

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: _____ Title: _____

Signature: *Jacqui Morris* Date: 4/15/21

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature:  _____ Date: 4/15/21

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary & Soil Closure Request

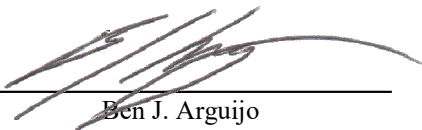
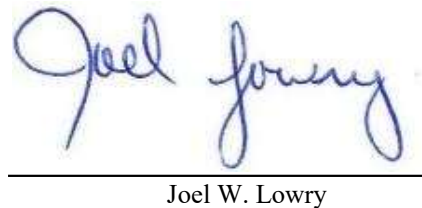
COG Operating, LLC Patron 23 Federal #004H

Eddy County, New Mexico
Unit Letter A, Section 23, Township 25 South, Range 29 East
Latitude 32.1220 North, Longitude 103.9486 West
NMOCD Reference No. nRM2034558291

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway
Lovington, New Mexico 88260


Ben J. Arguijo
Joel W. Lowry

Midland • San Antonio • Lubbock • Lovington • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Patron 23 Federal #004H (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.1220 Longitude: -103.9486

Provided GPS are in WGS84 format.

Site Name: Patron 23 Federal #004H	Site Type: Tank Battery
Date Release Discovered: 11/15/2020	API # (if applicable): 30-015-42451

Unit Letter	Section	Township	Range	County
A	23	25S	29E	Eddy

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

Nature and Volume of Release

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 74	Volume Recovered (bbls) 70
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	☒ Yes ☐ No ☐ N/A
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

The release was caused by improper valve positioning, and a load line was left open. The release affected an area of the caliche pad measuring approximately 15,905 square feet. A vacuum truck was dispatched to remove all free-standing fluids.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on February 24, 2021, an investigative soil boring/temporary monitor well was drilled at the Site in an effort to determine if shallow groundwater is present in the area. The investigative soil bore was advanced to a total depth of approximately 105 feet below ground surface (bgs) and left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil bore or prior to plugging and abandonment. The location of the soil bore is depicted in Figure 2. A drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?	>105'	
Did the 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 any 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 the 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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>105'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 INITIAL SITE ASSESSMENT

On January 5, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 18 delineation soil samples (NH @ 0"-6" Center, NH @ 1', EH @ 0"-6" Center, EH @ 1', SH @ 0"-6" Center, SH @ 1', WH @ 0"-6" Center, WH @ 1', SP @ 0"-6" Center, SP @ 1', SP2 @ 0"-6" Center, SP2 @ 1', SP3 @ 0"-6" Center, SP3 @ 1', SP4 @ 0"-6" Center, SP4 @ 1', SP5 @ 0"-6" Center, and SP5 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond one (1) foot bgs, and the horizontal extent of impacted soil was adequately defined.

5.0 REMEDIATION ACTIVITIES SUMMARY

On March 1, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Etech also collected 16 confirmation soil samples (NW1, NW2, NW3, EW1, EW2, WW1, and FL1 @ 1' through FL10 @ 1') from the sidewalls and floor of the excavation. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On March 3, 2021, Etech collected seven (7) confirmation soil samples (EW3, WW2, and FL11 @ 1' through FL15 @ 1') from the sidewalls and floor of the excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On March 8, 2021, Etech collected 60 confirmation soil samples (EW4, SW1, SW2, SW3, WW3, FL16 @ 1' through FL40 @ 1', and FL41 @ 6" through FL70 @ 6") from the sidewalls and floor of the excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

The final dimensions of the excavation were approximately 170 feet in length, 42 to 190 feet in width, and six (6) inches to one (1) foot in depth. During the course of remediation activities, approximately 432 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal.

Soil sample locations and the extent of the excavation are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the Site are provided in Appendix D.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the production pad of an active tank battery facility. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to fit the needs of the facility. Final reclamation and re-vegetation will be conducted upon decommissioning and abandonment of the facility.

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Patron 23 Federal #004H Site.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

9.0 DISTRIBUTION

COG Operating, LLC

*600 West Illinois Avenue
Midland, TX 79701*

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

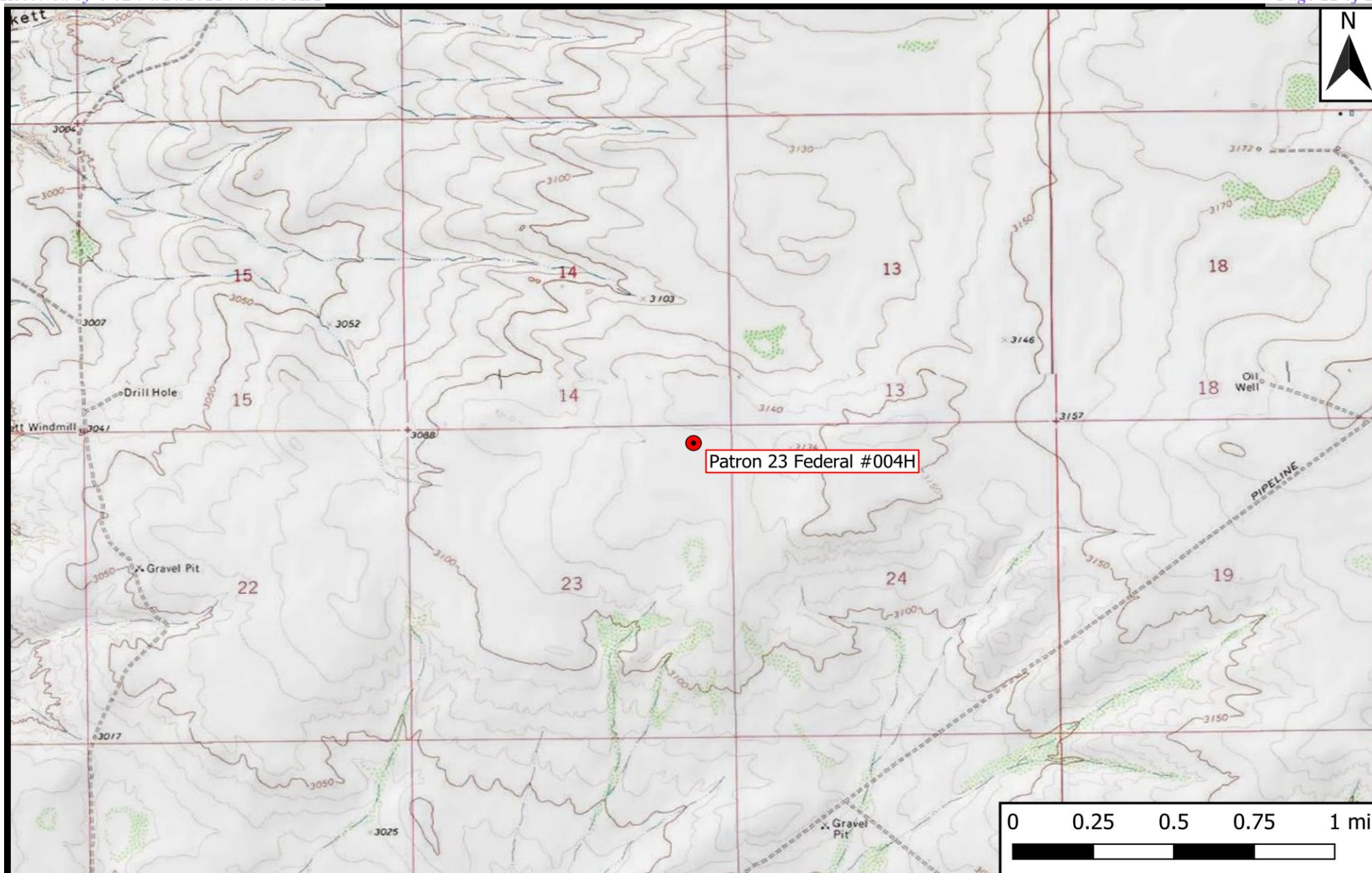
United States Department of the Interior

*Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220*

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
 COG Operating, LLC
 Patron 23 Federal #004H
 GPS: 32.1220, -103.9486
 Eddy County

ETECH
 Environmental & Safety Solutions, Inc.

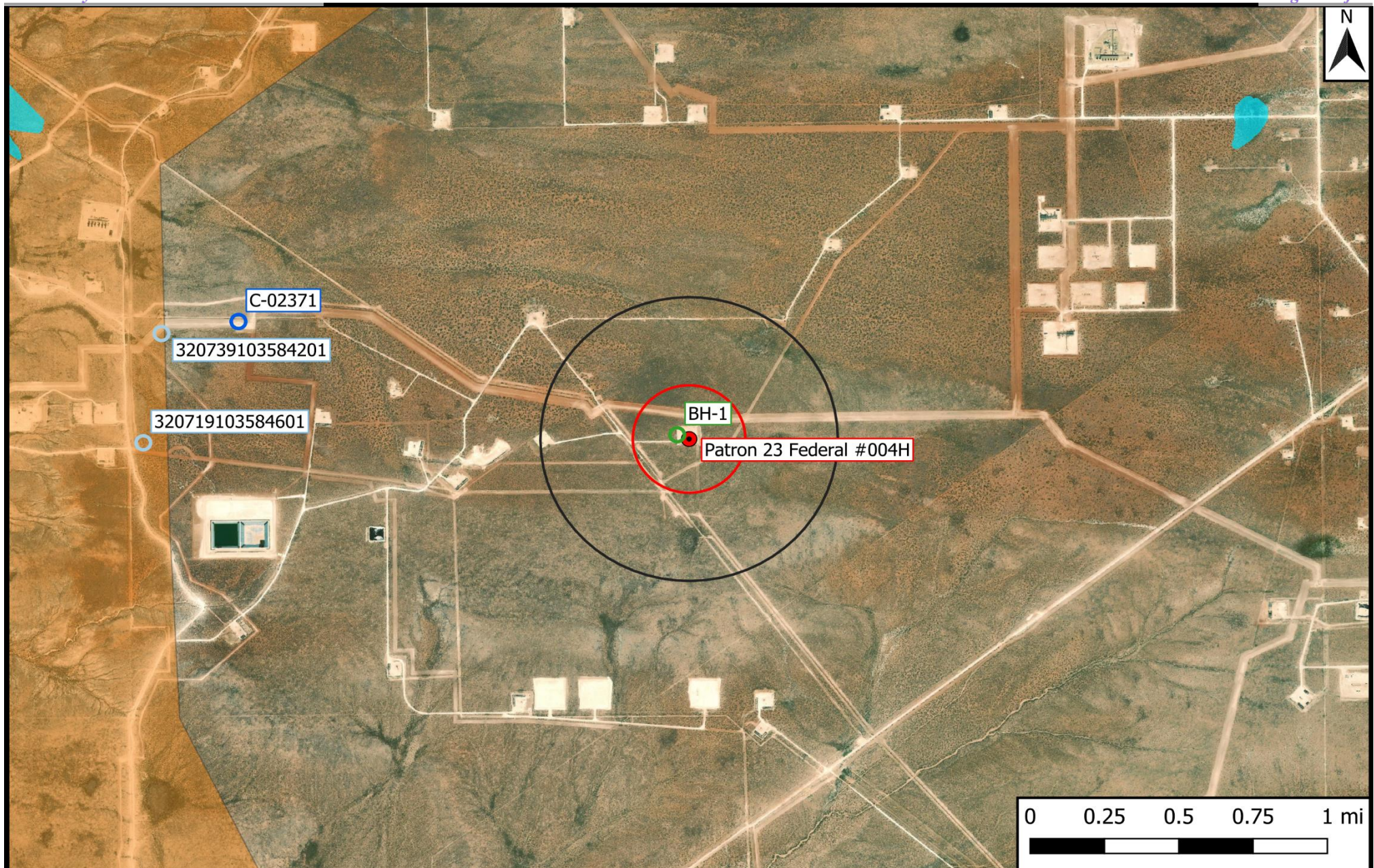
Drafted: bja

Checked: jwl

Date: 3/25/21

Figure 2

Aerial Proximity Map



Legend	 1,000-Ft Radius
● Site Location	 0.5-Mi Radius
○ Well - NMOSE	 1% Annual Flood Chance
○ Well - USGS	 Emergent/Forested Wetlands
○ Well - Investigative/Monitor	 Lake/Freshwater Pond
— Potash Mine Workings	 Medium/High Karst
	 Riverine

Figure 2
Aerial Proximity Map
COG Operating, LLC
Patron 23 Federal #004H
GPS: 32.122, -103.9486
Eddy County

eTECH
Environmental & Safety Solutions, Inc.

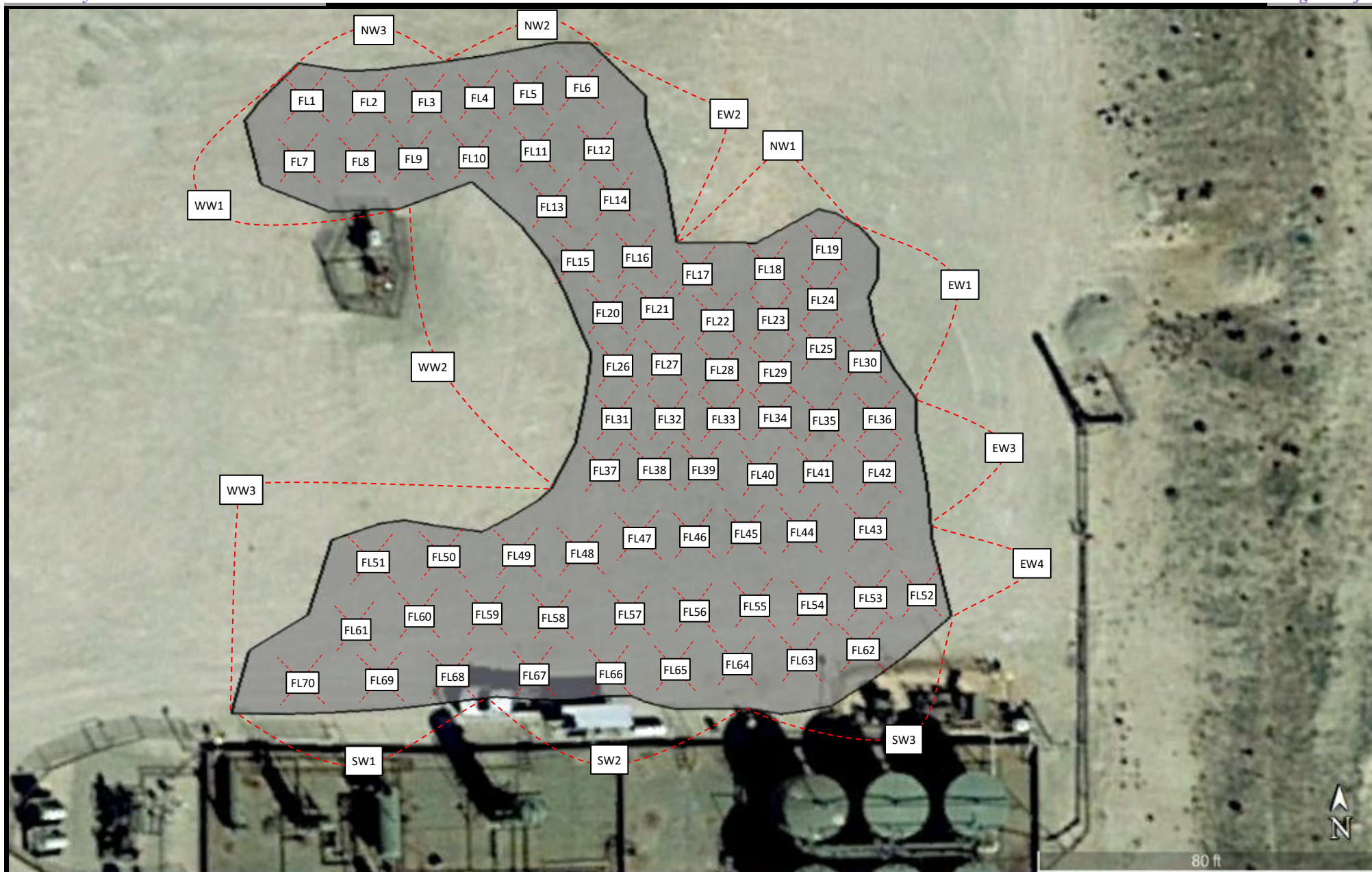
Drafted: bja

Checked: jwl

Date: 4/12/21

Figure 3

Site & Sample Location Map



Legend:

-  Excavation
 Composite Confirmation Sample

Figure 3

Site & Sample Location Map
 COG Operating, LLC
 Patron 23 Federal #004H
 GPS: 32.1220, -103.9486
 Eddy County

ETECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 4/9/21

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Patron 23 Federal #004H
NMOCD Ref. #: nRM2034558291

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
NH @ 0'-6" Center	1/5/2021	0''-6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	3,230
NH @ 1'	1/5/2021	1'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	55.5
EH @ 0'-6" Center	1/5/2021	0''-6"	In-Situ	<0.00200	<0.00200	<50.0	52.6	52.6	<50.0	52.6	275
EH @ 1'	1/5/2021	1'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	62.3
SH @ 0'-6" Center	1/5/2021	0''-6"	In-Situ	<0.00202	<0.00202	<49.9	60.8	60.8	<49.9	60.8	900
SH @ 1'	1/5/2021	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	103
WH @ 0'-6" Center	1/5/2021	0''-6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	570
WH @ 1'	1/5/2021	1'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	24.8
SP @ 0'-6" Center	1/5/2021	0''-6"	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	52,800
SP@ 1'	1/5/2021	1'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	419
SP2 @ 0'-6" Center	1/5/2021	0''-6"	Excavated	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	29,600
SP2@ 1'	1/5/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,020
SP3 @ 0'-6" Center	1/5/2021	0''-6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	24,800
SP3 @ 1'	1/5/2021	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	184
SP4 @ 0'-6" Center	1/5/2021	0''-6"	Excavated	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	249
SP4 @ 1'	1/5/2021	1'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	317
SP5 @ 0'-6" Center	1/5/2021	Excavated	Excavated	<0.00198	<0.00198	<49.9	157	157	<49.9	157	21,100
SP5 @ 1'	1/5/2021	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	424
Excavation Samples											
NW1	3/1/2021	0'-1'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,460
NW2	3/1/2021	0'-1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,920
NW3	3/1/2021	0'-1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	3,500
EW1	3/1/2021	0'-1'	In-Situ	<0.00198	<0.00198	69.6	<50.0	69.6	<50.0	69.6	6,750
EW2	3/1/2021	0'-1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	3,290
EW3	3/3/2021	0'-1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,340
EW4	3/8/2021	0''-6"	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	3,490
SW1	3/8/2021	0''-6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,840
SW2	3/8/2021	0''-6"	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	2,990
SW3	3/8/2021	0''-6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3,910
WW1	3/1/2021	0'-1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	5,970
WW2	3/3/2021	0'-1'	In-Situ	<0.00198	<0.00198	<50.0	54.4	54.4	<50.0	54.4	6,100
WW3	3/8/2021	0''-6"	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,930
FL1 @ 1'	3/1/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3,970
FL2 @ 1'	3/1/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,040
FL3 @ 1'	3/1/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	3,940
FL4 @ 1'	3/1/2021	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,710
FL5 @ 1'	3/1/2021	1'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	1,750
FL6 @ 1'	3/1/2021	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,260
FL7 @ 1'	3/1/2021	1'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	2,470
FL8 @ 1'	3/1/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,110

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Patron 23 Federal #004H
NMOCD Ref. #: nRM2034558291

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL9 @ 1'	3/1/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,840
FL10 @ 1'	3/1/2021	1'	In-Situ	<0.00199	<0.00199	101	<49.9	101	<49.9	101	3,040
FL11 @ 1'	3/3/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	1,550
FL12 @ 1'	3/3/2021	1'	In-Situ	<0.00202	0.00219	<49.8	<49.8	<49.8	<49.8	<49.8	1,410
FL13 @ 1'	3/3/2021	1'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	1,680
FL14 @ 1'	3/3/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	1,500
FL15 @ 1'	3/3/2021	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	2,260
FL16 @ 1'	3/8/2021	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	2,340
FL17 @ 1'	3/8/2021	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,310
FL18 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	2,310
FL19 @ 1'	3/8/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,530
FL20 @ 1'	3/8/2021	1'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	2,230
FL21 @ 1'	3/8/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,150
FL22 @ 1'	3/8/2021	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	2,130
FL23 @ 1'	3/8/2021	1'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	1,970
FL24 @ 1'	3/8/2021	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,880
FL25 @ 1'	3/8/2021	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	2,490
FL26 @ 1'	3/8/2021	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	2,440
FL27 @ 1'	3/8/2021	1'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	2,110
FL28 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,310
FL29 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	2,210
FL30 @ 1'	3/8/2021	1'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,990
FL31 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,090
FL32 @ 1'	3/8/2021	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	1,980
FL33 @ 1'	3/8/2021	1'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	1,920
FL34 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,050
FL35 @ 1'	3/8/2021	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	2,090
FL36 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,840
FL37 @ 1'	3/8/2021	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	2,180
FL38 @ 1'	3/8/2021	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,080
FL39 @ 1'	3/8/2021	1'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,930
FL40 @ 1'	3/8/2021	1'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	3,660
FL41 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	2,960
FL42 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3,180
FL43 @ 6"	3/8/2021	6"	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	3,100
FL44 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,100
FL45 @ 6"	3/8/2021	6"	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	2,720
FL46 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,730
FL47 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,640
FL48 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,400
FL49 @ 6"	3/8/2021	6"	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	2,870

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Patron 23 Federal #004H
NMOCD Ref. #: nRM2034558291

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL50 @ 6"	3/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	2,250
FL51 @ 6"	3/8/2021	6"	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	1,740
FL52 @ 6"	3/8/2021	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,720
FL53 @ 6"	3/8/2021	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	2,030
FL54 @ 6"	3/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	2,020
FL55 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,100
FL56 @ 6"	3/8/2021	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	3,120
FL57 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,990
FL58 @ 6"	3/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	3,510
FL59 @ 6"	3/8/2021	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	3,170
FL60 @ 6"	3/8/2021	6"	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	3,650
FL61 @ 6"	3/8/2021	6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	3,480
FL62 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3,580
FL63 @ 6"	3/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	3,190
FL64 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,900
FL65 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,960
FL66 @ 6"	3/8/2021	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	3,770
FL67 @ 6"	3/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	3,890
FL68 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	4,070
FL69 @ 6"	3/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	3,550
FL70 @ 6"	3/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,850

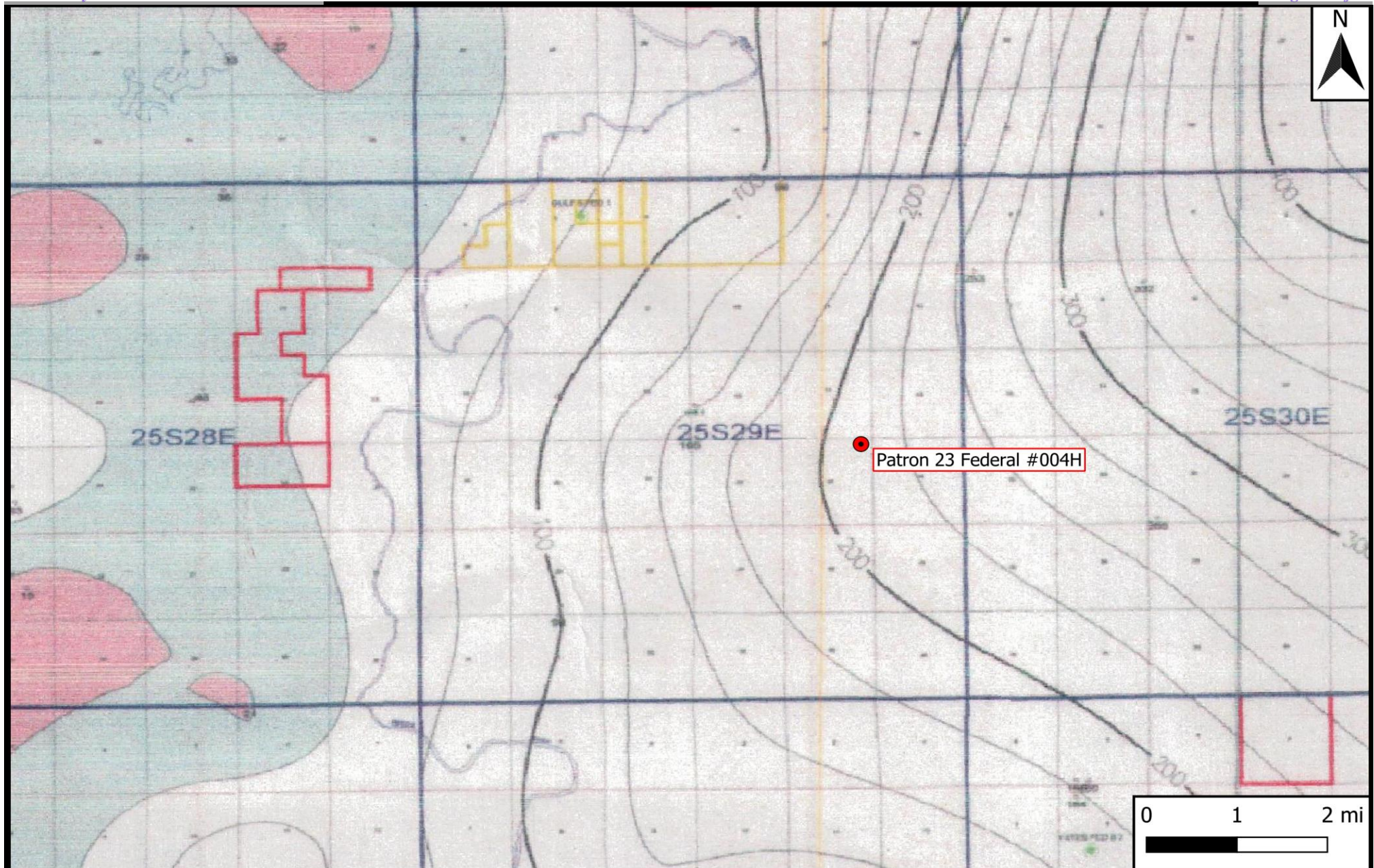
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
COG Operating, LLC
Patron 23 Federal #004H
GPS: 32.1220, -103.9486
Eddy County



Drafted: bja

Checked: jwl

Date: 3/25/21



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 02371		C	ED	2	3	15	25S	29E		596741	3555106*	2528	200	60	140
C 02680		CUB	ED	2	3	15	25S	29E		596741	3555106*	2528	200		

Average Depth to Water: **60 feet**

Minimum Depth: **60 feet**

Maximum Depth: **60 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 599181

Northing (Y): 3554442.51

Radius: 3220
(2 miles)

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/5/21 8:07 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02371	2	3	15	25S	29E	596741	3555106*	

x

Driller License:	1259	Driller Company:	CAMPBELL DRILLING
Driller Name:	CAMPBELL, MICHAEL R.		
Drill Start Date:	01/12/1995	Drill Finish Date:	01/24/1995
Log File Date:	02/01/1995	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	7.00	Depth Well:	200 feet
		Depth Water:	60 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	162	200	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	140	200

x

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/5/21 8:08 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)		
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02680	2	3	15	25S	29E	596741	3555106*	

x

Driller License:**Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:** 04/30/1964**Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 6.00**Depth Well:** 200 feet**Depth Water:**

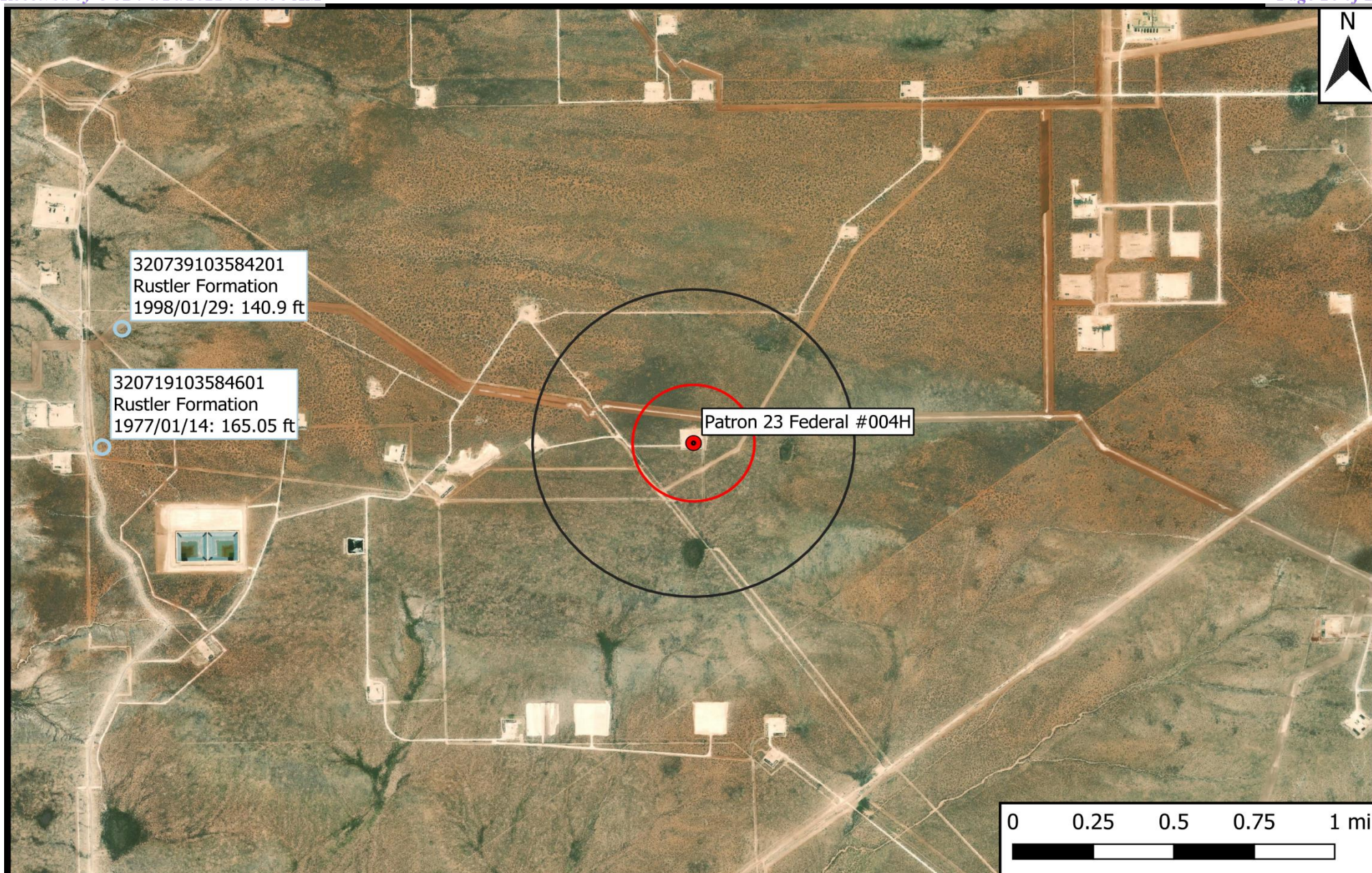
x

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/5/21 8:08 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- 1,000-Ft Radius
- 0.5-Mi Radius

Figure 5

USGS Well Proximity Map
 COG Operating, LLC
 Patron 23 Federal #004H
 GPS: 32.1220, -103.9486
 Eddy County



Drafted: mag

Checked: jwl

Date: 4/8/21



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Data Category: Geographic Area:

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Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 320719103584601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico

Latitude 32°07'19", Longitude 103°58'46" NAD27

Land-surface elevation 3,042 feet above NAVD88

The depth of the well is 200 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1958-08-19			D	72019	170.14			1	Z		A
1958-10-23			D	72019	170.80			1	Z		A
1975-12-09			D	72019	164.95			1	S		A
1976-01-16			D	72019	167.12			1	S		A
1977-01-14			D	72019	165.05			1	S		A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Last Modified: 2021-03-30 16:46:14 EDT

0.34 0.29 nadww02





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320739103584201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico

Latitude 32°07'39", Longitude 103°58'42" NAD27

Land-surface elevation 3,017 feet above NAVD88

The depth of the well is 192 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-01			D 72019	140.40			1	Z			A
1987-10-20			D 72019	140.33			1	Z			A
1992-11-06			D 72019	140.81			1	S			A
1998-01-29			D 72019	140.90			1	S			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-03-30 16:48:59 EDT

0.33 0.28 nadww02



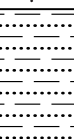
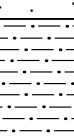
Appendix B

Field Data & Soil Profile Logs

Soil Boring/Temporary Monitor Well BH-1

Company: COG Operating, LLC	Well/Borehole ID: BH-1	Drilling Company: Scarborough Drilling, Inc.
Site: Patron 23 Federal #004H	Coordinates (NAD 83): 32.122593,-103.949262	Driller: L. Scarborough
NMOCD Reference #: nRM2034558291	Drilling Date: 2/24/2021	Drilling Method: Air Rotary
Location: Eddy Co., NM	Depth of Boring (ft): 105	Logged By: L. Scarborough
PLSS: UL 'A' (NE/NE), Sec. 23, T25S, R29E	Depth to Groundwater (ft): >105	Drafted By: B. Arguijo
	Plugging Date: 2/27/2021	Draft Date: 4/9/2021

Completion: N/A	Casing: N/A	Screen: N/A
Comments: N/A		

Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab	PID	Well Construction
5			Caliche Topsoil	-	-	-	 Open Hole, No Casing
10				-	-	-	
15			Caliche	-	-	-	
20				-	-	-	
25				-	-	-	
30			Sand	-	-	-	
35				-	-	-	
40				-	-	-	
45			Sand with w/ sandy shale streaks	-	-	-	
50				-	-	-	
55				-	-	-	
60				-	-	-	
65				-	-	-	
70			Sand	-	-	-	
75				-	-	-	
80				-	-	-	
85			Sandy shale	-	-	-	
90				-	-	-	
95				-	-	-	
100				-	-	-	
105				-	-	-	
110			Notes: Lines between material types represent approximate boundaries. Actual transitions may be gradual.				
115							

Disclaimer This bore log is intended for environmental not geotechnical purposes.



Sample Log

Date: 1-5-21

Project: Patron 23 Federal #004H

Project Number: 13625

Latitude: 32.122

Longitude: -103.9486

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = 5W #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date:

2/12/21

Project: Patron 23 Federal #004H

Project Number: 13625

Latitude: 32.122

Longitude: -103.9486

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 3-1-21Project: Patron 23 Feb 44Project Number: 13625

Latitude: _____

Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@1'			
FL2@1'			
FL3@1'			
FL4@1'			
FL5@1'			
FL6@1'			
FL7@1'			
FL8@1'			
FL9@1'			
FL10@1'			
EW1			
EW2			
NW1			
NW2			
NW3			
WW1			
WW2	-	5992	
EW3	-	2088	
FL11@1'	-	1740	
FL12@1'	-	1628	
FL13@1'	-	1864	
FL14@1'	-	1740	
FL15@1'	-	1864	
EW4		2572	
NW3		1740	
SW1		3064	
SW2		3064	
SW3		2308	
FL16@1'	-	1988	
FL17@1'	-	1740	
FL18@1'	-	1740	
FL19@1'	-	1860	
FL20@1'	-	1988	
FL21@1'	-	1860	
FL22@1'	-	1860	
FL23@1'	-	2440	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Project: Patron 23 Fed 4H Date: 3/8/21
Project Number: 13625 Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 24 @ 1'	-	2124	
FL 25 @ 1'	-	2124	
FL 26 @ 1'	-	2276	
FL 27 @ 1'	-	1988	
FL 28 @ 1'	-	1988	
FL 29 @ 1'	-	1988	
FL 30 @ 1'	-	1632	
FL 31 @ 1'	-	1582	
FL 32 @ 1'	-	1632	
FL 33 @ 1'	-	1860	
FL 34 @ 1'	-	1988	
FL 35 @ 1'	-	1988	
FL 36 @ 1'	-	1860	
FL 37 @ 1'	-	1988	
FL 38 @ 1'	-	1860	
FL 39 @ 1'	-	1740	
FL 40 @ 1'	-	1740	
FL 41 @ 6"	-	1632	
FL 42 @ 6"	-	1740	
FL 43 @ 6"	-	2124	
FL 44 @ 6"	-	2124	
FL 45 @ 6"	-	2276	
FL 46 @ 6"	-	2440	
FL 47 @ 6"	-	2440	
FL 48 @ 6"	-	2276	
FL 49 @ 6"	-	2276	
FL 50 @ 6"	-	2124	
FL 51 @ 6"	-	1988	
FL 52 @ 6"	-	1988	
FL 53 @ 6"	-	2124	
FL 54 @ 6"	-	2276	
FL 55 @ 6"	-	2276	
FL 56 @ 6"	-	2440	
FL 57 @ 6"	-	2440	
FL 58 @ 6"	-	1988	
FL 59 @ 6"	-	1988	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4' R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Sample Log

Date: 3/8/21

Project: Patron 23 Feb 4H

Project Number: 13625

Latitude:

Longitude:

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or 5W #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Patron 23 Fed 4H

Project Id: 13625
Contact: PM
Project Location: Patron 23 Federal #004H

Date Received in Lab: Wed 01.06.2021 12:42
Report Date: 01.11.2021 10:10
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683555-001	683555-002	683555-003	683555-004	683555-005	683555-006
	<i>Field Id:</i>	NH @ 0"-6" Center	NH @ 1'	EH @ 0"-6" Center	EH @ 1'	SH @ 0"-6" Center	SH @ 1'
	<i>Depth:</i>	0-6 In	1- ft	0-6 In	1- ft	0-6 In	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15
	<i>Analyzed:</i>	01.07.2021 02:30	01.07.2021 02:51	01.07.2021 03:12	01.07.2021 03:32	01.07.2021 03:53	01.07.2021 04:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00400 0.00400	<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15
	<i>Analyzed:</i>	01.08.2021 14:27	01.08.2021 13:35	01.08.2021 14:32	01.08.2021 14:37	01.08.2021 14:43	01.08.2021 14:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3230 24.9	55.5 4.98	275 5.05	62.3 5.05	900 5.00	103 4.97
TPH by SW8015 Mod	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 12:34	01.07.2021 13:40	01.07.2021 14:57	01.07.2021 15:19	01.07.2021 15:40	01.07.2021 16:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	52.6 50.0	<49.9 49.9	60.8 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	52.6 50.0	<49.9 49.9	60.8 49.9	<50.0 50.0

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Certificate of Analysis Summary 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Patron 23 Fed 4H

Project Id: 13625
Contact: PM
Project Location: Patron 23 Federal #004H

Date Received in Lab: Wed 01.06.2021 12:42
Report Date: 01.11.2021 10:10
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683555-007	683555-008	683555-009	683555-010	683555-011	683555-012
	<i>Field Id:</i>	WH @ 0"-6" Center	WH @ 1'	SP @ 0"-6" Center	SP@ 1'	SP2 @ 0"-6" Center	SP2@ 1'
	<i>Depth:</i>	0-6 In	1- ft	0-6 In	1- ft	0-6 In	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15
	<i>Analyzed:</i>	01.07.2021 04:34	01.07.2021 04:55	01.07.2021 05:16	01.07.2021 05:36	01.07.2021 07:00	01.07.2021 07:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00400 0.00400	<0.00402 0.00402	<0.00404 0.00404	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15
	<i>Analyzed:</i>	01.08.2021 15:03	01.08.2021 15:09	01.08.2021 16:34	01.08.2021 16:39	01.08.2021 16:44	01.08.2021 16:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		570 5.00	24.8 5.00	52800 249	419 5.02	29600 253	2020 25.0
TPH by SW8015 Mod	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 16:58	01.07.2021 17:19	01.07.2021 17:41	01.07.2021 18:02	01.07.2021 18:45	01.07.2021 19:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

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Certificate of Analysis Summary 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Patron 23 Fed 4H

Project Id: 13625
Contact: PM
Project Location: Patron 23 Federal #004H

Date Received in Lab: Wed 01.06.2021 12:42
Report Date: 01.11.2021 10:10
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683555-013	683555-014	683555-015	683555-016	683555-017	683555-018
	<i>Field Id:</i>	SP3 @ 0"-6" Center	SP3 @ 1'	SP4 @ 0"-6" Center	SP4 @ 1'	SP5 @ 0"-6" Center	SP5 @ 1'
	<i>Depth:</i>	0-6 In	1- ft	0-6 In	1- ft	0-6 In	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15	01.06.2021 14:15
	<i>Analyzed:</i>	01.07.2021 07:41	01.07.2021 08:02	01.07.2021 08:22	01.07.2021 08:43	01.07.2021 09:04	01.07.2021 09:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402	<0.00397 0.00397	<0.00396 0.00396	<0.00396 0.00396
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:15	01.08.2021 11:25	01.08.2021 11:25	01.08.2021 11:25
	<i>Analyzed:</i>	01.08.2021 17:00	01.08.2021 16:54	01.08.2021 17:05	01.08.2021 19:30	01.08.2021 19:45	01.08.2021 19:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		24800 252	184 4.95	249 4.96	317 4.95	21100 251	424 4.98
TPH by SW8015 Mod	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 19:27	01.07.2021 19:49	01.07.2021 20:10	01.07.2021 20:31	01.07.2021 20:53	01.07.2021 21:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9	157 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9	157 49.9	<50.0 50.0

BRL - Below Reporting Limit

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Analytical Report 683555

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Patron 23 Fed 4H

13625

01.11.2021

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.11.2021

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **683555**

Patron 23 Fed 4H

Project Address: Patron 23 Federal #004H

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683555. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683555 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-001
NH @ 1'	S	01.05.2021 00:00	1 ft	683555-002
EH @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-003
EH @ 1'	S	01.05.2021 00:00	1 ft	683555-004
SH @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-005
SH @ 1'	S	01.05.2021 00:00	1 ft	683555-006
WH @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-007
WH @ 1'	S	01.05.2021 00:00	1 ft	683555-008
SP @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-009
SP@ 1'	S	01.05.2021 00:00	1 ft	683555-010
SP2 @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-011
SP2@ 1'	S	01.05.2021 00:00	1 ft	683555-012
SP3 @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-013
SP3 @ 1'	S	01.05.2021 00:00	1 ft	683555-014
SP4 @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-015
SP4 @ 1'	S	01.05.2021 00:00	1 ft	683555-016
SP5 @ 0"-6" Center	S	01.05.2021 00:00	0 - 6 In	683555-017
SP5 @ 1'	S	01.05.2021 00:00		683555-018

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Patron 23 Fed 4H**

Project ID: 13625
Work Order Number(s): 683555

Report Date: 01.11.2021
Date Received: 01.06.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3146957 BTEX by EPA 8021B

Lab Sample ID 683555-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 683555-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018.

The Laboratory Control Sample for o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **NH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-001

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3230	24.9	mg/kg	01.08.2021 14:27		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 12:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 12:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 12:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 12:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	01.07.2021 12:34	
o-Terphenyl	84-15-1	97	%	70-130	01.07.2021 12:34	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **NH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-001

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 02:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 02:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 02:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 02:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 02:30	UX	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 02:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 02:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 02:30	
4-Bromofluorobenzene	460-00-4	96	%	70-130	01.07.2021 02:30	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **NH @ 1'**
 Lab Sample Id: 683555-002

Matrix: Soil
 Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:
 Basis: Wet Weight

Seq Number: 3147237

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.5	4.98	mg/kg	01.08.2021 13:35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 13:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 13:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 13:40	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 13:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	01.07.2021 13:40	
o-Terphenyl	84-15-1	98	%	70-130	01.07.2021 13:40	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **NH @ 1'**
Lab Sample Id: 683555-002

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 02:51	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 02:51	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 02:51	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 02:51	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 02:51	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 02:51	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 02:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.07.2021 02:51		
1,4-Difluorobenzene	540-36-3	93	%	70-130	01.07.2021 02:51		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **EH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-003

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	275	5.05	mg/kg	01.08.2021 14:32		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 14:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	52.6	50.0	mg/kg	01.07.2021 14:57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 14:57	U	1
Total TPH	PHC635	52.6	50.0	mg/kg	01.07.2021 14:57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	01.07.2021 14:57	
o-Terphenyl	84-15-1	81	%	70-130	01.07.2021 14:57	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **EH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-003

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 03:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 03:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 03:12	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.07.2021 03:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 03:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 03:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 03:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.07.2021 03:12		
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 03:12		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **EH @ 1'**
Lab Sample Id: 683555-004

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:
Basis: Wet Weight

Seq Number: 3147237

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.3	5.05	mg/kg	01.08.2021 14:37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 15:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 15:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 15:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 15:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	01.07.2021 15:19	
o-Terphenyl	84-15-1	84	%	70-130	01.07.2021 15:19	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **EH @ 1'**
 Lab Sample Id: 683555-004

Matrix: Soil
 Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
 Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 03:32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 03:32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 03:32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 03:32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 03:32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 03:32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 03:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	92	%	70-130	01.07.2021 03:32		
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.07.2021 03:32		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-005

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	900	5.00	mg/kg	01.08.2021 14:43		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 15:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.8	49.9	mg/kg	01.07.2021 15:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 15:40	U	1
Total TPH	PHC635	60.8	49.9	mg/kg	01.07.2021 15:40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.07.2021 15:40	
o-Terphenyl	84-15-1	83	%	70-130	01.07.2021 15:40	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-005

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 03:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 03:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 03:53	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.07.2021 03:53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 03:53	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 03:53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	01.07.2021 03:53	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 03:53	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SH @ 1'**
Lab Sample Id: 683555-006

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:
Basis: Wet Weight

Seq Number: 3147237

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	4.97	mg/kg	01.08.2021 14:48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 16:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 16:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 16:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 16:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	01.07.2021 16:37	
o-Terphenyl	84-15-1	87	%	70-130	01.07.2021 16:37	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SH @ 1'**
Lab Sample Id: 683555-006

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 04:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 04:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 04:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 04:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 04:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 04:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 04:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	01.07.2021 04:14	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 04:14	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **WH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-007

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	570	5.00	mg/kg	01.08.2021 15:03		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 16:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 16:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 16:58	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 16:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	01.07.2021 16:58	
o-Terphenyl	84-15-1	86	%	70-130	01.07.2021 16:58	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **WH @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-007

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 04:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 04:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 04:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 04:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 04:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 04:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 04:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.07.2021 04:34		
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.07.2021 04:34		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **WH @ 1'** Matrix: Soil Date Received: 01.06.2021 12:42
 Lab Sample Id: 683555-008 Date Collected: 01.05.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 01.08.2021 11:15 % Moisture:
 Seq Number: 3147237 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.8	5.00	mg/kg	01.08.2021 15:09		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 01.07.2021 11:00 % Moisture:
 Seq Number: 3147158 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 17:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 17:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 17:19	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 17:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-130	01.07.2021 17:19		
o-Terphenyl	84-15-1	88	%	70-130	01.07.2021 17:19		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **WH @ 1'**
 Lab Sample Id: 683555-008

Matrix: Soil
 Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
 Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 04:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 04:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 04:55	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.07.2021 04:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 04:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 04:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 04:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	01.07.2021 04:55		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 04:55		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-009

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52800	249	mg/kg	01.08.2021 16:34		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 17:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 17:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 17:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 17:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	01.07.2021 17:41	
o-Terphenyl	84-15-1	88	%	70-130	01.07.2021 17:41	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-009

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 05:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 05:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 05:16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.07.2021 05:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 05:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 05:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 05:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.07.2021 05:16		
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 05:16		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP@ 1'** Matrix: Soil Date Received: 01.06.2021 12:42
 Lab Sample Id: 683555-010 Date Collected: 01.05.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 01.08.2021 11:15 % Moisture:
 Seq Number: 3147237 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	419	5.02	mg/kg	01.08.2021 16:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 01.07.2021 11:00 % Moisture:
 Seq Number: 3147158 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 18:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 18:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 18:02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 18:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.07.2021 18:02	
o-Terphenyl	84-15-1	94	%	70-130	01.07.2021 18:02	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP@ 1'**
Lab Sample Id: 683555-010

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 05:36	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 05:36	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 05:36	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 05:36	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 05:36	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 05:36	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 05:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	01.07.2021 05:36		
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.07.2021 05:36		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP2 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-011

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29600	253	mg/kg	01.08.2021 16:44		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 18:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 18:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 18:45	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 18:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	01.07.2021 18:45	
o-Terphenyl	84-15-1	89	%	70-130	01.07.2021 18:45	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP2 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-011

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 07:00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 07:00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 07:00	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.07.2021 07:00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 07:00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 07:00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 07:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 07:00	
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.07.2021 07:00	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP2@ 1'**
Lab Sample Id: 683555-012

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:
Basis: Wet Weight

Seq Number: 3147237

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2020	25.0	mg/kg	01.08.2021 16:49		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 19:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 19:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 19:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 19:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	01.07.2021 19:06	
o-Terphenyl	84-15-1	94	%	70-130	01.07.2021 19:06	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP2@ 1'**
 Lab Sample Id: 683555-012

Matrix: Soil
 Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
 Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 07:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 07:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 07:20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 07:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 07:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 07:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 07:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.07.2021 07:20		
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.07.2021 07:20		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP3 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-013

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24800	252	mg/kg	01.08.2021 17:00		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 19:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 19:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 19:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	01.07.2021 19:27	
o-Terphenyl	84-15-1	87	%	70-130	01.07.2021 19:27	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP3 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-013

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 07:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 07:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 07:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 07:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 07:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 07:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 07:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.07.2021 07:41		
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.07.2021 07:41		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP3 @ 1'**
Lab Sample Id: 683555-014

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:
Basis: Wet Weight

Seq Number: 3147237

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	184	4.95	mg/kg	01.08.2021 16:54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 19:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 19:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 19:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 19:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.07.2021 19:49	
o-Terphenyl	84-15-1	91	%	70-130	01.07.2021 19:49	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP3 @ 1'**
Lab Sample Id: 683555-014

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 08:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 08:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 08:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 08:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 08:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 08:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 08:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.07.2021 08:02	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.07.2021 08:02	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP4 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-015

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:15

% Moisture:

Seq Number: 3147237

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	249	4.96	mg/kg	01.08.2021 17:05		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 20:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 20:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 20:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 20:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.07.2021 20:10	
o-Terphenyl	84-15-1	89	%	70-130	01.07.2021 20:10	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP4 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-015

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 08:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 08:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 08:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 08:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 08:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 08:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 08:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.07.2021 08:22	
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.07.2021 08:22	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP4 @ 1'**
Lab Sample Id: 683555-016

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:25

% Moisture:
Basis: Wet Weight

Seq Number: 3147240

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	317	4.95	mg/kg	01.08.2021 19:30		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	01.07.2021 20:31	
o-Terphenyl	84-15-1	91	%	70-130	01.07.2021 20:31	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP4 @ 1'**
Lab Sample Id: 683555-016

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 08:43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 08:43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 08:43	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 08:43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 08:43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 08:43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 08:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.07.2021 08:43	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.07.2021 08:43	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP5 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-017

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:25

% Moisture:

Seq Number: 3147240

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21100	251	mg/kg	01.08.2021 19:45		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147158

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	157	49.9	mg/kg	01.07.2021 20:53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 20:53	U	1
Total TPH	PHC635	157	49.9	mg/kg	01.07.2021 20:53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	01.07.2021 20:53	
o-Terphenyl	84-15-1	93	%	70-130	01.07.2021 20:53	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP5 @ 0"-6" Center**

Matrix: Soil

Date Received: 01.06.2021 12:42

Lab Sample Id: 683555-017

Date Collected: 01.05.2021 00:00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:

Seq Number: 3146957

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 09:04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 09:04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 09:04	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.07.2021 09:04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 09:04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 09:04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 09:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	01.07.2021 09:04		
1,4-Difluorobenzene	540-36-3	94	%	70-130	01.07.2021 09:04		



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP5 @ 1'**
Lab Sample Id: 683555-018

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 01.08.2021 11:25

% Moisture:
Basis: Wet Weight

Seq Number: 3147240

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	424	4.98	mg/kg	01.08.2021 19:51		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 21:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 21:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 21:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 21:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	01.07.2021 21:15	
o-Terphenyl	84-15-1	93	%	70-130	01.07.2021 21:15	



Certificate of Analytical Results 683555

Etech Environmental & Safety Solution, Inc, Midland, TX

Patron 23 Fed 4H

Sample Id: **SP5 @ 1'**
Lab Sample Id: 683555-018

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.06.2021 12:42

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 01.06.2021 14:15

% Moisture:
Basis: Wet Weight

Seq Number: 3146957

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 09:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 09:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 09:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.07.2021 09:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 09:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 09:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 09:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 09:24		
4-Bromofluorobenzene	460-00-4	108	%	70-130	01.07.2021 09:24		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Etech Environmental & Safety Solution, Inc

Patron 23 Fed 4H

Analytical Method: Chloride by EPA 300

Seq Number: 3147237

Matrix: Solid

Prep Method: E300P

Date Prep: 01.08.2021

MB Sample Id: 7718725-1-BLK

LCS Sample Id: 7718725-1-BKS

LCSD Sample Id: 7718725-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	01.08.2021 13:25	

Analytical Method: Chloride by EPA 300

Seq Number: 3147240

Matrix: Solid

Prep Method: E300P

Date Prep: 01.08.2021

MB Sample Id: 7718726-1-BLK

LCS Sample Id: 7718726-1-BKS

LCSD Sample Id: 7718726-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	01.08.2021 19:19	

Analytical Method: Chloride by EPA 300

Seq Number: 3147237

Matrix: Soil

Prep Method: E300P

Date Prep: 01.08.2021

Parent Sample Id: 683555-002

MS Sample Id: 683555-002 S

MSD Sample Id: 683555-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.5	249	302	99	301	99	90-110	0	20	mg/kg	01.08.2021 13:40	

Analytical Method: Chloride by EPA 300

Seq Number: 3147237

Matrix: Soil

Prep Method: E300P

Date Prep: 01.08.2021

Parent Sample Id: 683555-006

MS Sample Id: 683555-006 S

MSD Sample Id: 683555-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	103	249	350	99	349	99	90-110	0	20	mg/kg	01.08.2021 14:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3147240

Matrix: Soil

Prep Method: E300P

Date Prep: 01.08.2021

Parent Sample Id: 683555-016

MS Sample Id: 683555-016 S

MSD Sample Id: 683555-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	317	248	570	102	570	102	90-110	0	20	mg/kg	01.08.2021 19:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3147240

Matrix: Soil

Prep Method: E300P

Date Prep: 01.08.2021

Parent Sample Id: 683559-008

MS Sample Id: 683559-008 S

MSD Sample Id: 683559-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	250	273	105	272	105	90-110	0	20	mg/kg	01.08.2021 20:48	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Etech Environmental & Safety Solution, Inc

Patron 23 Fed 4H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3147158

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.07.2021

MB Sample Id: 7718719-1-BLK

LCS Sample Id: 7718719-1-BKS

LCSD Sample Id: 7718719-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	861	86	890	89	70-130	3	20	mg/kg	01.07.2021 11:50	
Diesel Range Organics (DRO)	<50.0	1000	889	89	873	87	70-130	2	20	mg/kg	01.07.2021 11:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		94		92		70-130	%	01.07.2021 11:50
o-Terphenyl	98		90		86		70-130	%	01.07.2021 11:50

Analytical Method: TPH by SW8015 Mod

Seq Number: 3147158

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.07.2021

MB Sample Id: 7718719-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.07.2021 11:29	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3147158

Matrix: Soil

Prep Method: SW8015P

Date Prep: 01.07.2021

Parent Sample Id: 683555-001

MS Sample Id: 683555-001 S

MSD Sample Id: 683555-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	910	91	994	100	70-130	9	20	mg/kg	01.07.2021 12:56	
Diesel Range Organics (DRO)	<49.9	998	915	92	901	90	70-130	2	20	mg/kg	01.07.2021 12:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		100		70-130	%	01.07.2021 12:56
o-Terphenyl	92		92		70-130	%	01.07.2021 12:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146957

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.06.2021

MB Sample Id: 7718603-1-BLK

LCS Sample Id: 7718603-1-BKS

LCSD Sample Id: 7718603-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.100	100	70-130	1	35	mg/kg	01.07.2021 00:08	
Toluene	<0.00200	0.100	0.107	107	0.109	109	70-130	2	35	mg/kg	01.07.2021 00:08	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.0990	99	70-130	1	35	mg/kg	01.07.2021 00:08	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.196	98	70-130	2	35	mg/kg	01.07.2021 00:08	
o-Xylene	<0.00200	0.100	0.0954	95	0.0960	96	70-130	1	35	mg/kg	01.07.2021 00:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		96		95		70-130	%	01.07.2021 00:08
4-Bromofluorobenzene	111		103		104		70-130	%	01.07.2021 00:08

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Etech Environmental & Safety Solution, Inc

Patron 23 Fed 4H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146957

Parent Sample Id: 683555-001

Matrix: Soil

MS Sample Id: 683555-001 S

Prep Method: SW5035A

Date Prep: 01.06.2021

MSD Sample Id: 683555-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0827	84	0.0743	75	70-130	11	35	mg/kg	01.07.2021 00:49	
Toluene	<0.00198	0.0990	0.0852	86	0.0795	80	70-130	7	35	mg/kg	01.07.2021 00:49	
Ethylbenzene	<0.00198	0.0990	0.0826	83	0.0761	77	70-130	8	35	mg/kg	01.07.2021 00:49	
m,p-Xylenes	<0.00396	0.198	0.150	76	0.140	71	70-130	7	35	mg/kg	01.07.2021 00:49	
o-Xylene	<0.00198	0.0990	0.0746	75	0.0685	69	70-130	9	35	mg/kg	01.07.2021 00:49	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		96		70-130	%	01.07.2021 00:49
4-Bromofluorobenzene	103		101		70-130	%	01.07.2021 00:49

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 889-6701
 Atlanta, GA (770) 449-8800

Work Order No: 13625
683555

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	Sheldon Hitchcock
Company Name:	Etech Environmental & Safety	Company Name:	COG
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐	
State of Project:	
Reporting: Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		Patron 23 Fed 4H		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		13625		Routine:		☒												HNO3: HN					
Project Location:		Patron 23 Federal #004H		Rush:		☐												H2SO4: H2					
Sampler's Name:		Eric Mojica		Due Date:														HCL: HL					
PO #:																		None: NO					
SAMPLE RECEIPT		Temp Blank:		Yes ☐ No ☒		Wet Ice:		Yes ☒ No ☐														NaOH: Na	
Temperature (°C):		30/35		Thermometer ID														MeOH: Me					
Received Intact:		Yes ☒ No ☐		Correction Factor:		1.05														Zn Acetate+ NaOH: Zn			
Cooler Custody Seals:		Yes ☐ No ☒		Total Containers:																TAT starts the day received by the lab, if received by 4:30pm			
Sample Custody Seals:		Yes ☐ No ☒																					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005									Sample Comments					
NH e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓														
NH e 1'	S	1-5-21		1'	1	✓	✓		✓														
EH e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓														
EH e 1'	S	1-5-21		1'	1	✓	✓		✓														
SH e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓														
SH e 1'	S	1-5-21		1'	1	✓	✓		✓														
WH e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓														
WH e 1'	S	1-5-21		1'	1	✓	✓		✓														
SP l e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓														
SP l e 1'	S	1-5-21		1'	1	✓	✓		✓														

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 · Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Eric Mojica	[Signature]	1-5-21	2 [Signature]	J. Kramer	01/06/21
3			4		
5			6		1242



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No: 13625
603555

www.xenco.com Page 2 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	Sheldon Hitchcock
Company Name:	Etech Environmental & Safety	Company Name:	COG
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

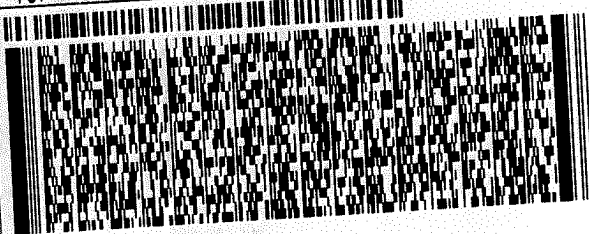
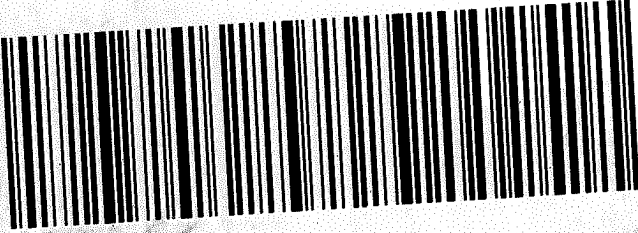
Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐	
State of Project:	
Reporting: Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		Routine: ☒														HNO3: HN					
Project Location:		Rush: ☐														H2SO4: H2					
Sampler's Name:		Due Date:														HCL: HL					
PO #:																None: NO					
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No													NaOH: Na			
Temperature (°C):		Thermometer ID																MeOH: Me			
Received Intact:																		Zn Acetate+ NaOH: Zn			
Cooler Custody Seals:		Correction Factor:																TAT starts the day received by the lab, if received by 4:30pm			
Sample Custody Seals:		Total Containers:																Sample Comments			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005												
SP 2 e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓												
SP 2 e 1'	S	1-5-21		1'	1	✓	✓		✓												
SP 3 e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓												
SP 3 e 1'	S	1-5-21		1'	1	✓	✓		✓												
SP 4 e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓												
SP 4 e 1'	S	1-5-21		1'	1	✓	✓		✓												
SP 5 e 0"-6" inches	S	1-5-21		0"-6"	1	✓	✓		✓												
SP 5 e 1'	S	1-5-21		2'	1	✓	✓		✓												

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 4634 / 246.4 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Eric Mojica		1-5-21	2	J Kramer	01/06/21
3			4		
5			6		1242

ORIGIN ID: H08A (675) 392-7650	SHIP DATE: 05JAN21 ACTWGT: 28.00 LB MAN CAD: 0103352/CAFE3313 DIMS: 18x16x12 IN
* MAIL SERVICES ETC 4008 N GRIMES HOBBS, NM 88240 UNITED STATES US	BILL RECIPIENT
TO XENCO HOLD FOR PICKUP XENCO HOLD FOR PICKUP 3600 S COUNTY RD MIDLAND TX 79706	
(432) 704-5440 INV: PO:	REF: DEPT:
	
FedEx Express 	
TRK# 9401 5656 1580 0201	WED - 06 JAN 4:30P STANDARD OVERNIGHT
41 MAFA	79706 TX-US LBB
	

Print # 155145-434 PRT EXP 01/21 **

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01.06.2021 12.42.00 PM

Work Order #: 683555

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

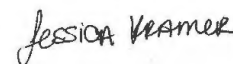
Checklist completed by:



Brianna Teel

Date: 01.06.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.06.2021



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-236-1
Laboratory Sample Delivery Group: 13625
Client Project/Site: Patron 23 Fed 4H

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/8/2021 5:36:40 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Laboratory Job ID: 890-236-1
SDG: 13625

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Qualifiers

Subcontract

Qualifier	Qualifier Description
U	Analyte was not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Job ID: 890-236-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-236-1

Receipt

The samples were received on 3/1/2021 4:23 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 5.0°C

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 1@ 1'

Lab Sample ID: 890-236-1

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 13:50	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 13:50	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 13:50	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	03/05/21 12:00	03/05/21 13:50	1
o-Terphenyl	102		70 - 135	03/05/21 12:00	03/05/21 13:50	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 09:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 09:06	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/03/21 17:00	03/04/21 09:06	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 09:06	1
Toluene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 09:06	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 09:06	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 09:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/03/21 17:00	03/04/21 09:06	1
4-Bromofluorobenzene	104		70 - 130	03/03/21 17:00	03/04/21 09:06	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3970		50.4		mg/kg		03/05/21 11:15	03/05/21 12:06	10

Client Sample ID: FL 2@ 1'

Lab Sample ID: 890-236-2

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 14:55	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 14:55	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 14:55	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135	03/05/21 12:00	03/05/21 14:55	1
o-Terphenyl	91		70 - 135	03/05/21 12:00	03/05/21 14:55	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:26	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/03/21 17:00	03/04/21 09:26	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:26	1
Toluene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:26	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:26	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:26	1

Eurofins Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 2@ 1'

Lab Sample ID: 890-236-2

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/03/21 17:00	03/04/21 09:26	1
4-Bromofluorobenzene	99		70 - 130	03/03/21 17:00	03/04/21 09:26	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		25.3		mg/kg		03/05/21 11:15	03/05/21 12:11	5

Client Sample ID: FL 3@ 1'

Lab Sample ID: 890-236-3

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 15:16	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 15:16	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 15:16	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	03/05/21 12:00	03/05/21 15:16	1
o-Terphenyl	98		70 - 135	03/05/21 12:00	03/05/21 15:16	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:46	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/03/21 17:00	03/04/21 09:46	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:46	1
Toluene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:46	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:46	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 09:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	86		70 - 130	03/03/21 17:00	03/04/21 09:46	1
4-Bromofluorobenzene	96		70 - 130	03/03/21 17:00	03/04/21 09:46	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3940		24.8		mg/kg		03/05/21 11:15	03/05/21 12:16	5

Client Sample ID: FL 4@ 1'

Lab Sample ID: 890-236-4

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 15:44	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 15:44	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 15:44	1
Total TPH	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 15:44	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 4@ 1'

Lab Sample ID: 890-236-4

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135	03/05/21 12:00	03/05/21 15:44	1
o-Terphenyl	95		70 - 135	03/05/21 12:00	03/05/21 15:44	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:07	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/03/21 17:00	03/04/21 10:07	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:07	1
Toluene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:07	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:07	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/03/21 17:00	03/04/21 10:07	1
4-Bromofluorobenzene	102		70 - 130	03/03/21 17:00	03/04/21 10:07	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		25.0		mg/kg		03/05/21 11:15	03/05/21 12:32	5

Client Sample ID: FL 5@ 1'

Lab Sample ID: 890-236-5

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/05/21 12:00	03/05/21 16:05	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/05/21 12:00	03/05/21 16:05	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/05/21 12:00	03/05/21 16:05	1
Total TPH	<49.8	U	49.8		mg/kg		03/05/21 12:00	03/05/21 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/05/21 12:00	03/05/21 16:05	1
o-Terphenyl	94		70 - 135	03/05/21 12:00	03/05/21 16:05	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/03/21 17:00	03/04/21 10:27	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:27	1
Toluene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:27	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:27	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 10:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/03/21 17:00	03/04/21 10:27	1
4-Bromofluorobenzene	101		70 - 130	03/03/21 17:00	03/04/21 10:27	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 5@ 1'

Lab Sample ID: 890-236-5

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		24.9		mg/kg		03/05/21 11:15	03/05/21 12:38	5

Client Sample ID: FL 6@ 1'

Lab Sample ID: 890-236-6

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 16:27	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 16:27	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 16:27	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135	03/05/21 12:00	03/05/21 16:27	1
o-Terphenyl	101		70 - 135	03/05/21 12:00	03/05/21 16:27	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 10:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 10:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/03/21 17:00	03/04/21 10:48	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 10:48	1
Toluene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 10:48	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 10:48	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/03/21 17:00	03/04/21 10:48	1
4-Bromofluorobenzene	99		70 - 130	03/03/21 17:00	03/04/21 10:48	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		49.5		mg/kg		03/05/21 11:15	03/05/21 12:43	10

Client Sample ID: FL 7@ 1'

Lab Sample ID: 890-236-7

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 16:48	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 16:48	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 16:48	1
Total TPH	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135	03/05/21 12:00	03/05/21 16:48	1
o-Terphenyl	93		70 - 135	03/05/21 12:00	03/05/21 16:48	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 7@ 1'

Lab Sample ID: 890-236-7

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 11:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 11:08	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/03/21 17:00	03/04/21 11:08	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 11:08	1
Toluene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 11:08	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 11:08	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/03/21 17:00	03/04/21 11:08	1
4-Bromofluorobenzene	105		70 - 130	03/03/21 17:00	03/04/21 11:08	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2470		25.2		mg/kg		03/05/21 11:15	03/05/21 12:48	5

Client Sample ID: FL 8@ 1'

Lab Sample ID: 890-236-8

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:09	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:09	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:09	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	03/05/21 12:00	03/05/21 17:09	1
o-Terphenyl	94		70 - 135	03/05/21 12:00	03/05/21 17:09	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:28	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/03/21 17:00	03/04/21 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:28	1
Toluene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:28	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:28	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/03/21 17:00	03/04/21 11:28	1
4-Bromofluorobenzene	100		70 - 130	03/03/21 17:00	03/04/21 11:28	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.01		mg/kg		03/05/21 11:15	03/05/21 12:54	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 9@ 1'

Lab Sample ID: 890-236-9

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:31	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:31	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:31	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/05/21 12:00	03/05/21 17:31	1
o-Terphenyl	91		70 - 135	03/05/21 12:00	03/05/21 17:31	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:49	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/03/21 17:00	03/04/21 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:49	1
Toluene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:49	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:49	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/03/21 17:00	03/04/21 11:49	1
4-Bromofluorobenzene	102		70 - 130	03/03/21 17:00	03/04/21 11:49	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2840		24.8		mg/kg		03/05/21 11:15	03/05/21 12:59	5

Client Sample ID: FL 10@ 1'

Lab Sample ID: 890-236-10

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 17:52	1
Gasoline Range Hydrocarbons (GRO)	101		49.9		mg/kg		03/05/21 12:00	03/05/21 17:52	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 17:52	1
Total TPH	101		49.9		mg/kg		03/05/21 12:00	03/05/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	03/05/21 12:00	03/05/21 17:52	1
o-Terphenyl	103		70 - 135	03/05/21 12:00	03/05/21 17:52	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 12:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 12:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/03/21 17:00	03/04/21 12:09	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 12:09	1
Toluene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 12:09	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 12:09	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 12:09	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 10@ 1'

Lab Sample ID: 890-236-10

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/03/21 17:00	03/04/21 12:09	1
4-Bromofluorobenzene	100		70 - 130	03/03/21 17:00	03/04/21 12:09	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3040		24.9		mg/kg		03/05/21 11:15	03/05/21 16:02	5

Client Sample ID: EW1

Lab Sample ID: 890-236-11

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 18:35	1
Gasoline Range Hydrocarbons (GRO)	69.6		50.0		mg/kg		03/05/21 12:00	03/05/21 18:35	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 18:35	1
Total TPH	69.6		50.0		mg/kg		03/05/21 12:00	03/05/21 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	03/05/21 12:00	03/05/21 18:35	1
o-Terphenyl	104		70 - 135	03/05/21 12:00	03/05/21 18:35	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 13:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 13:55	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/03/21 17:00	03/04/21 13:55	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 13:55	1
Toluene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 13:55	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 13:55	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/03/21 17:00	03/04/21 13:55	1
4-Bromofluorobenzene	98		70 - 130	03/03/21 17:00	03/04/21 13:55	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6750		50.5		mg/kg		03/05/21 11:15	03/05/21 16:07	10

Client Sample ID: EW2

Lab Sample ID: 890-236-12

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 18:56	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 18:56	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 18:56	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 18:56	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: EW2

Lab Sample ID: 890-236-12

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	03/05/21 12:00	03/05/21 18:56	1
o-Terphenyl	99		70 - 135	03/05/21 12:00	03/05/21 18:56	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 15:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 15:37	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/03/21 17:00	03/04/21 15:37	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 15:37	1
Toluene	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 15:37	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 15:37	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/03/21 17:00	03/04/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	03/03/21 17:00	03/04/21 15:37	1
4-Bromofluorobenzene	149		70 - 130	03/03/21 17:00	03/04/21 15:37	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3290		25.2		mg/kg		03/05/21 11:15	03/05/21 16:23	5

Client Sample ID: NW1

Lab Sample ID: 890-236-13

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 19:17	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 19:17	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 19:17	1
Total TPH	<49.9	U	49.9		mg/kg		03/05/21 12:00	03/05/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	03/05/21 12:00	03/05/21 19:17	1
o-Terphenyl	98		70 - 135	03/05/21 12:00	03/05/21 19:17	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 16:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 16:30	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/03/21 17:00	03/04/21 16:30	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 16:30	1
Toluene	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 16:30	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 16:30	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/03/21 17:00	03/04/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/03/21 17:00	03/04/21 16:30	1
4-Bromofluorobenzene	108		70 - 130	03/03/21 17:00	03/04/21 16:30	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: NW1

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-13

Matrix: Solid

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		25.2		mg/kg		03/05/21 11:15	03/05/21 16:28	5

Client Sample ID: NW2

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-14

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 19:39	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 19:39	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 19:39	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 135	03/05/21 12:00	03/05/21 19:39	1
o-Terphenyl	116		70 - 135	03/05/21 12:00	03/05/21 19:39	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 16:50	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/03/21 17:00	03/04/21 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 16:50	1
Toluene	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 16:50	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 16:50	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/03/21 17:00	03/04/21 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	97		70 - 130	03/03/21 17:00	03/04/21 16:50	1
4-Bromofluorobenzene	120		70 - 130	03/03/21 17:00	03/04/21 16:50	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		25.2		mg/kg		03/05/21 11:15	03/05/21 16:34	5

Client Sample ID: NW3

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-15

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:00	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:00	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:00	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	03/05/21 12:00	03/05/21 20:00	1
o-Terphenyl	96		70 - 135	03/05/21 12:00	03/05/21 20:00	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: NW3

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-15

Matrix: Solid

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/03/21 17:00	03/04/21 17:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/03/21 17:00	03/04/21 17:10	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/03/21 17:00	03/04/21 17:10	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/03/21 17:00	03/04/21 17:10	1
Toluene	<0.00201	U	0.00201		mg/kg		03/03/21 17:00	03/04/21 17:10	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/03/21 17:00	03/04/21 17:10	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/03/21 17:00	03/04/21 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	96		70 - 130	03/03/21 17:00	03/04/21 17:10	1
4-Bromofluorobenzene	103		70 - 130	03/03/21 17:00	03/04/21 17:10	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		25.0		mg/kg		03/05/21 11:15	03/05/21 16:39	5

Client Sample ID: WW1

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-16

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:21	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:21	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:21	1
Total TPH	<50.0	U	50.0		mg/kg		03/05/21 12:00	03/05/21 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135	03/05/21 12:00	03/05/21 20:21	1
o-Terphenyl	94		70 - 135	03/05/21 12:00	03/05/21 20:21	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 17:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 17:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/03/21 17:00	03/04/21 17:31	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 17:31	1
Toluene	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 17:31	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 17:31	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/03/21 17:00	03/04/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/03/21 17:00	03/04/21 17:31	1
4-Bromofluorobenzene	101		70 - 130	03/03/21 17:00	03/04/21 17:31	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5970		49.7		mg/kg		03/05/21 11:15	03/05/21 16:44	10

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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO	OTPH
		(70-135)	(70-135)
890-236-1	FL 1@ 1'	98	102
890-236-2	FL 2@ 1'	91	91
890-236-3	FL 3@ 1'	100	98
890-236-4	FL 4@ 1'	93	95
890-236-5	FL 5@ 1'	90	94
890-236-6	FL 6@ 1'	91	101
890-236-7	FL 7@ 1'	89	93
890-236-8	FL 8@ 1'	95	94
890-236-9	FL 9@ 1'	90	91
890-236-10	FL 10@ 1'	97	103
890-236-11	EW1	101	104
890-236-12	EW2	98	99
890-236-13	NW1	98	98
890-236-14	NW2	112	116
890-236-15	NW3	95	96
890-236-16	WW1	93	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: BTEX 8021 - Volatiles by 8021

Matrix: SOIL

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB	
		(70-130)	
689953-001 S	Matrix Spike	112	
689953-001 SD	Matrix Spike Duplicate	110	
7722462-1-BKS	Lab Control Sample	102	
7722462-1-BLK	Method Blank	94	
7722462-1-BSD	Lab Control Sample Dup	103	
Surrogate Legend			
BFB = 4-Bromofluorobenzene			

Method: BTEX 8021 - Volatiles by 8021

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB	DFBZ
		(70-130)	(70-130)
890-236-1	FL 1@ 1'	104	95
890-236-2	FL 2@ 1'	99	95
890-236-3	FL 3@ 1'	96	86
890-236-4	FL 4@ 1'	102	93
890-236-5	FL 5@ 1'	101	92
890-236-6	FL 6@ 1'	99	93
890-236-7	FL 7@ 1'	105	94
890-236-8	FL 8@ 1'	100	94
890-236-9	FL 9@ 1'	102	94

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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-236-10	FL 10@ 1'	100	95
890-236-11	EW1	98	94
890-236-12	EW2	149	102
890-236-13	NW1	108	95
890-236-14	NW2	120	97
890-236-15	NW3	103	96
890-236-16	WW1	101	93

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO

Lab Sample ID: 7722735-1-BLK

Matrix: SOIL

Analysis Batch: 3152838

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152838_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/05/21 12:00	03/05/21 12:46	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/05/21 12:00	03/05/21 12:46	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/05/21 12:00	03/05/21 12:46	1

Lab Sample ID: 7722735-1-BKS

Matrix: SOIL

Analysis Batch: 3152838

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152838_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	1000		mg/kg		100	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	845		mg/kg		85	70 - 135

Lab Sample ID: 7722735-1-BSD

Matrix: SOIL

Analysis Batch: 3152838

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152838_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (DRO)	1000	1000		mg/kg		100	70 - 135	0	20
Gasoline Range Hydrocarbons (GRO)	1000	855		mg/kg		86	70 - 135	1	20

Lab Sample ID: 689953-001 S

Matrix: SOIL

Analysis Batch: 3152838

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3152838_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<49.9		998	1110		mg/kg		111	70 - 135
Gasoline Range Hydrocarbons (GRO)	<49.9		998	1020		mg/kg		102	70 - 135

Lab Sample ID: 689953-001 SD

Matrix: SOIL

Analysis Batch: 3152838

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152838_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (DRO)	<49.9		997	1160		mg/kg		116	70 - 135	4	20
Gasoline Range Hydrocarbons (GRO)	<49.9		997	1060		mg/kg		106	70 - 135	4	20

Method: BTEX 8021 - Volatiles by 8021

Lab Sample ID: 7722462-1-BLK

Matrix: SOIL

Analysis Batch: 3152581

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152581_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/03/21 17:00	03/04/21 08:44	1
Ethylbenzene	<.002	U	.002		mg/kg		03/03/21 17:00	03/04/21 08:44	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/03/21 17:00	03/04/21 08:44	1
o-Xylene	<.002	U	.002		mg/kg		03/03/21 17:00	03/04/21 08:44	1

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 7722462-1-BLK

Matrix: SOIL

Analysis Batch: 3152581

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152581_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<.002	U	.002		mg/kg		03/03/21 17:00	03/04/21 08:44	1
Surrogate	%Recovery	BLANK Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130				03/03/21 17:00	03/04/21 08:44	1

Lab Sample ID: 7722462-1-BKS

Matrix: SOIL

Analysis Batch: 3152581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152581_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.103		mg/kg		103	70 - 130
Ethylbenzene	.1	0.103		mg/kg		103	71 - 129
m,p-Xylenes	.2	0.209		mg/kg		105	70 - 135
o-Xylene	.1	0.106		mg/kg		106	71 - 133
Toluene	.1	0.0976		mg/kg		98	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	102		70 - 130				

Lab Sample ID: 7722462-1-BSD

Matrix: SOIL

Analysis Batch: 3152581

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152581_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	.1	0.102		mg/kg		102	70 - 130	1	35
Ethylbenzene	.1	0.100		mg/kg		100	71 - 129	3	35
m,p-Xylenes	.2	0.197		mg/kg		99	70 - 135	6	35
o-Xylene	.1	0.102		mg/kg		102	71 - 133	4	35
Toluene	.1	0.0950		mg/kg		95	70 - 130	3	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	103		70 - 130						

Lab Sample ID: 689953-001 S

Matrix: SOIL

Analysis Batch: 3152581

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3152581_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<.00199		.1	0.0733		mg/kg		73	70 - 130
Ethylbenzene	<.00199		.1	0.0764		mg/kg		76	71 - 129
m,p-Xylenes	<.00398		.201	0.157		mg/kg		78	70 - 135
o-Xylene	<.00199		.1	0.0790		mg/kg		79	71 - 133
Toluene	<.00199		.1	0.0703		mg/kg		70	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene	112		70 - 130						

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 689953-001 SD

Matrix: SOIL

Analysis Batch: 3152581

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152581_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.00199		.0994	0.0899		mg/kg		90	70 - 130	20	35
Ethylbenzene	<.00199		.0994	0.0885		mg/kg		89	71 - 129	15	35
m,p-Xylenes	<.00398		.199	0.178		mg/kg		89	70 - 135	13	35
o-Xylene	<.00199		.0994	0.0879		mg/kg		88	71 - 133	11	35
Toluene	<.00199		.0994	0.0841		mg/kg		85	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	110		70 - 130

Method: Chloride - EPA 300.0

Lab Sample ID: 7722677-1-BLK

Matrix: SOIL

Analysis Batch: 3152757

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152757_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/05/21 11:15	03/05/21 11:28	1

Lab Sample ID: 7722677-1-BKS

Matrix: SOIL

Analysis Batch: 3152757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152757_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	235		mg/kg		94	80 - 120

Lab Sample ID: 7722677-1-BSD

Matrix: SOIL

Analysis Batch: 3152757

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152757_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	235		mg/kg		94	80 - 120	0	20

Lab Sample ID: 689953-009 S

Matrix: SOIL

Analysis Batch: 3152757

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3152757_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2840		1240	4210		mg/kg		110	80 - 120

Lab Sample ID: 689953-009 SD

Matrix: SOIL

Analysis Batch: 3152757

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152757_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2840		1240	4200		mg/kg		110	80 - 120	0	20

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Subcontract

Analysis Batch: 3152581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-1	FL 1@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-2	FL 2@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-3	FL 3@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-4	FL 4@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-5	FL 5@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-6	FL 6@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-7	FL 7@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-8	FL 8@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-9	FL 9@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-10	FL 10@ 1'	Total/NA	Solid	BTEX 8021	3152581_P
890-236-11	EW1	Total/NA	Solid	BTEX 8021	3152581_P
890-236-12	EW2	Total/NA	Solid	BTEX 8021	3152581_P
890-236-13	NW1	Total/NA	Solid	BTEX 8021	3152581_P
890-236-14	NW2	Total/NA	Solid	BTEX 8021	3152581_P
890-236-15	NW3	Total/NA	Solid	BTEX 8021	3152581_P
890-236-16	WW1	Total/NA	Solid	BTEX 8021	3152581_P
7722462-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3152581_P
7722462-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3152581_P
7722462-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3152581_P
689953-001 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3152581_P
689953-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3152581_P

Analysis Batch: 3152757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-1	FL 1@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-2	FL 2@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-3	FL 3@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-4	FL 4@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-5	FL 5@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-6	FL 6@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-7	FL 7@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-8	FL 8@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-9	FL 9@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-10	FL 10@ 1'	Total/NA	Solid	Chloride	3152757_P
890-236-11	EW1	Total/NA	Solid	Chloride	3152757_P
890-236-12	EW2	Total/NA	Solid	Chloride	3152757_P
890-236-13	NW1	Total/NA	Solid	Chloride	3152757_P
890-236-14	NW2	Total/NA	Solid	Chloride	3152757_P
890-236-15	NW3	Total/NA	Solid	Chloride	3152757_P
890-236-16	WW1	Total/NA	Solid	Chloride	3152757_P
7722677-1-BLK	Method Blank	Total/NA	SOIL	Chloride	3152757_P
7722677-1-BKS	Lab Control Sample	Total/NA	SOIL	Chloride	3152757_P
7722677-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	Chloride	3152757_P
689953-009 S	Matrix Spike	Total/NA	SOIL	Chloride	3152757_P
689953-009 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3152757_P

Analysis Batch: 3152838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-1	FL 1@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-2	FL 2@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-3	FL 3@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
 SDG: 13625

Subcontract (Continued)

Analysis Batch: 3152838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-4	FL 4@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-5	FL 5@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-6	FL 6@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-7	FL 7@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-8	FL 8@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-9	FL 9@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-10	FL 10@ 1'	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-11	EW1	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-12	EW2	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-13	NW1	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-14	NW2	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-15	NW3	Total/NA	Solid	8015MOD TPH	3152838_P
890-236-16	WW1	Total/NA	Solid	8015MOD TPH	3152838_P
7722735-1-BLK	Method Blank	Total/NA	SOIL	8015MOD TPH	3152838_P
7722735-1-BKS	Lab Control Sample	Total/NA	SOIL	8015MOD TPH	3152838_P
7722735-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015MOD TPH	3152838_P
689953-001 S	Matrix Spike	Total/NA	SOIL	8015MOD TPH	3152838_P
689953-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	8015MOD TPH	3152838_P

Prep Batch: 3152581_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-1	FL 1@ 1'	Total/NA	Solid	SW5035A	
890-236-2	FL 2@ 1'	Total/NA	Solid	SW5035A	
890-236-3	FL 3@ 1'	Total/NA	Solid	SW5035A	
890-236-4	FL 4@ 1'	Total/NA	Solid	SW5035A	
890-236-5	FL 5@ 1'	Total/NA	Solid	SW5035A	
890-236-6	FL 6@ 1'	Total/NA	Solid	SW5035A	
890-236-7	FL 7@ 1'	Total/NA	Solid	SW5035A	
890-236-8	FL 8@ 1'	Total/NA	Solid	SW5035A	
890-236-9	FL 9@ 1'	Total/NA	Solid	SW5035A	
890-236-10	FL 10@ 1'	Total/NA	Solid	SW5035A	
890-236-11	EW1	Total/NA	Solid	SW5035A	
890-236-12	EW2	Total/NA	Solid	SW5035A	
890-236-13	NW1	Total/NA	Solid	SW5035A	
890-236-14	NW2	Total/NA	Solid	SW5035A	
890-236-15	NW3	Total/NA	Solid	SW5035A	
890-236-16	WW1	Total/NA	Solid	SW5035A	
7722462-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7722462-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7722462-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
689953-001 S	Matrix Spike	Total/NA	SOIL	SW5035A	
689953-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3152757_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-1	FL 1@ 1'	Total/NA	Solid	E300P	
890-236-2	FL 2@ 1'	Total/NA	Solid	E300P	
890-236-3	FL 3@ 1'	Total/NA	Solid	E300P	
890-236-4	FL 4@ 1'	Total/NA	Solid	E300P	
890-236-5	FL 5@ 1'	Total/NA	Solid	E300P	
890-236-6	FL 6@ 1'	Total/NA	Solid	E300P	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
 SDG: 13625

Subcontract (Continued)

Prep Batch: 3152757_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-7	FL 7@ 1'	Total/NA	Solid	E300P	
890-236-8	FL 8@ 1'	Total/NA	Solid	E300P	
890-236-9	FL 9@ 1'	Total/NA	Solid	E300P	
890-236-10	FL 10@ 1'	Total/NA	Solid	E300P	
890-236-11	EW1	Total/NA	Solid	E300P	
890-236-12	EW2	Total/NA	Solid	E300P	
890-236-13	NW1	Total/NA	Solid	E300P	
890-236-14	NW2	Total/NA	Solid	E300P	
890-236-15	NW3	Total/NA	Solid	E300P	
890-236-16	WW1	Total/NA	Solid	E300P	
7722677-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722677-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722677-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
689953-009 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
689953-009 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3152838_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-236-1	FL 1@ 1'	Total/NA	Solid	SW8015P	
890-236-2	FL 2@ 1'	Total/NA	Solid	SW8015P	
890-236-3	FL 3@ 1'	Total/NA	Solid	SW8015P	
890-236-4	FL 4@ 1'	Total/NA	Solid	SW8015P	
890-236-5	FL 5@ 1'	Total/NA	Solid	SW8015P	
890-236-6	FL 6@ 1'	Total/NA	Solid	SW8015P	
890-236-7	FL 7@ 1'	Total/NA	Solid	SW8015P	
890-236-8	FL 8@ 1'	Total/NA	Solid	SW8015P	
890-236-9	FL 9@ 1'	Total/NA	Solid	SW8015P	
890-236-10	FL 10@ 1'	Total/NA	Solid	SW8015P	
890-236-11	EW1	Total/NA	Solid	SW8015P	
890-236-12	EW2	Total/NA	Solid	SW8015P	
890-236-13	NW1	Total/NA	Solid	SW8015P	
890-236-14	NW2	Total/NA	Solid	SW8015P	
890-236-15	NW3	Total/NA	Solid	SW8015P	
890-236-16	WW1	Total/NA	Solid	SW8015P	
7722735-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722735-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722735-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
689953-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
689953-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 1@ 1'

Lab Sample ID: 890-236-1

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 13:50	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 09:06	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		10	3152757	03/05/21 12:06	CHE	XM

Client Sample ID: FL 2@ 1'

Lab Sample ID: 890-236-2

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 14:55	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 09:26	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 12:11	CHE	XM

Client Sample ID: FL 3@ 1'

Lab Sample ID: 890-236-3

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 15:16	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 09:46	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 12:16	CHE	XM

Client Sample ID: FL 4@ 1'

Lab Sample ID: 890-236-4

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 15:44	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 10:07	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 12:32	CHE	XM

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 5@ 1'

Lab Sample ID: 890-236-5

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 16:05	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 10:27	KTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 12:38	CHE	XM

Client Sample ID: FL 6@ 1'

Lab Sample ID: 890-236-6

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 16:27	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 10:48	KTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		10	3152757	03/05/21 12:43	CHE	XM

Client Sample ID: FL 7@ 1'

Lab Sample ID: 890-236-7

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 16:48	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 11:08	KTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 12:48	CHE	XM

Client Sample ID: FL 8@ 1'

Lab Sample ID: 890-236-8

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 17:09	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 11:28	KTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		1	3152757	03/05/21 12:54	CHE	XM

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: FL 9@ 1'

Lab Sample ID: 890-236-9

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 17:31	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 11:49	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 12:59	CHE	XM

Client Sample ID: FL 10@ 1'

Lab Sample ID: 890-236-10

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 17:52	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 12:09	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 16:02	CHE	XM

Client Sample ID: EW1

Lab Sample ID: 890-236-11

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 18:35	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 13:55	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		10	3152757	03/05/21 16:07	CHE	XM

Client Sample ID: EW2

Lab Sample ID: 890-236-12

Date Collected: 03/01/21 00:00

Matrix: Solid

Date Received: 03/01/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 18:56	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 15:37	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 16:23	CHE	XM

Eurofins Carlsbad

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Client Sample ID: NW1

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 19:17	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 16:30	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 16:28	CHE	XM

Client Sample ID: NW2

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 19:39	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 16:50	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 16:34	CHE	XM

Client Sample ID: NW3

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 20:00	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 17:10	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		5	3152757	03/05/21 16:39	CHE	XM

Client Sample ID: WW1

Date Collected: 03/01/21 00:00

Date Received: 03/01/21 16:23

Lab Sample ID: 890-236-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152838_P	03/05/21 12:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152838	03/05/21 20:21	ARM	XM
Total/NA	Prep	SW5035A		1	3152581_P	03/03/21 17:00		XM
Total/NA	Analysis	BTEX 8021		1	3152581	03/04/21 17:31	CTL	XM
Total/NA	Prep	E300P		1	3152757_P	03/05/21 11:15		XM
Total/NA	Analysis	Chloride		10	3152757	03/05/21 16:44	CHE	XM

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Method	Method Description	Protocol	Laboratory
300.0	EPA 300.0	EPA	XM
8015B	SW846 8015B TPH ORO	SW846	XM
8021	Volatiles by 8021	SW846	XM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-236-1
SDG: 13625

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-236-1	FL 1@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-2	FL 2@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-3	FL 3@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-4	FL 4@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-5	FL 5@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-6	FL 6@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-7	FL 7@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-8	FL 8@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-9	FL 9@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-10	FL 10@ 1'	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-11	EW1	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-12	EW2	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-13	NW1	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-14	NW2	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-15	NW3	Solid	03/01/21 00:00	03/01/21 16:23	
890-236-16	WW1	Solid	03/01/21 00:00	03/01/21 16:23	

Eurofins Carlsbad



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joel Lewry	Bill to: (if different)	COG
Company Name:	Etech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Levinington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		Patron 23 Fed 4H		Turn Around				ANALYSIS REQUEST										Preservative Codes			
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O			
Project Location:		Rural Eddy County, NM		Due Date:														Cool: Cool MeOH: Me			
Sampler's Name:		Miguel Ramirez		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN			
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐												H ₃ PO ₄ : HP	
Samples Received Intact:		Yes ☒ No ☐		Thermometer ID:														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Correction Factor:		-0.2												Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes ☒ No ☐ N/A		Temperature Reading:		5.2/5.8												Zn Acetate+NaOH: Zn			
Total Containers:		16		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters										Sample Comments			
FL1 @ 1'		Soil	3-1-21		1'	C	1	Chlorides													
FL2 @ 1'		Soil	3-1-21		1'	C	1	BTEX													
FL3 @ 1'		Soil	3-1-21		1'	C	1	TPH													
FL4 @ 1'		Soil	3-1-21		1'	C	1														
FL5 @ 1'		Soil	3-1-21		1'	C	1														
FL6 @ 1'		Soil	3-1-21		1'	C	1														
FL7 @ 1'		Soil	3-1-21		1'	C	1														
FL8 @ 1'		Soil	3-1-21		1'	C	1														
FL9 @ 1'		Soil	3-1-21		1'	C	1														
FL10 @ 1'		Soil	3-1-21		1'	C	1														
Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn															
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 :		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471															

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	3	3-1-21 11:23	4		
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Revised Date: 08/25/2020 Rev. 2020.2

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Environment Testing
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Chain of Custody

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	COG
Company Name:	Etech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Levinston, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Patron 23 Fed 4H		Turn Around				ANALYSIS REQUEST										Preservative Codes			
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O			
Project Location:		Rural Eddy County, NM		Due Date:														Cool: Cool MeOH: Me			
Sampler's Name:		Miguel Ramirez		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN			
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes ☐ No ☒		Wet Ice:		Yes ☐ No ☒												H ₃ PO ₄ : HP	
Samples Received Intact:		Yes ☒ No ☐		Thermometer ID:														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Correction Factor:		-0.2												Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes ☐ No ☒ N/A		Temperature Reading:		5.2/5.8												Zn Acetate+NaOH: Zn			
Total Containers:		16		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments			
FL1 @ 1'		Soil	3-1-21		1'	C	1														
FL2 @ 1'		Soil	3-1-21		1'	C	1														
FL3 @ 1'		Soil	3-1-21		1'	C	1														
FL4 @ 1'		Soil	3-1-21		1'	C	1														
FL5 @ 1'		Soil	3-1-21		1'	C	1														
FL6 @ 1'		Soil	3-1-21		1'	C	1														
FL7 @ 1'		Soil	3-1-21		1'	C	1														
FL8 @ 1'		Soil	3-1-21		1'	C	1														
FL9 @ 1'		Soil	3-1-21		1'	C	1														
FL10 @ 1'		Soil	3-1-21		1'	C	1														

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	2	3-1-21 11:23	4		
3			6		

Revised Date 08/25/2020 Rev 2020.2



**Environment Testing
Xenco**

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	CDG
Company Name:	E Tech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lawington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	pm@etechenv.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Patron 23 Feb 4H		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code														None: NO DI Water: H ₂ O			
Project Location:		Rural Eddy county, NM		Due Date:																Cool: Cool MeOH: Me			
Sampler's Name:		Miguel Ramirez		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN			
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters Chlorides BTEX TPH												H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																		NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No N/A		Correction Factor:		See Page 1																Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No N/A		Temperature Reading:																		Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments				
EW1	Soil	3-1-21		-	C	1	X X X X X																
EW2	Soil	3-1-21		-	C	1	X X X X X																
NW1	Soil	3-1-21		-	C	1	X X X X X																
NW2	Soil	3-1-21		-	C	1	X X X X X																
NW3	Soil	3-1-21		-	C	1	X X X X X																
NW4	Soil	3-1-21		-	C	1	X X X X X																

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	2	3-1-21 1623			
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5					

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-236-1

SDG Number: 13625

Login Number: 236

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-247-1
Laboratory Sample Delivery Group: 13625
Client Project/Site: Patron 23 Fed 004 H

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/9/2021 4:49:21 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Laboratory Job ID: 890-247-1
SDG: 13625

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Qualifiers

Subcontract

Qualifier	Qualifier Description
U	Analyte was not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Job ID: 890-247-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-247-1

Receipt

The samples were received on 3/3/2021 4:23 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 9.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FL11 @ 1' (890-247-1), FL12 @ 1' (890-247-2), FL13 @ 1' (890-247-3), FL14 @ 1' (890-247-4), FL15 @ 1' (890-247-5), WW2 (890-247-6) and EW3 (890-247-7).

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: FL11 @ 1'

Lab Sample ID: 890-247-1

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/08/21 23:31	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/08/21 23:31	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/08/21 23:31	1
Total TPH	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/08/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135	03/08/21 17:00	03/08/21 23:31	1
o-Terphenyl	111		70 - 135	03/08/21 17:00	03/08/21 23:31	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 10:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 10:55	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/05/21 16:15	03/06/21 10:55	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 10:55	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 10:55	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 10:55	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130	03/05/21 16:15	03/06/21 10:55	1
4-Bromofluorobenzene	104		70 - 130	03/05/21 16:15	03/06/21 10:55	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1550		25.0		mg/kg		03/05/21 17:10	03/06/21 01:38	5

Client Sample ID: FL12 @ 1'

Lab Sample ID: 890-247-2

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:35	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:35	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:35	1
Total TPH	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135	03/08/21 17:00	03/09/21 00:35	1
o-Terphenyl	110		70 - 135	03/08/21 17:00	03/09/21 00:35	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:15	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/05/21 16:15	03/06/21 11:15	1
o-Xylene	0.00219		0.00202		mg/kg		03/05/21 16:15	03/06/21 11:15	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:15	1
Total BTEX	0.00219		0.00202		mg/kg		03/05/21 16:15	03/06/21 11:15	1
Total Xylenes	0.00219		0.00202		mg/kg		03/05/21 16:15	03/06/21 11:15	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: FL12 @ 1'

Lab Sample ID: 890-247-2

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	100		70 - 130	03/05/21 16:15	03/06/21 11:15	1
4-Bromofluorobenzene	105		70 - 130	03/05/21 16:15	03/06/21 11:15	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		25.0		mg/kg		03/05/21 17:10	03/06/21 01:43	5

Client Sample ID: FL13 @ 1'

Lab Sample ID: 890-247-3

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:56	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:56	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:56	1
Total TPH	<49.8	U	49.8		mg/kg		03/08/21 17:00	03/09/21 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	03/08/21 17:00	03/09/21 00:56	1
o-Terphenyl	101		70 - 135	03/08/21 17:00	03/09/21 00:56	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/05/21 16:15	03/06/21 11:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/05/21 16:15	03/06/21 11:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/05/21 16:15	03/06/21 11:36	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/05/21 16:15	03/06/21 11:36	1
Toluene	<0.00199	U	0.00199		mg/kg		03/05/21 16:15	03/06/21 11:36	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/05/21 16:15	03/06/21 11:36	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/05/21 16:15	03/06/21 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130	03/05/21 16:15	03/06/21 11:36	1
4-Bromofluorobenzene	105		70 - 130	03/05/21 16:15	03/06/21 11:36	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		24.9		mg/kg		03/06/21 14:20	03/06/21 16:10	5

Client Sample ID: FL14 @ 1'

Lab Sample ID: 890-247-4

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:16	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:16	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:16	1
Total TPH	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:16	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: FL14 @ 1'

Lab Sample ID: 890-247-4

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135	03/08/21 17:00	03/09/21 01:16	1
o-Terphenyl	96		70 - 135	03/08/21 17:00	03/09/21 01:16	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:56	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/05/21 16:15	03/06/21 11:56	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:56	1
Toluene	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:56	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:56	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/05/21 16:15	03/06/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130	03/05/21 16:15	03/06/21 11:56	1
4-Bromofluorobenzene	103		70 - 130	03/05/21 16:15	03/06/21 11:56	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		24.9		mg/kg		03/06/21 14:20	03/06/21 16:16	5

Client Sample ID: FL15 @ 1'

Lab Sample ID: 890-247-5

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:38	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:38	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:38	1
Total TPH	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	03/08/21 17:00	03/09/21 01:38	1
o-Terphenyl	103		70 - 135	03/08/21 17:00	03/09/21 01:38	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 12:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 12:16	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/05/21 16:15	03/06/21 12:16	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 12:16	1
Toluene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 12:16	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 12:16	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	97		70 - 130	03/05/21 16:15	03/06/21 12:16	1
4-Bromofluorobenzene	101		70 - 130	03/05/21 16:15	03/06/21 12:16	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: FL15 @ 1'

Lab Sample ID: 890-247-5

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		25.2		mg/kg		03/06/21 14:20	03/06/21 16:22	5

Client Sample ID: WW2

Lab Sample ID: 890-247-6

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	54.4		50.0		mg/kg		03/08/21 17:00	03/09/21 01:58	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:58	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/08/21 17:00	03/09/21 01:58	1
Total TPH	54.4		50.0		mg/kg		03/08/21 17:00	03/09/21 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 135	03/08/21 17:00	03/09/21 01:58	1
o-Terphenyl	100		70 - 135	03/08/21 17:00	03/09/21 01:58	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 13:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 13:38	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/05/21 16:15	03/06/21 13:38	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 13:38	1
Toluene	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 13:38	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 13:38	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/05/21 16:15	03/06/21 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	96		70 - 130	03/05/21 16:15	03/06/21 13:38	1
4-Bromofluorobenzene	103		70 - 130	03/05/21 16:15	03/06/21 13:38	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6100		50.2		mg/kg		03/06/21 14:20	03/06/21 16:28	10

Client Sample ID: EW3

Lab Sample ID: 890-247-7

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/08/21 17:00	03/09/21 02:19	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/08/21 17:00	03/09/21 02:19	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/08/21 17:00	03/09/21 02:19	1
Total TPH	<49.9	U	49.9		mg/kg		03/08/21 17:00	03/09/21 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135	03/08/21 17:00	03/09/21 02:19	1
o-Terphenyl	97		70 - 135	03/08/21 17:00	03/09/21 02:19	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: EW3

Lab Sample ID: 890-247-7

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:15	03/06/21 13:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/05/21 16:15	03/06/21 13:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/05/21 16:15	03/06/21 13:59	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/05/21 16:15	03/06/21 13:59	1
Toluene	<0.00200	U	0.00200		mg/kg		03/05/21 16:15	03/06/21 13:59	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/05/21 16:15	03/06/21 13:59	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/05/21 16:15	03/06/21 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/05/21 16:15	03/06/21 13:59	1
4-Bromofluorobenzene	104		70 - 130	03/05/21 16:15	03/06/21 13:59	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3340		25.3		mg/kg		03/06/21 14:20	03/06/21 16:34	5

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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-247-1	FL11 @ 1'	108	111
890-247-2	FL12 @ 1'	105	110
890-247-3	FL13 @ 1'	97	101
890-247-4	FL14 @ 1'	92	96
890-247-5	FL15 @ 1'	98	103
890-247-6	WW2	96	100
890-247-7	EW3	94	97
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: BTEX 8021 - Volatiles by 8021

Matrix: SOIL

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	
7722662-1-BKS	Lab Control Sample	106	
7722662-1-BLK	Method Blank	97	
7722662-1-BSD	Lab Control Sample Dup	98	
Surrogate Legend			
BFB = 4-Bromofluorobenzene			

Method: BTEX 8021 - Volatiles by 8021

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-247-1	FL11 @ 1'	104	103
890-247-2	FL12 @ 1'	105	100
890-247-3	FL13 @ 1'	105	99
890-247-4	FL14 @ 1'	103	98
890-247-5	FL15 @ 1'	101	97
890-247-6	WW2	103	96
890-247-7	EW3	104	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene			
DFBZ = 1,4-Difluorobenzene			

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO

Lab Sample ID: 772829-1-BLK

Matrix: SOIL

Analysis Batch: 3152991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152991_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/08/21 17:00	03/08/21 22:28	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/08/21 17:00	03/08/21 22:28	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/08/21 17:00	03/08/21 22:28	1

Lab Sample ID: 772829-1-BKS

Matrix: SOIL

Analysis Batch: 3152991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152991_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	983		mg/kg		98	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	978		mg/kg		98	70 - 135

Lab Sample ID: 772829-1-BSD

Matrix: SOIL

Analysis Batch: 3152991

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152991_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	1060		mg/kg		106	70 - 135	8	20
Gasoline Range Hydrocarbons (GRO)	1000	1040		mg/kg		104	70 - 135	6	20

Lab Sample ID: 690350-001 S

Matrix: SOIL

Analysis Batch: 3152991

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3152991_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<49.9		998	917		mg/kg		92	70 - 135
Gasoline Range Hydrocarbons (GRO)	<49.9		998	943		mg/kg		94	70 - 135

Lab Sample ID: 690350-001 SD

Matrix: SOIL

Analysis Batch: 3152991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152991_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<49.9		997	891		mg/kg		89	70 - 135	3	20
Gasoline Range Hydrocarbons (GRO)	<49.9		997	908		mg/kg		91	70 - 135	4	20

Method: BTEX 8021 - Volatiles by 8021

Lab Sample ID: 772662-1-BLK

Matrix: SOIL

Analysis Batch: 3152788

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152788_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/05/21 16:15	03/06/21 08:36	1
Ethylbenzene	<.002	U	.002		mg/kg		03/05/21 16:15	03/06/21 08:36	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/05/21 16:15	03/06/21 08:36	1
o-Xylene	<.002	U	.002		mg/kg		03/05/21 16:15	03/06/21 08:36	1

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 7722662-1-BLK

Matrix: SOIL

Analysis Batch: 3152788

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152788_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<.002	U	.002		mg/kg		03/05/21 16:15	03/06/21 08:36	1
Surrogate	%Recovery	BLANK Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130				03/05/21 16:15	03/06/21 08:36	1

Lab Sample ID: 7722662-1-BKS

Matrix: SOIL

Analysis Batch: 3152788

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152788_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.101		mg/kg		101	70 - 130
Ethylbenzene	.1	0.0990		mg/kg		99	71 - 129
m,p-Xylenes	.2	0.197		mg/kg		99	70 - 135
o-Xylene	.1	0.0998		mg/kg		100	71 - 133
Toluene	.1	0.0939		mg/kg		94	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	106		70 - 130				

Lab Sample ID: 7722662-1-BSD

Matrix: SOIL

Analysis Batch: 3152788

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152788_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	.1	0.100		mg/kg		100	70 - 130	1	35
Ethylbenzene	.1	0.0961		mg/kg		96	71 - 129	3	35
m,p-Xylenes	.2	0.188		mg/kg		94	70 - 135	5	35
o-Xylene	.1	0.0960		mg/kg		96	71 - 133	4	35
Toluene	.1	0.0936		mg/kg		94	70 - 130	0	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	98		70 - 130						

Method: Chloride - EPA 300.0

Lab Sample ID: 7722683-1-BLK

Matrix: SOIL

Analysis Batch: 3152763

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152763_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/05/21 17:10	03/05/21 23:04	1

Lab Sample ID: 7722683-1-BKS

Matrix: SOIL

Analysis Batch: 3152763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152763_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	239		mg/kg		96	80 - 120

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Method: Chloride - EPA 300.0 (Continued)

Lab Sample ID: 7722683-1-BSD

Matrix: SOIL

Analysis Batch: 3152763

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152763_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	239		mg/kg		96	80 - 120	0	20

Lab Sample ID: 7722684-1-BLK

Matrix: SOIL

Analysis Batch: 3152764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3152764_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/06/21 14:20	03/06/21 14:55	1

Lab Sample ID: 7722684-1-BKS

Matrix: SOIL

Analysis Batch: 3152764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3152764_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	252		mg/kg		101	80 - 120		

Lab Sample ID: 7722684-1-BSD

Matrix: SOIL

Analysis Batch: 3152764

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3152764_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	253		mg/kg		101	80 - 120	0	20

Lab Sample ID: 690350-007 S

Matrix: SOIL

Analysis Batch: 3152764

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3152764_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3340		1260	4540		mg/kg		95	80 - 120		

Lab Sample ID: 690350-007 SD

Matrix: SOIL

Analysis Batch: 3152764

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3152764_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3340		1260	4550		mg/kg		96	80 - 120	0	20

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Subcontract

Analysis Batch: 3152763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-1	FL11 @ 1'	Total/NA	Solid	Chloride	3152763_P
890-247-2	FL12 @ 1'	Total/NA	Solid	Chloride	3152763_P
7722683-1-BLK	Method Blank	Total/NA	SOIL	Chloride	3152763_P
7722683-1-BKS	Lab Control Sample	Total/NA	SOIL	Chloride	3152763_P
7722683-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	Chloride	3152763_P

Analysis Batch: 3152764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-3	FL13 @ 1'	Total/NA	Solid	Chloride	3152764_P
890-247-4	FL14 @ 1'	Total/NA	Solid	Chloride	3152764_P
890-247-5	FL15 @ 1'	Total/NA	Solid	Chloride	3152764_P
890-247-6	WW2	Total/NA	Solid	Chloride	3152764_P
890-247-7	EW3	Total/NA	Solid	Chloride	3152764_P
7722684-1-BLK	Method Blank	Total/NA	SOIL	Chloride	3152764_P
7722684-1-BKS	Lab Control Sample	Total/NA	SOIL	Chloride	3152764_P
7722684-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	Chloride	3152764_P
690350-007 S	Matrix Spike	Total/NA	SOIL	Chloride	3152764_P
690350-007 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3152764_P

Analysis Batch: 3152788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-1	FL11 @ 1'	Total/NA	Solid	BTEX 8021	3152788_P
890-247-2	FL12 @ 1'	Total/NA	Solid	BTEX 8021	3152788_P
890-247-3	FL13 @ 1'	Total/NA	Solid	BTEX 8021	3152788_P
890-247-4	FL14 @ 1'	Total/NA	Solid	BTEX 8021	3152788_P
890-247-5	FL15 @ 1'	Total/NA	Solid	BTEX 8021	3152788_P
890-247-6	WW2	Total/NA	Solid	BTEX 8021	3152788_P
890-247-7	EW3	Total/NA	Solid	BTEX 8021	3152788_P
7722662-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3152788_P
7722662-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3152788_P
7722662-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3152788_P

Analysis Batch: 3152991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-1	FL11 @ 1'	Total/NA	Solid	8015MOD TPH	3152991_P
890-247-2	FL12 @ 1'	Total/NA	Solid	8015MOD TPH	3152991_P
890-247-3	FL13 @ 1'	Total/NA	Solid	8015MOD TPH	3152991_P
890-247-4	FL14 @ 1'	Total/NA	Solid	8015MOD TPH	3152991_P
890-247-5	FL15 @ 1'	Total/NA	Solid	8015MOD TPH	3152991_P
890-247-6	WW2	Total/NA	Solid	8015MOD TPH	3152991_P
890-247-7	EW3	Total/NA	Solid	8015MOD TPH	3152991_P
7722829-1-BLK	Method Blank	Total/NA	SOIL	8015MOD TPH	3152991_P
7722829-1-BKS	Lab Control Sample	Total/NA	SOIL	8015MOD TPH	3152991_P
7722829-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015MOD TPH	3152991_P
690350-001 S	Matrix Spike	Total/NA	SOIL	8015MOD TPH	3152991_P
690350-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	8015MOD TPH	3152991_P

Prep Batch: 3152763_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-1	FL11 @ 1'	Total/NA	Solid	E300P	
890-247-2	FL12 @ 1'	Total/NA	Solid	E300P	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
 SDG: 13625

Subcontract (Continued)

Prep Batch: 3152763_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7722683-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722683-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722683-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3152764_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-3	FL13 @ 1'	Total/NA	Solid	E300P	
890-247-4	FL14 @ 1'	Total/NA	Solid	E300P	
890-247-5	FL15 @ 1'	Total/NA	Solid	E300P	
890-247-6	WW2	Total/NA	Solid	E300P	
890-247-7	EW3	Total/NA	Solid	E300P	
7722684-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722684-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722684-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690350-007 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690350-007 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3152788_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-1	FL11 @ 1'	Total/NA	Solid	SW5035A	
890-247-2	FL12 @ 1'	Total/NA	Solid	SW5035A	
890-247-3	FL13 @ 1'	Total/NA	Solid	SW5035A	
890-247-4	FL14 @ 1'	Total/NA	Solid	SW5035A	
890-247-5	FL15 @ 1'	Total/NA	Solid	SW5035A	
890-247-6	WW2	Total/NA	Solid	SW5035A	
890-247-7	EW3	Total/NA	Solid	SW5035A	
7722662-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7722662-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7722662-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

Prep Batch: 3152991_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-247-1	FL11 @ 1'	Total/NA	Solid	SW8015P	
890-247-2	FL12 @ 1'	Total/NA	Solid	SW8015P	
890-247-3	FL13 @ 1'	Total/NA	Solid	SW8015P	
890-247-4	FL14 @ 1'	Total/NA	Solid	SW8015P	
890-247-5	FL15 @ 1'	Total/NA	Solid	SW8015P	
890-247-6	WW2	Total/NA	Solid	SW8015P	
890-247-7	EW3	Total/NA	Solid	SW8015P	
7722829-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722829-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722829-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Subcontract (Continued)**Prep Batch: 3152991_P (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
690350-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690350-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: FL11 @ 1'

Lab Sample ID: 890-247-1

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/08/21 23:31	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 10:55	KTL	XM
Total/NA	Prep	E300P		1	3152763_P	03/05/21 17:10		XM
Total/NA	Analysis	Chloride		5	3152763	03/06/21 01:38	CHE	XM

Client Sample ID: FL12 @ 1'

Lab Sample ID: 890-247-2

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/09/21 00:35	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 11:15	KTL	XM
Total/NA	Prep	E300P		1	3152763_P	03/05/21 17:10		XM
Total/NA	Analysis	Chloride		5	3152763	03/06/21 01:43	CHE	XM

Client Sample ID: FL13 @ 1'

Lab Sample ID: 890-247-3

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/09/21 00:56	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 11:36	KTL	XM
Total/NA	Prep	E300P		1	3152764_P	03/06/21 14:20		XM
Total/NA	Analysis	Chloride		5	3152764	03/06/21 16:10	SPC	XM

Client Sample ID: FL14 @ 1'

Lab Sample ID: 890-247-4

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/09/21 01:16	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 11:56	KTL	XM
Total/NA	Prep	E300P		1	3152764_P	03/06/21 14:20		XM
Total/NA	Analysis	Chloride		5	3152764	03/06/21 16:16	SPC	XM

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Client Sample ID: FL15 @ 1'

Lab Sample ID: 890-247-5

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/09/21 01:38	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 12:16	KTL	XM
Total/NA	Prep	E300P		1	3152764_P	03/06/21 14:20		XM
Total/NA	Analysis	Chloride		5	3152764	03/06/21 16:22	SPC	XM

Client Sample ID: WW2

Lab Sample ID: 890-247-6

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/09/21 01:58	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 13:38	KTL	XM
Total/NA	Prep	E300P		1	3152764_P	03/06/21 14:20		XM
Total/NA	Analysis	Chloride		10	3152764	03/06/21 16:28	SPC	XM

Client Sample ID: EW3

Lab Sample ID: 890-247-7

Date Collected: 03/03/21 00:00

Matrix: Solid

Date Received: 03/03/21 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW8015P		1	3152991_P	03/08/21 17:00		XM
Total/NA	Analysis	8015MOD TPH		1	3152991	03/09/21 02:19	ARM	XM
Total/NA	Prep	SW5035A		1	3152788_P	03/05/21 16:15		XM
Total/NA	Analysis	BTEX 8021		1	3152788	03/06/21 13:59	KTL	XM
Total/NA	Prep	E300P		1	3152764_P	03/06/21 14:20		XM
Total/NA	Analysis	Chloride		5	3152764	03/06/21 16:34	SPC	XM

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

1

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Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Method	Method Description	Protocol	Laboratory
300.0	EPA 300.0	EPA	XM
8015B	SW846 8015B TPH ORO	SW846	XM
8021	Volatiles by 8021	SW846	XM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 004 H

Job ID: 890-247-1
SDG: 13625

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-247-1	FL11 @ 1'	Solid	03/03/21 00:00	03/03/21 16:23	
890-247-2	FL12 @ 1'	Solid	03/03/21 00:00	03/03/21 16:23	
890-247-3	FL13 @ 1'	Solid	03/03/21 00:00	03/03/21 16:23	
890-247-4	FL14 @ 1'	Solid	03/03/21 00:00	03/03/21 16:23	
890-247-5	FL15 @ 1'	Solid	03/03/21 00:00	03/03/21 16:23	
890-247-6	WW2	Solid	03/03/21 00:00	03/03/21 16:23	
890-247-7	EW3	Solid	03/03/21 00:00	03/03/21 16:23	



**Environment Testing
Xenco**

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	COG
Company Name:	ETech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Livingston, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Patron 23 Fed 0044		Turn Around				ANALYSIS REQUEST										Preservative Codes					
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O					
Project Location:		Rural Eddy co, NM		Due Date:														Cool: Cool MeOH: Me					
Sampler's Name:		Miguel Ramirez		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN					
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐														H ₃ PO ₄ : HP	
Samples Received Intact:		Yes ☒ No ☐		Thermometer ID:		7-NM-001														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Correction Factor:		0.2														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes ☒ No ☐ N/A		Temperature Reading:		9.6														Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:		9.4														NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters										Sample Comments					
FL11@1'		Soil	3-3-21	3-3-21	1'	C	1	Chlorides															
FL12@1'		Soil	3-3-21	3-3-21	1'	C	1	BTEX															
FL13@1'		Soil	3-3-21	3-3-21	1'	C	1	TPH															
FL14@1'		Soil	3-3-21	3-3-21	1'	C	1																
FL15@1'		Soil	3-3-21	3-3-21	1'	C	1																
WW2		Soil	3-3-21	3-3-21	-	C	1																
EW3		Soil	3-3-21	3-3-21	-	C	1																

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Clare Cuffo	3-3-21 1623			
3					
5					

Revised Date: 08-25-2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-247-1

SDG Number: 13625

Login Number: 247

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-306-1
Laboratory Sample Delivery Group: 13625
Client Project/Site: Patron 23 Fed 4H

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/15/2021 8:33:33 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Laboratory Job ID: 890-306-1
SDG: 13625

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
 SDG: 13625

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: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Job ID: 890-306-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-306-1

Receipt

The samples were received on 3/8/2021 3:26 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 6.4°C

Subcontract Lab non-Sister Lab

See attached subcontract report.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL 16 @ 1'

Lab Sample ID: 890-306-1

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 12:32	1
o-Terphenyl	77		70 - 135	03/11/21 12:00	03/11/21 12:32	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 09:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 09:50	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/13/21 08:00	03/13/21 09:50	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 09:50	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 09:50	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 09:50	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 09:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	03/13/21 08:00	03/13/21 09:50	1
4-Bromofluorobenzene	98		70 - 130	03/13/21 08:00	03/13/21 09:50	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2340		25.3		mg/kg		03/11/21 09:50	03/11/21 09:30	5

Client Sample ID: FL17 @ 1'

Lab Sample ID: 890-306-2

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 13:35	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 13:35	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 13:35	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 135	03/11/21 12:00	03/11/21 13:35	1
o-Terphenyl	77		70 - 135	03/11/21 12:00	03/11/21 13:35	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 10:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 10:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 08:00	03/13/21 10:10	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 10:10	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 10:10	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 10:10	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 10:10	1

Eurofins Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL17 @ 1'

Lab Sample ID: 890-306-2

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	03/13/21 08:00	03/13/21 10:10	1
4-Bromofluorobenzene	102		70 - 130	03/13/21 08:00	03/13/21 10:10	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		24.8		mg/kg		03/11/21 09:50	03/11/21 09:45	5

Client Sample ID: FL18 @ 1'

Lab Sample ID: 890-306-3

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 13:56	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 13:56	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 13:56	1
Total TPH	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 13:56	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 13:56	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 10:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 10:31	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/13/21 08:00	03/13/21 10:31	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 10:31	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 10:31	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 10:31	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	03/13/21 08:00	03/13/21 10:31	1
4-Bromofluorobenzene	101		70 - 130	03/13/21 08:00	03/13/21 10:31	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		25.1		mg/kg		03/11/21 09:50	03/11/21 09:50	5

Client Sample ID: FL19 @ 1'

Lab Sample ID: 890-306-4

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:17	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:17	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:17	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:17	1

Eurofins Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL19 @ 1'

Lab Sample ID: 890-306-4

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 14:17	1
o-Terphenyl	75		70 - 135	03/11/21 12:00	03/11/21 14:17	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:27	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/13/21 08:00	03/13/21 11:27	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:27	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:27	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:27	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	110		70 - 130	03/13/21 08:00	03/13/21 11:27	1
4-Bromofluorobenzene	101		70 - 130	03/13/21 08:00	03/13/21 11:27	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530		24.9		mg/kg		03/11/21 09:50	03/11/21 09:55	5

Client Sample ID: FL20 @ 1'

Lab Sample ID: 890-306-5

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	03/11/21 12:00	03/11/21 14:38	1
o-Terphenyl	74		70 - 135	03/11/21 12:00	03/11/21 14:38	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:48	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 08:00	03/13/21 11:48	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:48	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:48	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:48	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130	03/13/21 08:00	03/13/21 11:48	1
4-Bromofluorobenzene	104		70 - 130	03/13/21 08:00	03/13/21 11:48	1

Eurofins Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL20 @ 1'

Lab Sample ID: 890-306-5

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230		25.2		mg/kg		03/11/21 09:50	03/11/21 10:00	5

Client Sample ID: FL21 @ 1'

Lab Sample ID: 890-306-6

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:59	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:59	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:59	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 14:59	1
o-Terphenyl	74		70 - 135	03/11/21 12:00	03/11/21 14:59	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 12:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 12:09	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 08:00	03/13/21 12:09	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 12:09	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 12:09	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 12:09	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	113		70 - 130	03/13/21 08:00	03/13/21 12:09	1
4-Bromofluorobenzene	103		70 - 130	03/13/21 08:00	03/13/21 12:09	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		25.0		mg/kg		03/11/21 09:50	03/11/21 10:15	5

Client Sample ID: FL22 @ 1'

Lab Sample ID: 890-306-7

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135	03/11/21 12:00	03/11/21 15:20	1
o-Terphenyl	72		70 - 135	03/11/21 12:00	03/11/21 15:20	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL22 @ 1'

Lab Sample ID: 890-306-7

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 12:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 12:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 08:00	03/13/21 12:30	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 12:30	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 12:30	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 12:30	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 08:00	03/13/21 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	03/13/21 08:00	03/13/21 12:30	1
4-Bromofluorobenzene	98		70 - 130	03/13/21 08:00	03/13/21 12:30	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		25.0		mg/kg		03/11/21 09:50	03/11/21 10:20	5

Client Sample ID: FL23 @ 1'

Lab Sample ID: 890-306-8

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	03/11/21 12:00	03/11/21 15:41	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 15:41	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 12:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 12:50	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/13/21 08:00	03/13/21 12:50	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 12:50	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 12:50	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 12:50	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	109		70 - 130	03/13/21 08:00	03/13/21 12:50	1
4-Bromofluorobenzene	102		70 - 130	03/13/21 08:00	03/13/21 12:50	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		24.8		mg/kg		03/11/21 09:50	03/11/21 10:25	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL24 @ 1'

Lab Sample ID: 890-306-9

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:02	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:02	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:02	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 135	03/11/21 12:00	03/11/21 16:02	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 16:02	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 13:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 13:11	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/13/21 08:00	03/13/21 13:11	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 13:11	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 13:11	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 13:11	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130	03/13/21 08:00	03/13/21 13:11	1
4-Bromofluorobenzene	100		70 - 130	03/13/21 08:00	03/13/21 13:11	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2880		25.2		mg/kg		03/11/21 09:50	03/11/21 10:30	5

Client Sample ID: FL25 @ 1'

Lab Sample ID: 890-306-10

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:23	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:23	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:23	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	03/11/21 12:00	03/11/21 16:23	1
o-Terphenyl	73		70 - 135	03/11/21 12:00	03/11/21 16:23	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 13:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 13:32	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/13/21 08:00	03/13/21 13:32	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 13:32	1
Toluene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 13:32	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 13:32	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 13:32	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL25 @ 1'

Lab Sample ID: 890-306-10

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	03/13/21 08:00	03/13/21 13:32	1
4-Bromofluorobenzene	99		70 - 130	03/13/21 08:00	03/13/21 13:32	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2490		25.3		mg/kg		03/11/21 09:50	03/11/21 10:35	5

Client Sample ID: FL26 @ 1'

Lab Sample ID: 890-306-11

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135	03/11/21 12:00	03/11/21 17:05	1
o-Terphenyl	77		70 - 135	03/11/21 12:00	03/11/21 17:05	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 14:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 14:57	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/13/21 08:00	03/13/21 14:57	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 14:57	1
Toluene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 14:57	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 14:57	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	03/13/21 08:00	03/13/21 14:57	1
4-Bromofluorobenzene	96		70 - 130	03/13/21 08:00	03/13/21 14:57	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		25.0		mg/kg		03/11/21 09:50	03/11/21 10:40	5

Client Sample ID: FL27 @ 1'

Lab Sample ID: 890-306-12

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:26	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:26	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:26	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:26	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL27 @ 1'

Lab Sample ID: 890-306-12

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/11/21 12:00	03/11/21 17:26	1
o-Terphenyl	80		70 - 135	03/11/21 12:00	03/11/21 17:26	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 15:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 15:18	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/13/21 08:00	03/13/21 15:18	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 15:18	1
Toluene	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 15:18	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 15:18	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/13/21 08:00	03/13/21 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130	03/13/21 08:00	03/13/21 15:18	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 08:00	03/13/21 15:18	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2110		24.8		mg/kg		03/11/21 09:50	03/11/21 10:55	5

Client Sample ID: FL28 @ 1'

Lab Sample ID: 890-306-13

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/11/21 12:00	03/11/21 17:47	1
o-Terphenyl	79		70 - 135	03/11/21 12:00	03/11/21 17:47	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/13/21 08:00	03/13/21 15:38	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:38	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:38	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:38	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	112		70 - 130	03/13/21 08:00	03/13/21 15:38	1
4-Bromofluorobenzene	102		70 - 130	03/13/21 08:00	03/13/21 15:38	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL28 @ 1'

Lab Sample ID: 890-306-13

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		25.1		mg/kg		03/11/21 09:50	03/11/21 11:00	5

Client Sample ID: FL29 @ 1'

Lab Sample ID: 890-306-14

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 18:08	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 18:08	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 18:08	1
Total TPH	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 18:08	1
o-Terphenyl	77		70 - 135	03/11/21 12:00	03/11/21 18:08	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:59	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 08:00	03/13/21 15:59	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:59	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:59	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:59	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	111		70 - 130	03/13/21 08:00	03/13/21 15:59	1
4-Bromofluorobenzene	106		70 - 130	03/13/21 08:00	03/13/21 15:59	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.0		mg/kg		03/11/21 09:50	03/11/21 11:15	5

Client Sample ID: FL30 @ 1'

Lab Sample ID: 890-306-15

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/11/21 12:00	03/11/21 18:29	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 18:29	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL30 @ 1'

Lab Sample ID: 890-306-15

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 16:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 16:20	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 08:00	03/13/21 16:20	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 16:20	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 16:20	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 16:20	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 08:00	03/13/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	108		70 - 130	03/13/21 08:00	03/13/21 16:20	1
4-Bromofluorobenzene	105		70 - 130	03/13/21 08:00	03/13/21 16:20	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		25.0		mg/kg		03/11/21 09:50	03/11/21 11:20	5

Client Sample ID: FL31 @ 1'

Lab Sample ID: 890-306-16

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	03/11/21 12:00	03/11/21 18:51	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 18:51	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 16:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 16:41	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 08:00	03/13/21 16:41	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 16:41	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 16:41	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 16:41	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 08:00	03/13/21 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	111		70 - 130	03/13/21 08:00	03/13/21 16:41	1
4-Bromofluorobenzene	102		70 - 130	03/13/21 08:00	03/13/21 16:41	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		25.0		mg/kg		03/11/21 09:50	03/11/21 11:25	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL32 @ 1'

Lab Sample ID: 890-306-17

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135	03/11/21 12:00	03/11/21 19:12	1
o-Terphenyl	77		70 - 135	03/11/21 12:00	03/11/21 19:12	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 17:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 17:02	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/13/21 08:00	03/13/21 17:02	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 17:02	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 17:02	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 17:02	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 08:00	03/13/21 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	03/13/21 08:00	03/13/21 17:02	1
4-Bromofluorobenzene	97		70 - 130	03/13/21 08:00	03/13/21 17:02	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		25.0		mg/kg		03/11/21 09:50	03/11/21 11:30	5

Client Sample ID: FL33 @ 1'

Lab Sample ID: 890-306-18

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:32	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:32	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:32	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 19:32	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 19:32	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 00:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 00:35	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/13/21 11:00	03/14/21 00:35	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 00:35	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 00:35	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 00:35	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 00:35	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL33 @ 1'

Lab Sample ID: 890-306-18

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/13/21 11:00	03/14/21 00:35	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 00:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		25.2		mg/kg		03/11/21 09:50	03/11/21 11:35	5

Method: Chloride - EPA 300.0

Client Sample ID: FL34 @ 1'

Lab Sample ID: 890-306-19

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:53	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:53	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:53	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135	03/11/21 12:00	03/11/21 19:53	1
o-Terphenyl	74		70 - 135	03/11/21 12:00	03/11/21 19:53	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 00:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 00:55	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 11:00	03/14/21 00:55	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 00:55	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 00:55	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 00:55	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 00:55	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 00:55	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		24.8		mg/kg		03/11/21 09:50	03/11/21 11:40	5

Client Sample ID: FL35 @ 1'

Lab Sample ID: 890-306-20

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 20:14	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 20:14	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 20:14	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 20:14	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL35 @ 1'

Lab Sample ID: 890-306-20

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 20:14	1
o-Terphenyl	78		70 - 135	03/11/21 12:00	03/11/21 20:14	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 11:00	03/14/21 01:16	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:16	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:16	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:16	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/13/21 11:00	03/14/21 01:16	1
4-Bromofluorobenzene	91		70 - 130	03/13/21 11:00	03/14/21 01:16	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		25.0		mg/kg		03/11/21 09:50	03/11/21 11:45	5

Client Sample ID: FL36 @ 1'

Lab Sample ID: 890-306-21

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135	03/11/21 12:00	03/11/21 12:32	1
o-Terphenyl	82		70 - 135	03/11/21 12:00	03/11/21 12:32	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 01:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 01:36	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/13/21 11:00	03/14/21 01:36	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 01:36	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 01:36	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 01:36	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	91		70 - 130	03/13/21 11:00	03/14/21 01:36	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 01:36	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL36 @ 1'

Lab Sample ID: 890-306-21

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		25.2		mg/kg		03/11/21 10:30	03/11/21 11:24	5

Client Sample ID: FL37 @ 1'

Lab Sample ID: 890-306-22

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:35	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:35	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:35	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	03/11/21 12:00	03/11/21 13:35	1
o-Terphenyl	80		70 - 135	03/11/21 12:00	03/11/21 13:35	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 11:00	03/14/21 01:57	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:57	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:57	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:57	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/13/21 11:00	03/14/21 01:57	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 01:57	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180		24.9		mg/kg		03/11/21 10:30	03/11/21 11:40	5

Client Sample ID: FL38 @ 1'

Lab Sample ID: 890-306-23

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:56	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:56	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:56	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 135	03/11/21 12:00	03/11/21 13:56	1
o-Terphenyl	80		70 - 135	03/11/21 12:00	03/11/21 13:56	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL38 @ 1'

Lab Sample ID: 890-306-23

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 03:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 03:17	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 11:00	03/14/21 03:17	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 03:17	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 03:17	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 03:17	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	89		70 - 130	03/13/21 11:00	03/14/21 03:17	1
4-Bromofluorobenzene	93		70 - 130	03/13/21 11:00	03/14/21 03:17	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2080		24.9		mg/kg		03/11/21 10:30	03/11/21 11:46	5

Client Sample ID: FL39 @ 1'

Lab Sample ID: 890-306-24

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:17	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:17	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:17	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 135	03/11/21 12:00	03/11/21 14:17	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 14:17	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 03:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 03:37	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 11:00	03/14/21 03:37	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 03:37	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 03:37	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 03:37	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	90		70 - 130	03/13/21 11:00	03/14/21 03:37	1
4-Bromofluorobenzene	97		70 - 130	03/13/21 11:00	03/14/21 03:37	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		24.8		mg/kg		03/11/21 10:30	03/11/21 11:51	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL40 @ 1'

Lab Sample ID: 890-306-25

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135	03/11/21 12:00	03/11/21 14:38	1
o-Terphenyl	86		70 - 135	03/11/21 12:00	03/11/21 14:38	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 03:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 03:58	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/13/21 11:00	03/14/21 03:58	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 03:58	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 03:58	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 03:58	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 03:58	1
4-Bromofluorobenzene	98		70 - 130	03/13/21 11:00	03/14/21 03:58	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3660		25.2		mg/kg		03/11/21 10:30	03/11/21 11:57	5

Client Sample ID: FL41 @ 6"

Lab Sample ID: 890-306-26

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 14:59	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 14:59	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 14:59	1
Total TPH	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 135	03/11/21 12:00	03/11/21 14:59	1
o-Terphenyl	75		70 - 135	03/11/21 12:00	03/11/21 14:59	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 11:00	03/14/21 04:18	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:18	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:18	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:18	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:18	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL41 @ 6"

Lab Sample ID: 890-306-26

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 04:18	1
4-Bromofluorobenzene	91		70 - 130	03/13/21 11:00	03/14/21 04:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2960		24.9		mg/kg		03/11/21 10:30	03/11/21 12:13	5

Method: Chloride - EPA 300.0

Client Sample ID: FL42 @ 6"

Lab Sample ID: 890-306-27

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	03/11/21 12:00	03/11/21 15:20	1
o-Terphenyl	86		70 - 135	03/11/21 12:00	03/11/21 15:20	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/13/21 11:00	03/14/21 04:39	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:39	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:39	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:39	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 04:39	1
4-Bromofluorobenzene	93		70 - 130	03/13/21 11:00	03/14/21 04:39	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3180		24.8		mg/kg		03/11/21 10:30	03/11/21 12:19	5

Client Sample ID: FL43 @ 6"

Lab Sample ID: 890-306-28

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 15:41	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL43 @ 6"

Lab Sample ID: 890-306-28

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	03/11/21 12:00	03/11/21 15:41	1
o-Terphenyl	83		70 - 135	03/11/21 12:00	03/11/21 15:41	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 06:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 06:00	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/13/21 11:00	03/14/21 06:00	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 06:00	1
Toluene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 06:00	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 06:00	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 06:00	1
4-Bromofluorobenzene	91		70 - 130	03/13/21 11:00	03/14/21 06:00	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		25.1		mg/kg		03/11/21 10:30	03/11/21 12:24	5

Client Sample ID: FL44 @ 6"

Lab Sample ID: 890-306-29

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 16:02	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 16:02	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 16:02	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	**	70 - 135	03/11/21 12:00	03/11/21 16:02	1
o-Terphenyl	67	**	70 - 135	03/11/21 12:00	03/11/21 16:02	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 06:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 06:20	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/13/21 11:00	03/14/21 06:20	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 06:20	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 06:20	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 06:20	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/13/21 11:00	03/14/21 06:20	1
4-Bromofluorobenzene	96		70 - 130	03/13/21 11:00	03/14/21 06:20	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL44 @ 6"

Lab Sample ID: 890-306-29

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		24.8		mg/kg		03/11/21 10:30	03/11/21 12:30	5

Client Sample ID: FL45 @ 6"

Lab Sample ID: 890-306-30

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 16:23	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 16:23	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 16:23	1
Total TPH	<49.8	U	49.8		mg/kg		03/11/21 12:00	03/11/21 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 135	03/11/21 12:00	03/11/21 16:23	1
o-Terphenyl	69	**	70 - 135	03/11/21 12:00	03/11/21 16:23	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 06:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 06:41	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/13/21 11:00	03/14/21 06:41	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 06:41	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 06:41	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 06:41	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 11:00	03/14/21 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/13/21 11:00	03/14/21 06:41	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 06:41	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2720		25.0		mg/kg		03/11/21 10:30	03/11/21 12:35	5

Client Sample ID: FL46 @ 6"

Lab Sample ID: 890-306-31

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 135	03/11/21 12:00	03/11/21 17:05	1
o-Terphenyl	71		70 - 135	03/11/21 12:00	03/11/21 17:05	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL46 @ 6"

Lab Sample ID: 890-306-31

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:01	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 11:00	03/14/21 07:01	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:01	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:01	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:01	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 07:01	1
4-Bromofluorobenzene	96		70 - 130	03/13/21 11:00	03/14/21 07:01	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2730	X	25.3		mg/kg		03/11/21 10:30	03/11/21 12:41	5

Client Sample ID: FL47 @ 6"

Lab Sample ID: 890-306-32

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:26	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:26	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:26	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 135	03/11/21 12:00	03/11/21 17:26	1
o-Terphenyl	71		70 - 135	03/11/21 12:00	03/11/21 17:26	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 11:00	03/14/21 07:22	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:22	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:22	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:22	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 07:22	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 07:22	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2640		24.9		mg/kg		03/11/21 10:30	03/11/21 12:58	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL48 @ 6"

Lab Sample ID: 890-306-33

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 135	03/11/21 12:00	03/11/21 17:47	1
o-Terphenyl	76		70 - 135	03/11/21 12:00	03/11/21 17:47	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/13/21 11:00	03/14/21 07:42	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:42	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:42	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:42	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 11:00	03/14/21 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 07:42	1
4-Bromofluorobenzene	96		70 - 130	03/13/21 11:00	03/14/21 07:42	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		24.8		mg/kg		03/11/21 10:30	03/11/21 13:03	5

Client Sample ID: FL49 @ 6"

Lab Sample ID: 890-306-34

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:08	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:08	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:08	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 135	03/11/21 12:00	03/11/21 18:08	1
o-Terphenyl	70		70 - 135	03/11/21 12:00	03/11/21 18:08	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:02	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/13/21 11:00	03/14/21 08:02	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:02	1
Toluene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:02	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:02	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:02	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL49 @ 6"

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-34

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 11:00	03/14/21 08:02	1
4-Bromofluorobenzene	96		70 - 130	03/13/21 11:00	03/14/21 08:02	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870		25.2		mg/kg		03/11/21 10:30	03/11/21 13:20	5

Client Sample ID: FL50 @ 6"

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-35

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135	03/11/21 12:00	03/11/21 18:29	1
o-Terphenyl	79		70 - 135	03/11/21 12:00	03/11/21 18:29	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 08:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 08:23	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 11:00	03/14/21 08:23	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 08:23	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 08:23	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 08:23	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 11:00	03/14/21 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/13/21 11:00	03/14/21 08:23	1
4-Bromofluorobenzene	87		70 - 130	03/13/21 11:00	03/14/21 08:23	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2250		25.0		mg/kg		03/11/21 10:30	03/11/21 13:25	5

Client Sample ID: FL51 @ 6"

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-36

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 18:51	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL51 @ 6"

Lab Sample ID: 890-306-36

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135	03/11/21 12:00	03/11/21 18:51	1
o-Terphenyl	91		70 - 135	03/11/21 12:00	03/11/21 18:51	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:43	1
m,p-Xylenes	<0.00402	U	0.00402		mg/kg		03/13/21 11:00	03/14/21 08:43	1
o-Xylene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:43	1
Toluene	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:43	1
Total BTEX	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:43	1
Total Xylenes	<0.00201	U	0.00201		mg/kg		03/13/21 11:00	03/14/21 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 11:00	03/14/21 08:43	1
4-Bromofluorobenzene	98		70 - 130	03/13/21 11:00	03/14/21 08:43	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		25.0		mg/kg		03/11/21 10:30	03/11/21 13:31	5

Client Sample ID: FL52 @ 6"

Lab Sample ID: 890-306-37

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135	03/11/21 12:00	03/11/21 19:12	1
o-Terphenyl	81		70 - 135	03/11/21 12:00	03/11/21 19:12	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 09:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 09:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 11:00	03/14/21 09:04	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 09:04	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 09:04	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 09:04	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 11:00	03/14/21 09:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/13/21 11:00	03/14/21 09:04	1
4-Bromofluorobenzene	97		70 - 130	03/13/21 11:00	03/14/21 09:04	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL52 @ 6"

Lab Sample ID: 890-306-37

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		25.0		mg/kg		03/11/21 10:30	03/11/21 13:36	5

Client Sample ID: FL53 @ 6"

Lab Sample ID: 890-306-38

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:32	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:32	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:32	1
Total TPH	<50.0	U	50.0		mg/kg		03/11/21 12:00	03/11/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135	03/11/21 12:00	03/11/21 19:32	1
o-Terphenyl	79		70 - 135	03/11/21 12:00	03/11/21 19:32	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 12:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 12:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 09:00	03/14/21 12:26	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 12:26	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 12:26	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 12:26	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 12:26	1
4-Bromofluorobenzene	101		70 - 130	03/13/21 09:00	03/14/21 12:26	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		25.2		mg/kg		03/11/21 10:30	03/11/21 13:42	5

Client Sample ID: FL54 @ 6"

Lab Sample ID: 890-306-39

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:53	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:53	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:53	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135	03/11/21 12:00	03/11/21 19:53	1
o-Terphenyl	91		70 - 135	03/11/21 12:00	03/11/21 19:53	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL54 @ 6"

Lab Sample ID: 890-306-39

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 12:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 12:47	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/13/21 09:00	03/14/21 12:47	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 12:47	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 12:47	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 12:47	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 12:47	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 12:47	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2020		24.8		mg/kg		03/11/21 10:30	03/11/21 13:47	5

Client Sample ID: FL55 @ 6"

Lab Sample ID: 890-306-40

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 20:14	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 20:14	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 20:14	1
Total TPH	<49.9	U	49.9		mg/kg		03/11/21 12:00	03/11/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 135	03/11/21 12:00	03/11/21 20:14	1
o-Terphenyl	85		70 - 135	03/11/21 12:00	03/11/21 20:14	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:07	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 09:00	03/14/21 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:07	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:07	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:07	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 13:07	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 13:07	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25.1		mg/kg		03/11/21 10:30	03/11/21 13:53	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL56 @ 6"

Lab Sample ID: 890-306-41

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 13:30	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 13:30	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 13:30	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 135	03/13/21 09:00	03/13/21 13:30	1
o-Terphenyl	95		70 - 135	03/13/21 09:00	03/13/21 13:30	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 13:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 09:00	03/14/21 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 13:28	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 13:28	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 13:28	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	96		70 - 130	03/13/21 09:00	03/14/21 13:28	1
4-Bromofluorobenzene	93		70 - 130	03/13/21 09:00	03/14/21 13:28	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3120		25.3		mg/kg		03/11/21 15:15	03/11/21 15:43	5

Client Sample ID: FL57 @ 6"

Lab Sample ID: 890-306-42

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 135	03/13/21 09:00	03/13/21 14:34	1
o-Terphenyl	93		70 - 135	03/13/21 09:00	03/13/21 14:34	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:48	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/13/21 09:00	03/14/21 13:48	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:48	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:48	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:48	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 13:48	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL57 @ 6"

Lab Sample ID: 890-306-42

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 13:48	1
4-Bromofluorobenzene	91		70 - 130	03/13/21 09:00	03/14/21 13:48	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		24.8		mg/kg		03/11/21 15:15	03/11/21 15:59	5

Client Sample ID: FL58 @ 6"

Lab Sample ID: 890-306-43

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Total TPH	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135	03/13/21 09:00	03/13/21 14:56	1
o-Terphenyl	91		70 - 135	03/13/21 09:00	03/13/21 14:56	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 14:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 14:08	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 09:00	03/14/21 14:08	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 14:08	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 14:08	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 14:08	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 14:08	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 14:08	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3510		25.2		mg/kg		03/11/21 15:15	03/11/21 16:05	5

Client Sample ID: FL59 @ 6"

Lab Sample ID: 890-306-44

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:17	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL59 @ 6"

Lab Sample ID: 890-306-44

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135	03/13/21 09:00	03/13/21 15:17	1
o-Terphenyl	93		70 - 135	03/13/21 09:00	03/13/21 15:17	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 14:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 14:29	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/13/21 09:00	03/14/21 14:29	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 14:29	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 14:29	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 14:29	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 14:29	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 14:29	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3170		25.0		mg/kg		03/11/21 15:15	03/11/21 16:11	5

Client Sample ID: FL60 @ 6"

Lab Sample ID: 890-306-45

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:39	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:39	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:39	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 135	03/13/21 09:00	03/13/21 15:39	1
o-Terphenyl	94		70 - 135	03/13/21 09:00	03/13/21 15:39	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 15:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 15:19	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/13/21 09:00	03/14/21 15:19	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 15:19	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 15:19	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 15:19	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 15:19	1
4-Bromofluorobenzene	92		70 - 130	03/13/21 09:00	03/14/21 15:19	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL60 @ 6"

Lab Sample ID: 890-306-45

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3650		25.0		mg/kg		03/11/21 15:15	03/11/21 16:16	5

Client Sample ID: FL61 @ 6"

Lab Sample ID: 890-306-46

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 135	03/13/21 09:00	03/13/21 16:00	1
o-Terphenyl	89		70 - 135	03/13/21 09:00	03/13/21 16:00	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 15:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 15:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 09:00	03/14/21 15:40	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 15:40	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 15:40	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 15:40	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 09:00	03/14/21 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 15:40	1
4-Bromofluorobenzene	93		70 - 130	03/13/21 09:00	03/14/21 15:40	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3480		25.0		mg/kg		03/11/21 15:15	03/11/21 16:33	5

Client Sample ID: FL62 @ 6"

Lab Sample ID: 890-306-47

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	03/13/21 09:00	03/13/21 16:21	1
o-Terphenyl	93		70 - 135	03/13/21 09:00	03/13/21 16:21	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL62 @ 6"

Lab Sample ID: 890-306-47

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 16:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 16:00	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/13/21 09:00	03/14/21 16:00	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 16:00	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 16:00	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 16:00	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 16:00	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 16:00	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3580		25.3		mg/kg		03/11/21 15:15	03/11/21 16:38	5

Client Sample ID: FL63 @ 6"

Lab Sample ID: 890-306-48

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 135	03/13/21 09:00	03/13/21 16:43	1
o-Terphenyl	95		70 - 135	03/13/21 09:00	03/13/21 16:43	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 17:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 17:22	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/13/21 09:00	03/14/21 17:22	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 17:22	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 17:22	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 17:22	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 17:22	1
4-Bromofluorobenzene	98		70 - 130	03/13/21 09:00	03/14/21 17:22	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3190		25.3		mg/kg		03/11/21 15:15	03/11/21 16:44	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL64 @ 6"

Lab Sample ID: 890-306-49

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 135	03/13/21 09:00	03/13/21 17:05	1
o-Terphenyl	96		70 - 135	03/13/21 09:00	03/13/21 17:05	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 17:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 09:00	03/14/21 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 17:43	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 17:43	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 17:43	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/13/21 09:00	03/14/21 17:43	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 17:43	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		24.9		mg/kg		03/11/21 15:15	03/11/21 16:49	5

Client Sample ID: FL65 @ 6"

Lab Sample ID: 890-306-50

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:26	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:26	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:26	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 135	03/13/21 09:00	03/13/21 17:26	1
o-Terphenyl	91		70 - 135	03/13/21 09:00	03/13/21 17:26	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 18:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 18:03	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/13/21 09:00	03/14/21 18:03	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 18:03	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 18:03	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 18:03	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 18:03	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL65 @ 6"

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-50

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 18:03	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 18:03	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2960		24.8		mg/kg		03/11/21 15:15	03/11/21 16:55	5

Client Sample ID: FL66 @ 6"

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-51

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 135	03/13/21 09:00	03/13/21 18:09	1
o-Terphenyl	95		70 - 135	03/13/21 09:00	03/13/21 18:09	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 18:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 18:24	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/13/21 09:00	03/14/21 18:24	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 18:24	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 18:24	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 18:24	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 09:00	03/14/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 18:24	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 18:24	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3770		25.0		mg/kg		03/11/21 15:15	03/11/21 17:00	5

Client Sample ID: FL67 @ 6"

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-52

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 18:30	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL67 @ 6"

Lab Sample ID: 890-306-52

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 135	03/13/21 09:00	03/13/21 18:30	1
o-Terphenyl	105		70 - 135	03/13/21 09:00	03/13/21 18:30	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 18:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 18:44	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 09:00	03/14/21 18:44	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 18:44	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 18:44	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 18:44	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	90		70 - 130	03/13/21 09:00	03/14/21 18:44	1
4-Bromofluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 18:44	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.1		mg/kg		03/11/21 15:15	03/11/21 17:17	5

Client Sample ID: FL68 @ 6"

Lab Sample ID: 890-306-53

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:52	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:52	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:52	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	03/13/21 09:00	03/13/21 18:52	1
o-Terphenyl	93		70 - 135	03/13/21 09:00	03/13/21 18:52	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:04	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/13/21 09:00	03/14/21 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:04	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:04	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:04	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/13/21 09:00	03/14/21 19:04	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 19:04	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL68 @ 6"

Lab Sample ID: 890-306-53

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4070		25.3		mg/kg		03/11/21 15:15	03/11/21 17:22	5

Client Sample ID: FL69 @ 6"

Lab Sample ID: 890-306-54

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:13	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:13	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:13	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 135	03/13/21 09:00	03/13/21 19:13	1
o-Terphenyl	94		70 - 135	03/13/21 09:00	03/13/21 19:13	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 19:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 19:25	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/13/21 09:00	03/14/21 19:25	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 19:25	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 19:25	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 19:25	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 19:25	1
4-Bromofluorobenzene	96		70 - 130	03/13/21 09:00	03/14/21 19:25	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3550		25.3		mg/kg		03/11/21 15:15	03/11/21 17:39	5

Client Sample ID: FL70 @ 6"

Lab Sample ID: 890-306-55

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:34	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:34	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:34	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 135	03/13/21 09:00	03/13/21 19:34	1
o-Terphenyl	94		70 - 135	03/13/21 09:00	03/13/21 19:34	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: FL70 @ 6"

Lab Sample ID: 890-306-55

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:45	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/13/21 09:00	03/14/21 19:45	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:45	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:45	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:45	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 09:00	03/14/21 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 19:45	1
4-Bromofluorobenzene	93		70 - 130	03/13/21 09:00	03/14/21 19:45	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2850		24.9		mg/kg		03/11/21 15:15	03/11/21 17:44	5

Client Sample ID: EW4

Lab Sample ID: 890-306-56

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Total TPH	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	03/13/21 09:00	03/13/21 19:55	1
o-Terphenyl	89		70 - 135	03/13/21 09:00	03/13/21 19:55	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:06	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 09:00	03/14/21 20:06	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:06	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:06	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:06	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130	03/13/21 09:00	03/14/21 20:06	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 20:06	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3490		25.0		mg/kg		03/11/21 15:15	03/11/21 17:50	5

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: WW3

Lab Sample ID: 890-306-57

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:16	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:16	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:16	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 135	03/13/21 09:00	03/13/21 20:16	1
o-Terphenyl	99		70 - 135	03/13/21 09:00	03/13/21 20:16	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:26	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/13/21 09:00	03/14/21 20:26	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:26	1
Toluene	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:26	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:26	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/13/21 09:00	03/14/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/13/21 09:00	03/14/21 20:26	1
4-Bromofluorobenzene	95		70 - 130	03/13/21 09:00	03/14/21 20:26	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		24.8		mg/kg		03/11/21 15:15	03/11/21 17:56	5

Client Sample ID: SW1

Lab Sample ID: 890-306-58

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:36	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:36	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:36	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135	03/13/21 09:00	03/13/21 20:36	1
o-Terphenyl	88		70 - 135	03/13/21 09:00	03/13/21 20:36	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/13/21 08:20	03/13/21 21:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/13/21 08:20	03/13/21 21:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/13/21 08:20	03/13/21 21:31	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/13/21 08:20	03/13/21 21:31	1
Toluene	<0.00199	U	0.00199		mg/kg		03/13/21 08:20	03/13/21 21:31	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/13/21 08:20	03/13/21 21:31	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/13/21 08:20	03/13/21 21:31	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: SW1

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-58

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	03/13/21 08:20	03/13/21 21:31	1
4-Bromofluorobenzene	101		70 - 130	03/13/21 08:20	03/13/21 21:31	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2840		25.0		mg/kg		03/11/21 15:15	03/11/21 18:01	5

Client Sample ID: SW2

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-59

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 20:57	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 20:57	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 20:57	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135	03/13/21 09:00	03/13/21 20:57	1
o-Terphenyl	92		70 - 135	03/13/21 09:00	03/13/21 20:57	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:20	03/13/21 21:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/13/21 08:20	03/13/21 21:51	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/13/21 08:20	03/13/21 21:51	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/13/21 08:20	03/13/21 21:51	1
Toluene	<0.00198	U	0.00198		mg/kg		03/13/21 08:20	03/13/21 21:51	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/13/21 08:20	03/13/21 21:51	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/13/21 08:20	03/13/21 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130	03/13/21 08:20	03/13/21 21:51	1
4-Bromofluorobenzene	112		70 - 130	03/13/21 08:20	03/13/21 21:51	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		24.8		mg/kg		03/11/21 15:15	03/11/21 18:07	5

Client Sample ID: SW3

Date Collected: 03/08/21 00:00

Date Received: 03/08/21 15:26

Lab Sample ID: 890-306-60

Matrix: Solid

Method: 8015MOD TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 21:18	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 21:18	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 21:18	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 21:18	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Client Sample ID: SW3

Lab Sample ID: 890-306-60

Date Collected: 03/08/21 00:00

Matrix: Solid

Date Received: 03/08/21 15:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	03/13/21 09:00	03/13/21 21:18	1
o-Terphenyl	94		70 - 135	03/13/21 09:00	03/13/21 21:18	1

Method: BTEX 8021 - Volatiles by 8021

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:20	03/13/21 22:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/13/21 08:20	03/13/21 22:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/13/21 08:20	03/13/21 22:12	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/13/21 08:20	03/13/21 22:12	1
Toluene	<0.00200	U	0.00200		mg/kg		03/13/21 08:20	03/13/21 22:12	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/13/21 08:20	03/13/21 22:12	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/13/21 08:20	03/13/21 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130	03/13/21 08:20	03/13/21 22:12	1
4-Bromofluorobenzene	103		70 - 130	03/13/21 08:20	03/13/21 22:12	1

Method: Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		24.8		mg/kg		03/11/21 15:15	03/11/21 18:12	5

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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-135)	OTPH (70-135)
890-306-1	FL 16 @ 1'	87	77
890-306-2	FL17 @ 1'	88	77
890-306-3	FL18 @ 1'	87	76
890-306-4	FL19 @ 1'	87	75
890-306-5	FL20 @ 1'	85	74
890-306-6	FL21 @ 1'	87	74
890-306-7	FL22 @ 1'	86	72
890-306-8	FL23 @ 1'	85	76
890-306-9	FL24 @ 1'	88	76
890-306-10	FL25 @ 1'	85	73
890-306-11	FL26 @ 1'	89	77
890-306-12	FL27 @ 1'	90	80
890-306-13	FL28 @ 1'	90	79
890-306-14	FL29 @ 1'	87	77
890-306-15	FL30 @ 1'	90	76
890-306-16	FL31 @ 1'	85	76
890-306-17	FL32 @ 1'	89	77
890-306-18	FL33 @ 1'	87	76
890-306-19	FL34 @ 1'	83	74
890-306-20	FL35 @ 1'	87	78
890-306-21	FL36 @ 1'	81	82
890-306-22	FL37 @ 1'	80	80
890-306-23	FL38 @ 1'	79	80
890-306-24	FL39 @ 1'	76	76
890-306-25	FL40 @ 1'	92	86
890-306-26	FL41 @ 6"	75	75
890-306-27	FL42 @ 6"	90	86
890-306-28	FL43 @ 6"	87	83
890-306-29	FL44 @ 6"	68 **	67 **
890-306-30	FL45 @ 6"	70	69 **
890-306-31	FL46 @ 6"	72	71
890-306-32	FL47 @ 6"	72	71
890-306-33	FL48 @ 6"	77	76
890-306-34	FL49 @ 6"	71	70
890-306-35	FL50 @ 6"	78	79
890-306-36	FL51 @ 6"	91	91
890-306-37	FL52 @ 6"	81	81
890-306-38	FL53 @ 6"	78	79
890-306-39	FL54 @ 6"	92	91
890-306-40	FL55 @ 6"	84	85
890-306-41	FL56 @ 6"	111	95
890-306-42	FL57 @ 6"	109	93
890-306-43	FL58 @ 6"	105	91
890-306-44	FL59 @ 6"	108	93
890-306-45	FL60 @ 6"	111	94
890-306-46	FL61 @ 6"	104	89
890-306-47	FL62 @ 6"	107	93
890-306-48	FL63 @ 6"	111	95
890-306-49	FL64 @ 6"	112	96

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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-306-50	FL65 @ 6"	104	91
890-306-51	FL66 @ 6"	112	95
890-306-52	FL67 @ 6"	122	105
890-306-53	FL68 @ 6"	107	93
890-306-54	FL69 @ 6"	110	94
890-306-55	FL70 @ 6"	112	94
890-306-56	EW4	101	89
890-306-57	WW3	115	99
890-306-58	SW1	102	88
890-306-59	SW2	108	92
890-306-60	SW3	107	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: BTEX 8021 - Volatiles by 8021

Matrix: SOIL

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	
690945-001 S	Matrix Spike	97	
690945-001 SD	Matrix Spike Duplicate	105	
690945-018 S	Matrix Spike	102	
690945-018 SD	Matrix Spike Duplicate	108	
690945-038 S	Matrix Spike	109	
690945-038 SD	Matrix Spike Duplicate	98	
690945-058 S	Matrix Spike	102	
690945-058 SD	Matrix Spike Duplicate	100	
7723263-1-BKS	Lab Control Sample	104	
7723263-1-BLK	Method Blank	111	
7723263-1-BSD	Lab Control Sample Dup	101	
7723264-1-BKS	Lab Control Sample	103	
7723264-1-BLK	Method Blank	115	
7723264-1-BSD	Lab Control Sample Dup	108	
7723266-1-BKS	Lab Control Sample	99	
7723266-1-BLK	Method Blank	90	
7723266-1-BSD	Lab Control Sample Dup	101	
7723267-1-BKS	Lab Control Sample	111	
7723267-1-BLK	Method Blank	92	
7723267-1-BSD	Lab Control Sample Dup	104	
Surrogate Legend			
BFB = 4-Bromofluorobenzene			

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Surrogate Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-306-1

Project/Site: Patron 23 Fed 4H

SDG: 13625

Method: BTEX 8021 - Volatiles by 8021

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB (70-130)	DFBZ (70-130)
890-306-1	FL 16 @ 1'	98	104
890-306-2	FL17 @ 1'	102	104
890-306-3	FL18 @ 1'	101	106
890-306-4	FL19 @ 1'	101	110
890-306-5	FL20 @ 1'	104	107
890-306-6	FL21 @ 1'	103	113
890-306-7	FL22 @ 1'	98	104
890-306-8	FL23 @ 1'	102	109
890-306-9	FL24 @ 1'	100	107
890-306-10	FL25 @ 1'	99	104
890-306-11	FL26 @ 1'	96	105
890-306-12	FL27 @ 1'	94	107
890-306-13	FL28 @ 1'	102	112
890-306-14	FL29 @ 1'	106	111
890-306-15	FL30 @ 1'	105	108
890-306-16	FL31 @ 1'	102	111
890-306-17	FL32 @ 1'	97	106
890-306-18	FL33 @ 1'	95	93
890-306-19	FL34 @ 1'	95	94
890-306-20	FL35 @ 1'	91	92
890-306-21	FL36 @ 1'	95	91
890-306-22	FL37 @ 1'	95	93
890-306-23	FL38 @ 1'	93	89
890-306-24	FL39 @ 1'	97	90
890-306-25	FL40 @ 1'	98	94
890-306-26	FL41 @ 6"	91	94
890-306-27	FL42 @ 6"	93	94
890-306-28	FL43 @ 6"	91	94
890-306-29	FL44 @ 6"	96	92
890-306-30	FL45 @ 6"	94	93
890-306-31	FL46 @ 6"	96	95
890-306-32	FL47 @ 6"	95	95
890-306-33	FL48 @ 6"	96	94
890-306-34	FL49 @ 6"	96	95
890-306-35	FL50 @ 6"	87	93
890-306-36	FL51 @ 6"	98	94
890-306-37	FL52 @ 6"	97	92
890-306-38	FL53 @ 6"	101	95
890-306-39	FL54 @ 6"	95	94
890-306-40	FL55 @ 6"	94	94
890-306-41	FL56 @ 6"	93	96
890-306-42	FL57 @ 6"	91	94
890-306-43	FL58 @ 6"	94	95
890-306-44	FL59 @ 6"	94	95
890-306-45	FL60 @ 6"	92	95
890-306-46	FL61 @ 6"	93	95
890-306-47	FL62 @ 6"	95	94
890-306-48	FL63 @ 6"	98	95
890-306-49	FL64 @ 6"	95	93
890-306-50	FL65 @ 6"	94	95

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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-306-51	FL66 @ 6"	94	94
890-306-52	FL67 @ 6"	94	90
890-306-53	FL68 @ 6"	95	92
890-306-54	FL69 @ 6"	96	94
890-306-55	FL70 @ 6"	93	94
890-306-56	EW4	95	93
890-306-57	WW3	95	94
890-306-58	SW1	101	102
890-306-59	SW2	112	101
890-306-60	SW3	103	98

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO

Lab Sample ID: 7723153-1-BLK

Matrix: SOIL

Analysis Batch: 3153455

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153455_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/11/21 12:00	03/11/21 11:29	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/11/21 12:00	03/11/21 11:29	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/11/21 12:00	03/11/21 11:29	1

Lab Sample ID: 7723153-1-BKS

Matrix: SOIL

Analysis Batch: 3153455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153455_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	854		mg/kg		85	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	918		mg/kg		92	70 - 135

Lab Sample ID: 7723153-1-BSD

Matrix: SOIL

Analysis Batch: 3153455

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153455_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	870		mg/kg		87	70 - 135	2	20
Gasoline Range Hydrocarbons (GRO)	1000	920		mg/kg		92	70 - 135	0	20

Lab Sample ID: 690945-001 S

Matrix: SOIL

Analysis Batch: 3153455

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153455_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<49.8		998	834		mg/kg		84	70 - 135
Gasoline Range Hydrocarbons (GRO)	<49.8		998	886		mg/kg		89	70 - 135

Lab Sample ID: 690945-001 SD

Matrix: SOIL

Analysis Batch: 3153455

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153455_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<49.8		996	903		mg/kg		91	70 - 135	8	20
Gasoline Range Hydrocarbons (GRO)	<49.8		996	916		mg/kg		92	70 - 135	3	20

Lab Sample ID: 7723155-1-BLK

Matrix: SOIL

Analysis Batch: 3153458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153458_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/11/21 12:00	03/11/21 11:29	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/11/21 12:00	03/11/21 11:29	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/11/21 12:00	03/11/21 11:29	1

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO (Continued)

Lab Sample ID: 7723155-1-BKS

Matrix: SOIL

Analysis Batch: 3153458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153458_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	879		mg/kg		88	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	978		mg/kg		98	70 - 135

Lab Sample ID: 7723155-1-BSD

Matrix: SOIL

Analysis Batch: 3153458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153458_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	983		mg/kg		98	70 - 135	11	20
Gasoline Range Hydrocarbons (GRO)	1000	1070		mg/kg		107	70 - 135	9	20

Lab Sample ID: 690945-021 S

Matrix: SOIL

Analysis Batch: 3153458

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153458_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<49.8		997	899		mg/kg		90	70 - 135
Gasoline Range Hydrocarbons (GRO)	<49.8		997	946		mg/kg		95	70 - 135

Lab Sample ID: 690945-021 SD

Matrix: SOIL

Analysis Batch: 3153458

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153458_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<49.8		996	909		mg/kg		91	70 - 135	1	20
Gasoline Range Hydrocarbons (GRO)	<49.8		996	951		mg/kg		95	70 - 135	1	20

Lab Sample ID: 7723332-1-BLK

Matrix: SOIL

Analysis Batch: 3153691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153691_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1

Lab Sample ID: 7723332-1-BKS

Matrix: SOIL

Analysis Batch: 3153691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153691_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	1090		mg/kg		109	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	1150		mg/kg		115	70 - 135

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: 8015MOD TPH - SW846 8015B TPH ORO (Continued)

Lab Sample ID: 7723332-1-BSD

Matrix: SOIL

Analysis Batch: 3153691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153691_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	1010		mg/kg		101	70 - 135	8	20
Gasoline Range Hydrocarbons (GRO)	1000	1060		mg/kg		106	70 - 135	8	20

Lab Sample ID: 690945-041 S

Matrix: SOIL

Analysis Batch: 3153691

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153691_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<49.9		998	945		mg/kg		95	70 - 135		
Gasoline Range Hydrocarbons (GRO)	<49.9		998	994		mg/kg		100	70 - 135		

Lab Sample ID: 690945-041 SD

Matrix: SOIL

Analysis Batch: 3153691

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153691_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<49.9		997	979		mg/kg		98	70 - 135	4	20
Gasoline Range Hydrocarbons (GRO)	<49.9		997	1030		mg/kg		103	70 - 135	4	20

Method: BTEX 8021 - Volatiles by 8021

Lab Sample ID: 7723266-1-BLK

Matrix: SOIL

Analysis Batch: 3153563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153563_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/13/21 11:00	03/14/21 00:13	1
Ethylbenzene	<.002	U	.002		mg/kg		03/13/21 11:00	03/14/21 00:13	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/13/21 11:00	03/14/21 00:13	1
o-Xylene	<.002	U	.002		mg/kg		03/13/21 11:00	03/14/21 00:13	1
Toluene	<.002	U	.002		mg/kg		03/13/21 11:00	03/14/21 00:13	1

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130	03/13/21 11:00	03/14/21 00:13	1

Lab Sample ID: 7723266-1-BKS

Matrix: SOIL

Analysis Batch: 3153563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153563_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.103		mg/kg		103	70 - 130		
Ethylbenzene	.1	0.0964		mg/kg		96	71 - 129		
m,p-Xylenes	.2	0.197		mg/kg		99	70 - 135		
o-Xylene	.1	0.0998		mg/kg		100	71 - 133		
Toluene	.1	0.0962		mg/kg		96	70 - 130		

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 7723266-1-BKS

Matrix: SOIL

Analysis Batch: 3153563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153563_P

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	99		70 - 130

Lab Sample ID: 7723266-1-BSD

Matrix: SOIL

Analysis Batch: 3153563

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153563_P

Table 1: Data for Table 1											
Analyte	Surrogate	%Rec.	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	
				Result	Qualifier				Limits	RPD	Limit
Benzene	4-Bromofluorobenzene	99	.1	0.100		mg/kg		100	70 - 130	3	35
Ethylbenzene			.1	0.0953		mg/kg		95	71 - 129	1	35
m,p-Xylenes			.2	0.197		mg/kg		99	70 - 135	0	35
o-Xylene			.1	0.100		mg/kg		100	71 - 133	0	35
Toluene			.1	0.0946		mg/kg		95	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130

Lab Sample ID: 690945-018 S

Matrix: SOIL

Analysis Batch: 3153563

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153563_P

	Sample	Sample	Spike	MS	MS							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec. Limits			
Benzene	<.002		.0998	0.0881		mg/kg		88	70 - 130			
Ethylbenzene	<.002		.0998	0.0831		mg/kg		83	71 - 129			
m,p-Xylenes	<.00399		.2	0.168		mg/kg		84	70 - 135			
o-Xylene	<.002		.0998	0.0846		mg/kg		85	71 - 133			
Toluene	<.002		.0998	0.0835		mg/kg		84	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130

Lab Sample ID: 690945-018 SD

Matrix: SOIL

Analysis Batch: 3153563

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153563_P

	Sample	Sample	Spike	MSD	MSD							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Benzene	<.002		.0998	0.0856		mg/kg		86	70 - 130	3	35	
Ethylbenzene	<.002		.0998	0.0831		mg/kg		83	71 - 129	0	35	
m,p-Xylenes	<.00399		.2	0.170		mg/kg		85	70 - 135	1	35	
o-Xylene	<.002		.0998	0.0861		mg/kg		86	71 - 133	2	35	
Toluene	<.002		.0998	0.0826		mg/kg		83	70 - 130	1	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	108		70 - 130

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 7723267-1-BLK

Matrix: SOIL

Analysis Batch: 3153564

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153564_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/13/21 09:00	03/14/21 12:05	1
Ethylbenzene	<.002	U	.002		mg/kg		03/13/21 09:00	03/14/21 12:05	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/13/21 09:00	03/14/21 12:05	1
o-Xylene	<.002	U	.002		mg/kg		03/13/21 09:00	03/14/21 12:05	1
Toluene	<.002	U	.002		mg/kg		03/13/21 09:00	03/14/21 12:05	1

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130	03/13/21 09:00	03/14/21 12:05	1

Lab Sample ID: 7723267-1-BKS

Matrix: SOIL

Analysis Batch: 3153564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153564_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.104		mg/kg		104	70 - 130
Ethylbenzene	.1	0.101		mg/kg		101	71 - 129
m,p-Xylenes	.2	0.209		mg/kg		105	70 - 135
o-Xylene	.1	0.108		mg/kg		108	71 - 133
Toluene	.1	0.0997		mg/kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	111		70 - 130

Lab Sample ID: 7723267-1-BSD

Matrix: SOIL

Analysis Batch: 3153564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153564_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.104		mg/kg		104	70 - 130	0	35
Ethylbenzene	.1	0.0978		mg/kg		98	71 - 129	3	35
m,p-Xylenes	.2	0.201		mg/kg		101	70 - 135	4	35
o-Xylene	.1	0.104		mg/kg		104	71 - 133	4	35
Toluene	.1	0.0984		mg/kg		98	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130

Lab Sample ID: 690945-038 S

Matrix: SOIL

Analysis Batch: 3153564

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153564_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<.002		.099	0.0877		mg/kg		89	70 - 130
Ethylbenzene	<.002		.099	0.0846		mg/kg		85	71 - 129
m,p-Xylenes	<.004		.198	0.173		mg/kg		87	70 - 135
o-Xylene	<.002		.099	0.0880		mg/kg		89	71 - 133
Toluene	<.002		.099	0.0839		mg/kg		85	70 - 130

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 690945-038 S

Matrix: SOIL

Analysis Batch: 3153564

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153564_P

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	109		70 - 130

Lab Sample ID: 690945-038 SD

Matrix: SOIL

Analysis Batch: 3153564

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153564_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.002		.1	0.0830		mg/kg		83	70 - 130	6	35
Ethylbenzene	<.002		.1	0.0745		mg/kg		75	71 - 129	13	35
m,p-Xylenes	<.004		.2	0.149		mg/kg		75	70 - 135	15	35
o-Xylene	<.002		.1	0.0756		mg/kg		76	71 - 133	15	35
Toluene	<.002		.1	0.0777		mg/kg		78	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	98		70 - 130

Lab Sample ID: 7723263-1-BLK

Matrix: SOIL

Analysis Batch: 3153567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153567_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/13/21 08:00	03/13/21 09:28	1
Ethylbenzene	<.002	U	.002		mg/kg		03/13/21 08:00	03/13/21 09:28	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/13/21 08:00	03/13/21 09:28	1
o-Xylene	<.002	U	.002		mg/kg		03/13/21 08:00	03/13/21 09:28	1
Toluene	<.002	U	.002		mg/kg		03/13/21 08:00	03/13/21 09:28	1

	BLANK	BLANK					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				03/13/21 08:00	03/13/21 09:28	1
4-Bromofluorobenzene	111		70 - 130						

Lab Sample ID: 7723263-1-BKS

Matrix: SOIL

Analysis Batch: 3153567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153567_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.100		mg/kg		100	70 - 130
Ethylbenzene	.1	0.0919		mg/kg		92	71 - 129
m,p-Xylenes	.2	0.184		mg/kg		92	70 - 135
o-Xylene	.1	0.0926		mg/kg		93	71 - 133
Toluene	.1	0.0954		mg/kg		95	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 7723263-1-BSD

Matrix: SOIL

Analysis Batch: 3153567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153567_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.103		mg/kg		103	70 - 130	3	35
Ethylbenzene	.1	0.0944		mg/kg		94	71 - 129	3	35
m,p-Xylenes	.2	0.190		mg/kg		95	70 - 135	3	35
o-Xylene	.1	0.0955		mg/kg		96	71 - 133	3	35
Toluene	.1	0.102		mg/kg		102	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130

Lab Sample ID: 690945-001 S

Matrix: SOIL

Analysis Batch: 3153567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153567_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.00199		.099	0.0878		mg/kg		89	70 - 130		
Ethylbenzene	<.00199		.099	0.0808		mg/kg		82	71 - 129		
m,p-Xylenes	<.00398		.198	0.153		mg/kg		77	70 - 135		
o-Xylene	<.00199		.099	0.0765		mg/kg		77	71 - 133		
Toluene	<.00199		.099	0.0813		mg/kg		82	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130

Lab Sample ID: 690945-001 SD

Matrix: SOIL

Analysis Batch: 3153567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153567_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.00199		.0996	0.0939		mg/kg		94	70 - 130	7	35
Ethylbenzene	<.00199		.0996	0.0842		mg/kg		85	71 - 129	4	35
m,p-Xylenes	<.00398		.199	0.169		mg/kg		85	70 - 135	10	35
o-Xylene	<.00199		.0996	0.0820		mg/kg		82	71 - 133	7	35
Toluene	<.00199		.0996	0.0884		mg/kg		89	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130

Lab Sample ID: 7723264-1-BLK

Matrix: SOIL

Analysis Batch: 3153568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153568_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/13/21 08:20	03/13/21 21:09	1
Ethylbenzene	<.002	U	.002		mg/kg		03/13/21 08:20	03/13/21 21:09	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/13/21 08:20	03/13/21 21:09	1
o-Xylene	<.002	U	.002		mg/kg		03/13/21 08:20	03/13/21 21:09	1
Toluene	<.002	U	.002		mg/kg		03/13/21 08:20	03/13/21 21:09	1

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 7723264-1-BLK

Matrix: SOIL

Analysis Batch: 3153568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153568_P

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	115		70 - 130	03/13/21 08:20	03/13/21 21:09	1

Lab Sample ID: 7723264-1-BKS

Matrix: SOIL

Analysis Batch: 3153568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153568_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.109		mg/kg		109	70 - 130
Ethylbenzene	.1	0.101		mg/kg		101	71 - 129
m,p-Xylenes	.2	0.203		mg/kg		102	70 - 135
o-Xylene	.1	0.100		mg/kg		100	71 - 133
Toluene	.1	0.103		mg/kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		70 - 130

Lab Sample ID: 7723264-1-BSD

Matrix: SOIL

Analysis Batch: 3153568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153568_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	.1	0.118		mg/kg		118	70 - 130	8	35
Ethylbenzene	.1	0.111		mg/kg		111	71 - 129	9	35
m,p-Xylenes	.2	0.226		mg/kg		113	70 - 135	11	35
o-Xylene	.1	0.110		mg/kg		110	71 - 133	10	35
Toluene	.1	0.112		mg/kg		112	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	108		70 - 130

Lab Sample ID: 690945-058 S

Matrix: SOIL

Analysis Batch: 3153568

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153568_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<.002		.0992	0.0869		mg/kg		88	70 - 130
Ethylbenzene	<.002		.0992	0.0887		mg/kg		89	71 - 129
m,p-Xylenes	<.00399		.198	0.169		mg/kg		85	70 - 135
o-Xylene	<.002		.0992	0.0853		mg/kg		86	71 - 133
Toluene	<.002		.0992	0.0830		mg/kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: BTEX 8021 - Volatiles by 8021 (Continued)

Lab Sample ID: 690945-058 SD

Matrix: SOIL

Analysis Batch: 3153568

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153568_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.002		.0998	0.0812		mg/kg		81	70 - 130	7	35
Ethylbenzene	<.002		.0998	0.0813		mg/kg		81	71 - 129	9	35
m,p-Xylenes	<.00399		.2	0.155		mg/kg		78	70 - 135	9	35
o-Xylene	<.002		.0998	0.0700		mg/kg		70	71 - 133	20	35
Toluene	<.002		.0998	0.0858		mg/kg		86	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130

Method: Chloride - EPA 300.0

Lab Sample ID: 7723051-1-BLK

Matrix: SOIL

Analysis Batch: 3153318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153318_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/11/21 10:30	03/11/21 11:07	1

Lab Sample ID: 7723051-1-BKS

Matrix: SOIL

Analysis Batch: 3153318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153318_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	241		mg/kg		96	80 - 120

Lab Sample ID: 7723051-1-BSD

Matrix: SOIL

Analysis Batch: 3153318

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153318_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241		mg/kg		96	80 - 120	0	20

Lab Sample ID: 690945-021 S

Matrix: SOIL

Analysis Batch: 3153318

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153318_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1840		1260	3060		mg/kg		97	80 - 120

Lab Sample ID: 690945-021 SD

Matrix: SOIL

Analysis Batch: 3153318

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153318_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1840		1260	3050		mg/kg		96	80 - 120	0	20

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: Chloride - EPA 300.0 (Continued)

Lab Sample ID: 690945-031 S
Matrix: SOIL
Analysis Batch: 3153318

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3153318_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2730		1260	4220	X	mg/kg		118	80 - 120

Lab Sample ID: 690945-031 SD
Matrix: SOIL
Analysis Batch: 3153318

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3153318_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	2730		1260	4230	X	mg/kg		119	80 - 120	0	20

Lab Sample ID: 7723050-1-BLK
Matrix: SOIL
Analysis Batch: 3153319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3153319_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/11/21 09:50	03/11/21 09:15	1

Lab Sample ID: 7723050-1-BKS
Matrix: SOIL
Analysis Batch: 3153319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3153319_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	252		mg/kg		101	80 - 120

Lab Sample ID: 7723050-1-BSD
Matrix: SOIL
Analysis Batch: 3153319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3153319_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	254		mg/kg		102	80 - 120	1	20

Lab Sample ID: 690945-001 S
Matrix: SOIL
Analysis Batch: 3153319

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3153319_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2340		1260	3620		mg/kg		102	80 - 120

Lab Sample ID: 690945-001 SD
Matrix: SOIL
Analysis Batch: 3153319

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3153319_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	2340		1260	3620		mg/kg		102	80 - 120	0	20

Lab Sample ID: 690945-011 S
Matrix: SOIL
Analysis Batch: 3153319

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3153319_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2440		1250	3720		mg/kg		102	80 - 120

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method: Chloride - EPA 300.0

Lab Sample ID: 690945-011 SD

Matrix: SOIL

Analysis Batch: 3153319

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153319_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2440		1250	3730		mg/kg		103	80 - 120	0	20

Lab Sample ID: 7723105-1-BLK

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/11/21 15:15	03/11/21 15:26	1

Lab Sample ID: 7723105-1-BKS

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231		mg/kg		92	80 - 120

Lab Sample ID: 7723105-1-BSD

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	231		mg/kg		92	80 - 120	0	20

Lab Sample ID: 690945-041 S

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3120		1260	4380		mg/kg		100	80 - 120

Lab Sample ID: 690945-041 SD

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3120		1260	4400		mg/kg		102	80 - 120	0	20

Lab Sample ID: 690945-051 S

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3770		1250	4950		mg/kg		94	80 - 120

Lab Sample ID: 690945-051 SD

Matrix: SOIL

Analysis Batch: 3153432

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153432_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3770		1250	4940		mg/kg		94	80 - 120	0	20

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
 SDG: 13625

Subcontract

Analysis Batch: 3153318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-21	FL36 @ 1'	Total/NA	Solid	Chloride	3153318_P
890-306-22	FL37 @ 1'	Total/NA	Solid	Chloride	3153318_P
890-306-23	FL38 @ 1'	Total/NA	Solid	Chloride	3153318_P
890-306-24	FL39 @ 1'	Total/NA	Solid	Chloride	3153318_P
890-306-25	FL40 @ 1'	Total/NA	Solid	Chloride	3153318_P
890-306-26	FL41 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-27	FL42 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-28	FL43 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-29	FL44 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-30	FL45 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-31	FL46 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-32	FL47 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-33	FL48 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-34	FL49 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-35	FL50 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-36	FL51 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-37	FL52 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-38	FL53 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-39	FL54 @ 6"	Total/NA	Solid	Chloride	3153318_P
890-306-40	FL55 @ 6"	Total/NA	Solid	Chloride	3153318_P
7723051-1-BLK	Method Blank	Total/NA	SOIL	Chloride	3153318_P
7723051-1-BKS	Lab Control Sample	Total/NA	SOIL	Chloride	3153318_P
7723051-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	Chloride	3153318_P
690945-021 S	Matrix Spike	Total/NA	SOIL	Chloride	3153318_P
690945-021 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3153318_P
690945-031 S	Matrix Spike	Total/NA	SOIL	Chloride	3153318_P
690945-031 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3153318_P

Analysis Batch: 3153319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-1	FL 16 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-2	FL17 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-3	FL18 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-4	FL19 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-5	FL20 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-6	FL21 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-7	FL22 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-8	FL23 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-9	FL24 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-10	FL25 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-11	FL26 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-12	FL27 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-13	FL28 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-14	FL29 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-15	FL30 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-16	FL31 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-17	FL32 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-18	FL33 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-19	FL34 @ 1'	Total/NA	Solid	Chloride	3153319_P
890-306-20	FL35 @ 1'	Total/NA	Solid	Chloride	3153319_P
7723050-1-BLK	Method Blank	Total/NA	SOIL	Chloride	3153319_P

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Subcontract (Continued)

Analysis Batch: 3153319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7723050-1-BKS	Lab Control Sample	Total/NA	SOIL	Chloride	3153319_P
7723050-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	Chloride	3153319_P
690945-001 S	Matrix Spike	Total/NA	SOIL	Chloride	3153319_P
690945-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3153319_P
690945-011 S	Matrix Spike	Total/NA	SOIL	Chloride	3153319_P
690945-011 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3153319_P

Analysis Batch: 3153432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-41	FL56 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-42	FL57 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-43	FL58 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-44	FL59 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-45	FL60 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-46	FL61 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-47	FL62 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-48	FL63 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-49	FL64 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-50	FL65 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-51	FL66 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-52	FL67 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-53	FL68 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-54	FL69 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-55	FL70 @ 6"	Total/NA	Solid	Chloride	3153432_P
890-306-56	EW4	Total/NA	Solid	Chloride	3153432_P
890-306-57	WW3	Total/NA	Solid	Chloride	3153432_P
890-306-58	SW1	Total/NA	Solid	Chloride	3153432_P
890-306-59	SW2	Total/NA	Solid	Chloride	3153432_P
890-306-60	SW3	Total/NA	Solid	Chloride	3153432_P
7723105-1-BLK	Method Blank	Total/NA	SOIL	Chloride	3153432_P
7723105-1-BKS	Lab Control Sample	Total/NA	SOIL	Chloride	3153432_P
7723105-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	Chloride	3153432_P
690945-041 S	Matrix Spike	Total/NA	SOIL	Chloride	3153432_P
690945-041 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3153432_P
690945-051 S	Matrix Spike	Total/NA	SOIL	Chloride	3153432_P
690945-051 SD	Matrix Spike Duplicate	Total/NA	SOIL	Chloride	3153432_P

Analysis Batch: 3153455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-1	FL 16 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-2	FL17 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-3	FL18 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-4	FL19 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-5	FL20 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-6	FL21 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-7	FL22 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-8	FL23 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-9	FL24 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-10	FL25 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-11	FL26 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-12	FL27 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
 SDG: 13625

Subcontract (Continued)

Analysis Batch: 3153455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-13	FL28 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-14	FL29 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-15	FL30 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-16	FL31 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-17	FL32 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-18	FL33 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-19	FL34 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
890-306-20	FL35 @ 1'	Total/NA	Solid	8015MOD TPH	3153455_P
7723153-1-BLK	Method Blank	Total/NA	SOIL	8015MOD TPH	3153455_P
7723153-1-BKS	Lab Control Sample	Total/NA	SOIL	8015MOD TPH	3153455_P
7723153-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015MOD TPH	3153455_P
690945-001 S	Matrix Spike	Total/NA	SOIL	8015MOD TPH	3153455_P
690945-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	8015MOD TPH	3153455_P

Analysis Batch: 3153458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-21	FL36 @ 1'	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-22	FL37 @ 1'	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-23	FL38 @ 1'	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-24	FL39 @ 1'	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-25	FL40 @ 1'	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-26	FL41 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-27	FL42 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-28	FL43 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-29	FL44 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-30	FL45 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-31	FL46 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-32	FL47 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-33	FL48 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-34	FL49 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-35	FL50 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-36	FL51 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-37	FL52 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-38	FL53 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-39	FL54 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
890-306-40	FL55 @ 6"	Total/NA	Solid	8015MOD TPH	3153458_P
7723155-1-BLK	Method Blank	Total/NA	SOIL	8015MOD TPH	3153458_P
7723155-1-BKS	Lab Control Sample	Total/NA	SOIL	8015MOD TPH	3153458_P
7723155-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015MOD TPH	3153458_P
690945-021 S	Matrix Spike	Total/NA	SOIL	8015MOD TPH	3153458_P
690945-021 SD	Matrix Spike Duplicate	Total/NA	SOIL	8015MOD TPH	3153458_P

Analysis Batch: 3153563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-18	FL33 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-19	FL34 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-20	FL35 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-21	FL36 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-22	FL37 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-23	FL38 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-24	FL39 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
 SDG: 13625

Subcontract (Continued)

Analysis Batch: 3153563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-25	FL40 @ 1'	Total/NA	Solid	BTEX 8021	3153563_P
890-306-26	FL41 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-27	FL42 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-28	FL43 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-29	FL44 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-30	FL45 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-31	FL46 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-32	FL47 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-33	FL48 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-34	FL49 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-35	FL50 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-36	FL51 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
890-306-37	FL52 @ 6"	Total/NA	Solid	BTEX 8021	3153563_P
7723266-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153563_P
7723266-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153563_P
7723266-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153563_P
690945-018 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153563_P
690945-018 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153563_P

Analysis Batch: 3153564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-38	FL53 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-39	FL54 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-40	FL55 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-41	FL56 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-42	FL57 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-43	FL58 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-44	FL59 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-45	FL60 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-46	FL61 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-47	FL62 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-48	FL63 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-49	FL64 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-50	FL65 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-51	FL66 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-52	FL67 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-53	FL68 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-54	FL69 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-55	FL70 @ 6"	Total/NA	Solid	BTEX 8021	3153564_P
890-306-56	EW4	Total/NA	Solid	BTEX 8021	3153564_P
890-306-57	WW3	Total/NA	Solid	BTEX 8021	3153564_P
7723267-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153564_P
7723267-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153564_P
7723267-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153564_P
690945-038 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153564_P
690945-038 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153564_P

Analysis Batch: 3153567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-1	FL 16 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-2	FL17 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Subcontract (Continued)

Analysis Batch: 3153567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-3	FL18 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-4	FL19 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-5	FL20 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-6	FL21 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-7	FL22 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-8	FL23 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-9	FL24 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-10	FL25 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-11	FL26 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-12	FL27 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-13	FL28 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-14	FL29 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-15	FL30 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-16	FL31 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
890-306-17	FL32 @ 1'	Total/NA	Solid	BTEX 8021	3153567_P
7723263-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153567_P
7723263-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153567_P
7723263-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153567_P
690945-001 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153567_P
690945-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153567_P

Analysis Batch: 3153568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-58	SW1	Total/NA	Solid	BTEX 8021	3153568_P
890-306-59	SW2	Total/NA	Solid	BTEX 8021	3153568_P
890-306-60	SW3	Total/NA	Solid	BTEX 8021	3153568_P
7723264-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153568_P
7723264-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153568_P
7723264-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153568_P
690945-058 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153568_P
690945-058 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153568_P

Analysis Batch: 3153691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-41	FL56 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-42	FL57 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-43	FL58 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-44	FL59 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-45	FL60 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-46	FL61 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-47	FL62 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-48	FL63 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-49	FL64 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-50	FL65 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-51	FL66 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-52	FL67 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-53	FL68 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-54	FL69 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-55	FL70 @ 6"	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-56	EW4	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-57	WW3	Total/NA	Solid	8015MOD TPH	3153691_P

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Subcontract (Continued)

Analysis Batch: 3153691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-58	SW1	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-59	SW2	Total/NA	Solid	8015MOD TPH	3153691_P
890-306-60	SW3	Total/NA	Solid	8015MOD TPH	3153691_P
7723332-1-BLK	Method Blank	Total/NA	SOIL	8015MOD TPH	3153691_P
7723332-1-BKS	Lab Control Sample	Total/NA	SOIL	8015MOD TPH	3153691_P
7723332-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015MOD TPH	3153691_P
690945-041 S	Matrix Spike	Total/NA	SOIL	8015MOD TPH	3153691_P
690945-041 SD	Matrix Spike Duplicate	Total/NA	SOIL	8015MOD TPH	3153691_P

Prep Batch: 3153318_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-21	FL36 @ 1'	Total/NA	Solid	E300P	
890-306-22	FL37 @ 1'	Total/NA	Solid	E300P	
890-306-23	FL38 @ 1'	Total/NA	Solid	E300P	
890-306-24	FL39 @ 1'	Total/NA	Solid	E300P	
890-306-25	FL40 @ 1'	Total/NA	Solid	E300P	
890-306-26	FL41 @ 6"	Total/NA	Solid	E300P	
890-306-27	FL42 @ 6"	Total/NA	Solid	E300P	
890-306-28	FL43 @ 6"	Total/NA	Solid	E300P	
890-306-29	FL44 @ 6"	Total/NA	Solid	E300P	
890-306-30	FL45 @ 6"	Total/NA	Solid	E300P	
890-306-31	FL46 @ 6"	Total/NA	Solid	E300P	
890-306-32	FL47 @ 6"	Total/NA	Solid	E300P	
890-306-33	FL48 @ 6"	Total/NA	Solid	E300P	
890-306-34	FL49 @ 6"	Total/NA	Solid	E300P	
890-306-35	FL50 @ 6"	Total/NA	Solid	E300P	
890-306-36	FL51 @ 6"	Total/NA	Solid	E300P	
890-306-37	FL52 @ 6"	Total/NA	Solid	E300P	
890-306-38	FL53 @ 6"	Total/NA	Solid	E300P	
890-306-39	FL54 @ 6"	Total/NA	Solid	E300P	
890-306-40	FL55 @ 6"	Total/NA	Solid	E300P	
7723051-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723051-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723051-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690945-021 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-021 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	
690945-031 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-031 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153319_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-1	FL 16 @ 1'	Total/NA	Solid	E300P	
890-306-2	FL 17 @ 1'	Total/NA	Solid	E300P	
890-306-3	FL 18 @ 1'	Total/NA	Solid	E300P	
890-306-4	FL 19 @ 1'	Total/NA	Solid	E300P	
890-306-5	FL 20 @ 1'	Total/NA	Solid	E300P	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Subcontract (Continued)

Prep Batch: 3153319_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-6	FL21 @ 1'	Total/NA	Solid	E300P	
890-306-7	FL22 @ 1'	Total/NA	Solid	E300P	
890-306-8	FL23 @ 1'	Total/NA	Solid	E300P	
890-306-9	FL24 @ 1'	Total/NA	Solid	E300P	
890-306-10	FL25 @ 1'	Total/NA	Solid	E300P	
890-306-11	FL26 @ 1'	Total/NA	Solid	E300P	
890-306-12	FL27 @ 1'	Total/NA	Solid	E300P	
890-306-13	FL28 @ 1'	Total/NA	Solid	E300P	
890-306-14	FL29 @ 1'	Total/NA	Solid	E300P	
890-306-15	FL30 @ 1'	Total/NA	Solid	E300P	
890-306-16	FL31 @ 1'	Total/NA	Solid	E300P	
890-306-17	FL32 @ 1'	Total/NA	Solid	E300P	
890-306-18	FL33 @ 1'	Total/NA	Solid	E300P	
890-306-19	FL34 @ 1'	Total/NA	Solid	E300P	
890-306-20	FL35 @ 1'	Total/NA	Solid	E300P	
7723050-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723050-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723050-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690945-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	
690945-011 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-011 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153432_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-41	FL56 @ 6"	Total/NA	Solid	E300P	
890-306-42	FL57 @ 6"	Total/NA	Solid	E300P	
890-306-43	FL58 @ 6"	Total/NA	Solid	E300P	
890-306-44	FL59 @ 6"	Total/NA	Solid	E300P	
890-306-45	FL60 @ 6"	Total/NA	Solid	E300P	
890-306-46	FL61 @ 6"	Total/NA	Solid	E300P	
890-306-47	FL62 @ 6"	Total/NA	Solid	E300P	
890-306-48	FL63 @ 6"	Total/NA	Solid	E300P	
890-306-49	FL64 @ 6"	Total/NA	Solid	E300P	
890-306-50	FL65 @ 6"	Total/NA	Solid	E300P	
890-306-51	FL66 @ 6"	Total/NA	Solid	E300P	
890-306-52	FL67 @ 6"	Total/NA	Solid	E300P	
890-306-53	FL68 @ 6"	Total/NA	Solid	E300P	
890-306-54	FL69 @ 6"	Total/NA	Solid	E300P	
890-306-55	FL70 @ 6"	Total/NA	Solid	E300P	
890-306-56	EW4	Total/NA	Solid	E300P	
890-306-57	WW3	Total/NA	Solid	E300P	
890-306-58	SW1	Total/NA	Solid	E300P	
890-306-59	SW2	Total/NA	Solid	E300P	
890-306-60	SW3	Total/NA	Solid	E300P	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Subcontract (Continued)

Prep Batch: 3153432_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7723105-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723105-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723105-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690945-041 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-041 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	
690945-051 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-051 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153455_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-1	FL 16 @ 1'	Total/NA	Solid	SW8015P	
890-306-2	FL17 @ 1'	Total/NA	Solid	SW8015P	
890-306-3	FL18 @ 1'	Total/NA	Solid	SW8015P	
890-306-4	FL19 @ 1'	Total/NA	Solid	SW8015P	
890-306-5	FL20 @ 1'	Total/NA	Solid	SW8015P	
890-306-6	FL21 @ 1'	Total/NA	Solid	SW8015P	
890-306-7	FL22 @ 1'	Total/NA	Solid	SW8015P	
890-306-8	FL23 @ 1'	Total/NA	Solid	SW8015P	
890-306-9	FL24 @ 1'	Total/NA	Solid	SW8015P	
890-306-10	FL25 @ 1'	Total/NA	Solid	SW8015P	
890-306-11	FL26 @ 1'	Total/NA	Solid	SW8015P	
890-306-12	FL27 @ 1'	Total/NA	Solid	SW8015P	
890-306-13	FL28 @ 1'	Total/NA	Solid	SW8015P	
890-306-14	FL29 @ 1'	Total/NA	Solid	SW8015P	
890-306-15	FL30 @ 1'	Total/NA	Solid	SW8015P	
890-306-16	FL31 @ 1'	Total/NA	Solid	SW8015P	
890-306-17	FL32 @ 1'	Total/NA	Solid	SW8015P	
890-306-18	FL33 @ 1'	Total/NA	Solid	SW8015P	
890-306-19	FL34 @ 1'	Total/NA	Solid	SW8015P	
890-306-20	FL35 @ 1'	Total/NA	Solid	SW8015P	
7723153-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723153-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723153-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690945-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153458_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-21	FL36 @ 1'	Total/NA	Solid	SW8015P	
890-306-22	FL37 @ 1'	Total/NA	Solid	SW8015P	
890-306-23	FL38 @ 1'	Total/NA	Solid	SW8015P	
890-306-24	FL39 @ 1'	Total/NA	Solid	SW8015P	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
 SDG: 13625

Subcontract (Continued)

Prep Batch: 3153458_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-25	FL40 @ 1'	Total/NA	Solid	SW8015P	
890-306-26	FL41 @ 6"	Total/NA	Solid	SW8015P	
890-306-27	FL42 @ 6"	Total/NA	Solid	SW8015P	
890-306-28	FL43 @ 6"	Total/NA	Solid	SW8015P	
890-306-29	FL44 @ 6"	Total/NA	Solid	SW8015P	
890-306-30	FL45 @ 6"	Total/NA	Solid	SW8015P	
890-306-31	FL46 @ 6"	Total/NA	Solid	SW8015P	
890-306-32	FL47 @ 6"	Total/NA	Solid	SW8015P	
890-306-33	FL48 @ 6"	Total/NA	Solid	SW8015P	
890-306-34	FL49 @ 6"	Total/NA	Solid	SW8015P	
890-306-35	FL50 @ 6"	Total/NA	Solid	SW8015P	
890-306-36	FL51 @ 6"	Total/NA	Solid	SW8015P	
890-306-37	FL52 @ 6"	Total/NA	Solid	SW8015P	
890-306-38	FL53 @ 6"	Total/NA	Solid	SW8015P	
890-306-39	FL54 @ 6"	Total/NA	Solid	SW8015P	
890-306-40	FL55 @ 6"	Total/NA	Solid	SW8015P	
7723155-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723155-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723155-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690945-021 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-021 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153563_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-18	FL33 @ 1'	Total/NA	Solid	SW5035A	
890-306-19	FL34 @ 1'	Total/NA	Solid	SW5035A	
890-306-20	FL35 @ 1'	Total/NA	Solid	SW5035A	
890-306-21	FL36 @ 1'	Total/NA	Solid	SW5035A	
890-306-22	FL37 @ 1'	Total/NA	Solid	SW5035A	
890-306-23	FL38 @ 1'	Total/NA	Solid	SW5035A	
890-306-24	FL39 @ 1'	Total/NA	Solid	SW5035A	
890-306-25	FL40 @ 1'	Total/NA	Solid	SW5035A	
890-306-26	FL41 @ 6"	Total/NA	Solid	SW5035A	
890-306-27	FL42 @ 6"	Total/NA	Solid	SW5035A	
890-306-28	FL43 @ 6"	Total/NA	Solid	SW5035A	
890-306-29	FL44 @ 6"	Total/NA	Solid	SW5035A	
890-306-30	FL45 @ 6"	Total/NA	Solid	SW5035A	
890-306-31	FL46 @ 6"	Total/NA	Solid	SW5035A	
890-306-32	FL47 @ 6"	Total/NA	Solid	SW5035A	
890-306-33	FL48 @ 6"	Total/NA	Solid	SW5035A	
890-306-34	FL49 @ 6"	Total/NA	Solid	SW5035A	
890-306-35	FL50 @ 6"	Total/NA	Solid	SW5035A	
890-306-36	FL51 @ 6"	Total/NA	Solid	SW5035A	
890-306-37	FL52 @ 6"	Total/NA	Solid	SW5035A	
7723266-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723266-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723266-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

Eurofins Carlsbad

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Subcontract (Continued)

Prep Batch: 3153563_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
690945-018 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690945-018 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153564_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-38	FL53 @ 6"	Total/NA	Solid	SW5035A	
890-306-39	FL54 @ 6"	Total/NA	Solid	SW5035A	
890-306-40	FL55 @ 6"	Total/NA	Solid	SW5035A	
890-306-41	FL56 @ 6"	Total/NA	Solid	SW5035A	
890-306-42	FL57 @ 6"	Total/NA	Solid	SW5035A	
890-306-43	FL58 @ 6"	Total/NA	Solid	SW5035A	
890-306-44	FL59 @ 6"	Total/NA	Solid	SW5035A	
890-306-45	FL60 @ 6"	Total/NA	Solid	SW5035A	
890-306-46	FL61 @ 6"	Total/NA	Solid	SW5035A	
890-306-47	FL62 @ 6"	Total/NA	Solid	SW5035A	
890-306-48	FL63 @ 6"	Total/NA	Solid	SW5035A	
890-306-49	FL64 @ 6"	Total/NA	Solid	SW5035A	
890-306-50	FL65 @ 6"	Total/NA	Solid	SW5035A	
890-306-51	FL66 @ 6"	Total/NA	Solid	SW5035A	
890-306-52	FL67 @ 6"	Total/NA	Solid	SW5035A	
890-306-53	FL68 @ 6"	Total/NA	Solid	SW5035A	
890-306-54	FL69 @ 6"	Total/NA	Solid	SW5035A	
890-306-55	FL70 @ 6"	Total/NA	Solid	SW5035A	
890-306-56	EW4	Total/NA	Solid	SW5035A	
890-306-57	WW3	Total/NA	Solid	SW5035A	
7723267-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723267-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723267-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690945-038 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690945-038 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153567_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-1	FL 16 @ 1'	Total/NA	Solid	SW5035A	
890-306-2	FL 17 @ 1'	Total/NA	Solid	SW5035A	
890-306-3	FL 18 @ 1'	Total/NA	Solid	SW5035A	
890-306-4	FL 19 @ 1'	Total/NA	Solid	SW5035A	
890-306-5	FL 20 @ 1'	Total/NA	Solid	SW5035A	
890-306-6	FL 21 @ 1'	Total/NA	Solid	SW5035A	
890-306-7	FL 22 @ 1'	Total/NA	Solid	SW5035A	
890-306-8	FL 23 @ 1'	Total/NA	Solid	SW5035A	
890-306-9	FL 24 @ 1'	Total/NA	Solid	SW5035A	
890-306-10	FL 25 @ 1'	Total/NA	Solid	SW5035A	
890-306-11	FL 26 @ 1'	Total/NA	Solid	SW5035A	
890-306-12	FL 27 @ 1'	Total/NA	Solid	SW5035A	
890-306-13	FL 28 @ 1'	Total/NA	Solid	SW5035A	
890-306-14	FL 29 @ 1'	Total/NA	Solid	SW5035A	
890-306-15	FL 30 @ 1'	Total/NA	Solid	SW5035A	
890-306-16	FL 31 @ 1'	Total/NA	Solid	SW5035A	
890-306-17	FL 32 @ 1'	Total/NA	Solid	SW5035A	
7723263-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	

Eurofins Carlsbad

QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
 SDG: 13625

Subcontract (Continued)

Prep Batch: 3153567_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7723263-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723263-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690945-001 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690945-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153568_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-58	SW1	Total/NA	Solid	SW5035A	
890-306-59	SW2	Total/NA	Solid	SW5035A	
890-306-60	SW3	Total/NA	Solid	SW5035A	
7723264-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723264-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723264-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690945-058 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690945-058 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153691_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-306-41	FL56 @ 6"	Total/NA	Solid	SW8015P	
890-306-42	FL57 @ 6"	Total/NA	Solid	SW8015P	
890-306-43	FL58 @ 6"	Total/NA	Solid	SW8015P	
890-306-44	FL59 @ 6"	Total/NA	Solid	SW8015P	
890-306-45	FL60 @ 6"	Total/NA	Solid	SW8015P	
890-306-46	FL61 @ 6"	Total/NA	Solid	SW8015P	
890-306-47	FL62 @ 6"	Total/NA	Solid	SW8015P	
890-306-48	FL63 @ 6"	Total/NA	Solid	SW8015P	
890-306-49	FL64 @ 6"	Total/NA	Solid	SW8015P	
890-306-50	FL65 @ 6"	Total/NA	Solid	SW8015P	
890-306-51	FL66 @ 6"	Total/NA	Solid	SW8015P	
890-306-52	FL67 @ 6"	Total/NA	Solid	SW8015P	
890-306-53	FL68 @ 6"	Total/NA	Solid	SW8015P	
890-306-54	FL69 @ 6"	Total/NA	Solid	SW8015P	
890-306-55	FL70 @ 6"	Total/NA	Solid	SW8015P	
890-306-56	EW4	Total/NA	Solid	SW8015P	
890-306-57	WW3	Total/NA	Solid	SW8015P	
890-306-58	SW1	Total/NA	Solid	SW8015P	
890-306-59	SW2	Total/NA	Solid	SW8015P	
890-306-60	SW3	Total/NA	Solid	SW8015P	
7723332-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723332-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723332-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
690945-041 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690945-041 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

1

2

3

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Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Method	Method Description	Protocol	Laboratory
300.0	EPA 300.0	EPA	XM
8015B	SW846 8015B TPH ORO	SW846	XM
8021	Volatiles by 8021	SW846	XM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-306-1	FL 16 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-2	FL17 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-3	FL18 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-4	FL19 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-5	FL20 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-6	FL21 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-7	FL22 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-8	FL23 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-9	FL24 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-10	FL25 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-11	FL26 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-12	FL27 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-13	FL28 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-14	FL29 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-15	FL30 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-16	FL31 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-17	FL32 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-18	FL33 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-19	FL34 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-20	FL35 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-21	FL36 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-22	FL37 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-23	FL38 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-24	FL39 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-25	FL40 @ 1'	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-26	FL41 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-27	FL42 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-28	FL43 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-29	FL44 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-30	FL45 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-31	FL46 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-32	FL47 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-33	FL48 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-34	FL49 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-35	FL50 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-36	FL51 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-37	FL52 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-38	FL53 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-39	FL54 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-40	FL55 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-41	FL56 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-42	FL57 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-43	FL58 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-44	FL59 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-45	FL60 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-46	FL61 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-47	FL62 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-48	FL63 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-49	FL64 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-50	FL65 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-51	FL66 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-52	FL67 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-53	FL68 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	

Eurofins Carlsbad

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Patron 23 Fed 4H

Job ID: 890-306-1
SDG: 13625

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-306-54	FL69 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-55	FL70 @ 6"	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-56	EW4	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-57	WW3	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-58	SW1	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-59	SW2	Solid	03/08/21 00:00	03/08/21 15:26	
890-306-60	SW3	Solid	03/08/21 00:00	03/08/21 15:26	



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585 3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Page 1 of 6

Project Manager:	Joel Lowry	Bill to: (if different)	CCG
Company Name:	Etech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lawton, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Patron 23 Fed 4H		Turn Around				ANALYSIS REQUEST										Preservative Codes	
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O	
Project Location:		Rural Eddy co, NM		Due Date:														Cool: Cool MeOH: Me	
Sampler's Name:		Leonel Mojica		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN	
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No		Wet Ice: ☒ Yes ☐ No														H ₃ PO ₄ : HP	
Samples Received Intact:		☒ Yes ☐ No		Thermometer ID:		T-1111-001												NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes ☒ No ☐ N/A		Temperature Reading:		6.6/6.4												Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:														NaOH+Ascorbic Acid: SAPC	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments	
FL16@1'		S	3/8/21		1'	C	1	X	X	X									
FL17@1'		S	3/8/21		1'	C	1	X	X	X									
FL18@1'		S	3/8/21		1'	C	1	X	X	X									
FL19@1'		S	3/8/21		1'	C	1	X	X	X									
FL20@1'		S	3/8/21		1'	C	1	X	X	X									
FL21@1'		S	3/8/21		1'	C	1	X	X	X									
FL22@1'		S	3/8/21		1'	C	1	X	X	X									
FL23@1'		S	3/8/21		1'	C	1	X	X	X									
FL24@1'		S	3/8/21		1'	C	1	X	X	X									
FL25@1'		S	3/8/21		1'	C	1	X	X	X									

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470/7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1.	2.	3:8:21 1526			
3. _____					
5. _____					

Revised Date: 08/25/2020 Rev 2020.2



**Environment Testing
Xenco**

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Page 2 of 6

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: _____

Project Manager:	Joel Lowry	Bill to: (if different)	COG
Company Name:	ETech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2372	Email:	PM@etechenv.com

Project Name:		Patron 23 Fed 4H		Turn Around		ANALYSIS REQUEST																Preservative Codes							
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O					
Project Location:		Rural Eddy co, NM		Due Date:																				Cool: Cool MeOH: Me					
Sampler's Name:		leone! Mojica		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN					
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters Chlorides TPH BTEX																		H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No N/A		Correction Factor:																				Na ₂ S ₂ O ₅ : NaSO ₃					
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments					
FL 26 @ 1'		S	3/8/21		1'	C	1																						
FL 27 @ 1'		S	3/8/21		1'	C	1																						
FL 28 @ 1'		S	3/8/21		1'	C	1																						
FL 29 @ 1'		S	3/8/21		1'	C	1																						
FL 30 @ 1'		S	3/8/21		1'	C	1																						
FL 31 @ 1'		S	3/8/21		1'	C	1																						
FL 32 @ 1'		S	3/8/21		1'	C	1																						
FL 33 @ 1'		S	3/8/21		1'	C	1																						
FL 34 @ 1'		S	3/8/21		1'	C	1																						
FL 35 @ 1'		S	3/8/21		1'	C	1																						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3-8-21 1521			

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 6

Project Manager:	J. Lowry	Bill to: (if different)	COG
Company Name:	Etech Environmental	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Edlington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Patron 23 Fed 4H		Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:		13625		☒ Routine ☐ Rush		Pres. Code														None: NO DI Water: H ₂ O							
Project Location:		Bural Fidelity Co, NM		Due Date:																Cool: Cool MeOH: Me							
Sampler's Name:		Leonel Moya		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN							
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters														H ₃ PO ₄ : HP			
Samples Received Intact:		Yes No		Thermometer ID:																NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC							
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont														Sample Comments	
FL36@1'		S		3/8/21				1'		C		1		Chlorides													
FL37@1'		S		3/8/21				1'		C		1		BTEX													
FL38@1'		S		3/8/21				1'		C		1		TPH													
FL39@1'		S		3/8/21				1'		C		1															
FL40@1'		S		3/8/21				1'		C		1															
FL41@6"		S		3/8/21				6"		C		1															
FL42@6"		S		3/8/21				6"		C		1															
FL43@6"		S		3/8/21				6"		C		1															
FL44@6"		S		3/8/21				6"		C		1															
FL45@6"		S		3/8/21				6"		C		1															

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3-8-21 1521			

Revised Date: 08/25/2020 Rev. 2020 2



**Environment Testing
Xenco**

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 6

Project Manager:	<u>Joel Lowry</u>	Bill to: (if different)	<u>COG</u>
Company Name:	<u>E Tech Environmental</u>	Company Name:	
Address:	<u>3100 Plains Hwy</u>	Address:	
City, State ZIP:	<u>Lawton, NM 88260</u>	City, State ZIP:	
Phone:	<u>575-396-2378</u>	Email:	<u>PM@etechenv.com</u>

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		<u>Latton 13 Feb 4H</u>		Turn Around		ANALYSIS REQUEST																Preservative Codes							
Project Number:		<u>13625</u>		☒ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O					
Project Location:		<u>Rural Eddyco, NM</u>		Due Date:																				Cool: Cool MeOH: Me					
Sampler's Name:		<u>Leonel Mojica</u>		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN					
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters <u>Chlorides</u> <u>BTEX</u> <u>TPH</u>																		H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No N/A		Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments						
FL46@6"	S	3/8/21		6"	C	1	X																						
FL47@6"	S	3/8/21		6"	C	1	X																						
FL48@6"	S	3/8/21		6"	C	1	X																						
FL49@6"	S	3/8/21		6"	C	1	X																						
FL50@6"	S	3/8/21		6"	C	1	X																						
FL51@6"	S	3/8/21		6"	C	1	X																						
FL52@6"	S	3/8/21		6"	C	1	X																						
FL53@6"	S	3/8/21		6"	C	1	X																						
FL54@6"	S	3/8/21		6"	C	1	X																						
FL55@6"	S	3/8/21		6"	C	1	X																						

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470/7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>3-8-21 1526</u>			



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 5 of 6

Project Manager:	<u>Joel Lowry</u>	Bill to: (if different)	<u>COG</u>
Company Name:	<u>ETech Environmental</u>	Company Name:	
Address:	<u>3100 Plains Hwy</u>	Address:	
City, State ZIP:	<u>Lovington NM 88260</u>	City, State ZIP:	
Phone:	<u>515-396-2377</u>	Email:	<u>PM@etechenv.com</u>

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		<u>Baton 23 Fed 4H</u>		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number:		<u>13675</u>		☐ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O							
Project Location:		<u>Rural Eddy, CO, NM</u>		Due Date:																				Cool: Cool MeOH: Me							
Sampler's Name:		<u>Leonel Aguila</u>		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN							
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters																		H ₃ PO ₄ : HP			
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes No N/A		Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC							
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont																		Sample Comments	
FL56 @ 6"		S		3/8/21				6"		C		1		XXXXXX Chlorides																	
FL57 @ 6"		S		3/8/21				6"		C		1		XXXXXX BTX																	
FL58 @ 6"		S		3/8/21				6"		C		1		XXXXXX TPH																	
FL59 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	
FL60 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	
FL61 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	
FL62 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	
FL63 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	
FL64 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	
FL65 @ 6"		S		3/8/21				6"		C		1		XXXXXX																	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

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<u>[Signature]</u>	<u>[Signature]</u>	<u>3-8-21 1526</u>			

Revised Date: 08/25/2020 Rev. 2020.2



**Environment Testing
Xenco**

Chain of Custody

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 6 of 6

Project Manager:	<u>Toel Lowery</u>	Bill to: (if different)	<u>COG</u>
Company Name:	<u>ETech Environmental</u>	Company Name:	
Address:	<u>3100 Plains Hwy</u>	Address:	
City, State ZIP:	<u>Lawton, NM 88260</u>	City, State ZIP:	
Phone:	<u>505-396-2378</u>	Email:	<u>PM@etechenv.com</u>

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		<u>Purol 23 Fed 4H</u>		Turn Around		ANALYSIS REQUEST																Preservative Codes							
Project Number:		<u>4805 / 3625</u>		☒ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O					
Project Location:		<u>Rural Eddyco, NM</u>		Due Date:																				Cool: Cool MeOH: Me					
Sampler's Name:		<u>Leonel Mojica</u>		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN					
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters <u>Chlorides</u> <u>BTEX</u> <u>TPH</u>																		H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No N/A		Correction Factor:		<u>See Pg</u>																		Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments					
FL66 @ 6"		S	3/8/21		6"	C	1																						
FL67 @ 6"		S	3/8/21		6"	C	1																						
FL68 @ 6"		S	3/8/21		6"	C	1																						
FL69 @ 6"		S	3/8/21		6"	C	1																						
FL70 @ 6"		S	3/8/21		6"	C	1																						
EW4		S	3/8/21		1	C	1																						
WW3		S	3/8/21		1	C	1																						
GW1		S	3/8/21		1	C	1																						
GW2		S	3/8/21		1	C	1																						
GW3		S	3/8/21		1	C	1																						

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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<u>[Signature]</u>	<u>[Signature]</u>	<u>3-8-21 1524</u>			

Revised Date: 08/25/2020 Rev. 2020.2

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: South	
Photo Description: Release Area	

Photo Number: 2	
Photo Direction: South-Southwest	
Photo Description: Release Area	

Photographic Log

Photo Number: 3	 01 Dec 2020, 11:17:01
Photo Direction: Southwest	
Photo Description: Release Area	

Photo Number: 4	 01 Dec 2020, 11:23:59
Photo Direction: South-Southeast	
Photo Description: Release Area	

Photographic Log

Photo Number: 5	
Photo Direction: Southeast	
Photo Description: Release Area	

Photo Number: 6	
Photo Direction: East-Southeast	
Photo Description: Release Area	

Photographic Log

Photo Number: 7	
Photo Direction: South	
Photo Description: Release Area	

Photo Number: 8	
Photo Direction: South	
Photo Description: Excavation	

Photographic Log

Photo Number: 9	
Photo Direction: Northwest	
Photo Description: Excavation	

Photo Number: 10	
Photo Direction: West	
Photo Description: Excavation	

Photographic Log

Photo Number: 11	
Photo Direction: Northwest	
Photo Description: Excavation	

Photo Number: 12	
Photo Direction: Southwest	
Photo Description: Excavation	

Photographic Log

Photo Number: 13	
Photo Direction: East	
Photo Description: Excavation	

Photo Number: 14	
Photo Direction: Southwest	
Photo Description: Remediated Area (After Backfilling & Regrading)	

Photographic Log

Photo Number: 15	
Photo Direction: South-Southeast	
Photo Description: Remediated Area (After Backfilling & Regrading)	

Photo Number: 16	
Photo Direction: Southwest	
Photo Description: Remediated Area (After Backfilling & Regrading)	

Photographic Log

Photo Number: 17	Network: Mar 23, 2021 at 4:14:24 PM MDT Local: Mar 23, 2021 at 4:14:24 PM MDT N 32° 7' 20.652", W 103° 56' 56.955" Carlsbad NM 88220 United States 
Photo Direction: East	
Photo Description: Remediated Area (After Backfilling & Regrading)	

Photo Number: 18	Network: Mar 23, 2021 at 4:14:28 PM MDT Local: Mar 23, 2021 at 4:14:28 PM MDT N 32° 7' 20.652", W 103° 56' 56.955" Carlsbad NM 88220 United States 
Photo Direction: Southeast	
Photo Description: Remediated Area (After Backfilling & Regrading)	

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature:  Date: 4/15/21

email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 7/30/2021

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

Closure Approved by: Robert Hamlet Date: 7/30/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 31754

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 31754
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2034558291 PATRON 23 FEDERAL 004H, thank you. This closure is approved.	7/30/2021