

Incident ID	nRM2009842331
District RP	
Facility ID	
Application ID	

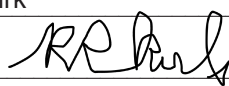
Closure

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

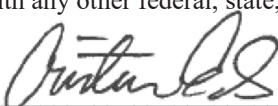
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: Rob Kirk Title: General Manager, HSE & Compliance
Signature:  Date: 01/13/2021
email: rob.kirk@solarismidstream.com Telephone: (432)203-9020

OCD Only

Received by: Cristina Eads Date: 01/14/2021

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:  Date: 04/07/2021

Printed Name: Cristina Eads Title: Environmental Specialist

Remediation Summary & Soil Closure Request

Solaris Water Midstream, LLC Bronco II Incident

Lea County, New Mexico
Unit Letter C, Section 14, Township 24 South, Range 34 East
Latitude 32.22247 North, Longitude 103.44431 West
NMOCD Reference No. nRM2009842331

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 Solaris Water Midstream, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Bronco II Incident. Details of the release are summarized below:

Location of Release Source

Latitude: 32.22247 Longitude: -103.44431

Provided GPS are in WGS84 format.

Site Name:	Bronco II Incident	Site Type:	Water Recycling
Date Release Discovered:	4/3/2020	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
C	14	24S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Quail Ranch, LLC)

Nature and Volume of Release

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 69	Volume Recovered (bbls) 40
	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:

An employee was removing unused equipment and parts and mistakenly disconnected a collar on an active pipeline, leading to the release. The line was turned off, and the fitting was reconnected, stopping the release.

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 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 release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	~60 ft		
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) 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 Reclamation Standards for the site are as follows:

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
95 feet	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 REMEDIATION ACTIVITIES SUMMARY

On July 2, 2020, 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 soil impacts. 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 soil impacts. 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 a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, ten (10) delineation soil samples (NH @ Surface, NH @ 1', EH @ Surface, EH @ 1', SH @ Surface, SH @ 1', WH @ Surface, WH @ 1', SP1 @ Surface, and SP1 @ 4'-R) were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Based on laboratory analytical results, the horizontal and vertical extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

On August 3, 2020, remediation activities commenced at the site. Olfactory/visual senses and a chloride test kit were utilized to determine the horizontal and vertical extent of soil impacts. 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-approved surface waste facility for disposal.

Etech collected twelve (12) excavation confirmation soil samples (EW1b, EW2, WW1, WW1b, WW2, WW3, FL1 @ 4', FL2 @ 4', FL3 @ 4', FL4 @ 4', FL5 @ 4', and FL6 @ 3'). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On August 4, 2020, Etech collected fifteen (15) excavation confirmation soil samples (NW1, NW2, EW2b, EW3, WW2b, WW3b, WW4, WW5, FL7 @ 3', FL8 @ 3', FL9 @ 3', FL10 @ 4', FL11 @ 4', FL12 @ 4', and FL13 @ 4'). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On August 5, 2020, Etech collected fifteen (15) excavation confirmation soil samples (NW3, NW4, FL14 @ 2', FL15 @ 3', FL16 @ 3', FL17 @ 3', FL18 @ 3', FL19 @ 3', FL20 @ 3', FL21 @ 3', FL22 @ 3', FL23 @ 4', FL24 @ 4', FL25 @ 4', and FL26 @ 4'). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On August 6, 2020, Etech collected eighteen (18) excavation confirmation soil samples (NW5, EW1, EW4, EW6, EW7, EW8, SW1, SW2, WW6, FL27 @ 4', FL28 @ 4', FL29 @ 4', FL30 @ 4', FL31 @ 4', FL32 @ 4', FL33 @ 4', FL34 @ 4', and FL35 @ 4'). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On August 7, 2020, Etech collected three (3) excavation confirmation soil samples (EW5, SW3, and SW4). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

Additional excavation of impacted soil was temporarily hindered by the presence of active lay-flat lines to the south of the areas characterized by soil samples FL1, FL7, and FL12.

On August 13 and 14, 2020, based on laboratory analytical results, portions of the open excavation were backfilled to prevent injury to oilfield personnel, livestock, and/or wildlife, pending the necessary relocation of lay-flat lines and associated surface equipment to facilitate the completion of remediation activities.

On December 2, 2020, following relocation of the lay-flat lines, Etech resumed remediation activities at the site. The excavation was advanced to the south of the areas characterized by soil samples FL1, FL7, and FL12 and to the east in the area characterized by soil sample EW5. Olfactory/visual senses and a chloride test kit were utilized to determine the horizontal and vertical extent of soil impacts. Excavated soil was stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal.

On December 3, 2020, Etech collected nine (9) excavation confirmation soil samples (EW5, EW10, SW5, SW7, FL36 @ 4', FL39 @ 4', FL40 @ 4', FL41 @ 4', and FL42 @ 4'). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 4, 2020, Etech collected six (6) excavation confirmation soil samples (EW9, SW6, WW7, WW8, FL37 @ 4', and FL38 @ 4'). 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 and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

The final dimensions of the excavated areas were 90 to 178 feet in length, 14 to 43 feet in width, and 2 to 4 feet in depth. During the course of remediation activities, approximately 1,552 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

Soil sample locations are depicted in Figures 3A and 3B. A soil chemistry table is provided as 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 release site are provided in Appendix D.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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. The affected area was contoured and compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

6.0 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-approved disposal facility. Laboratory analytical results from confirmation soil samples indicated concentrations of BTEX, TPH and chloride were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Solaris Water Midstream, LLC, provide copies of this Remediation Summary & Soil Closure Request to the appropriate agencies and request closure be granted to the Bronco II Incident Site.

7.0 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 Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

8.0 DISTRIBUTION

Solaris Water Midstream, LLC

907 Tradewinds Blvd

Ste B

Midland, TX 79706

New Mexico Energy, Minerals and Natural Resources Department

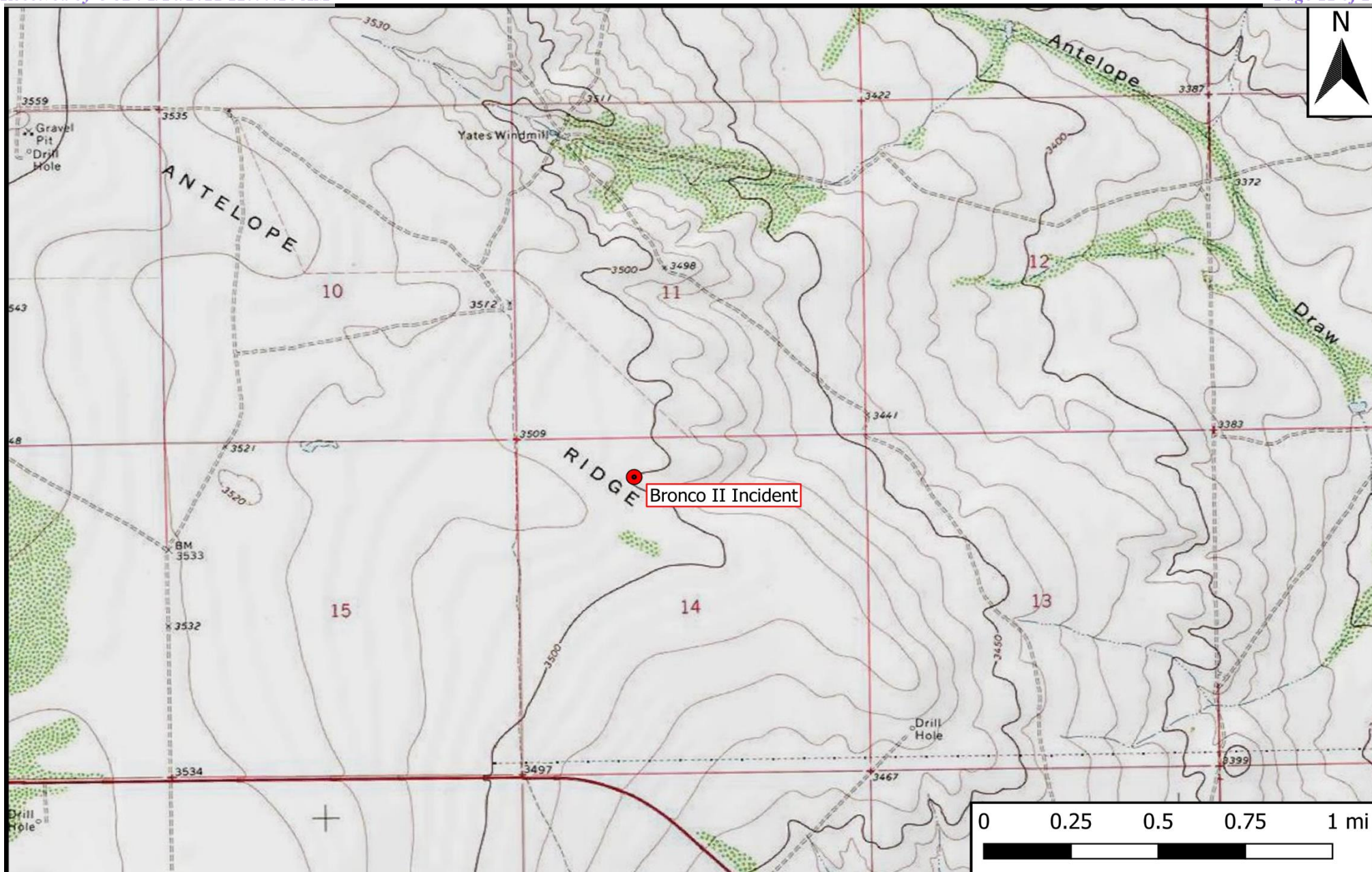
Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

Figure 1

Topographic Map



Legend

-  Site Location

Figure 1

Topographic Map
Solaris Water Midstream, LLC
Bronco II Incident
GPS: 32.22247, -103.44431
Lea County



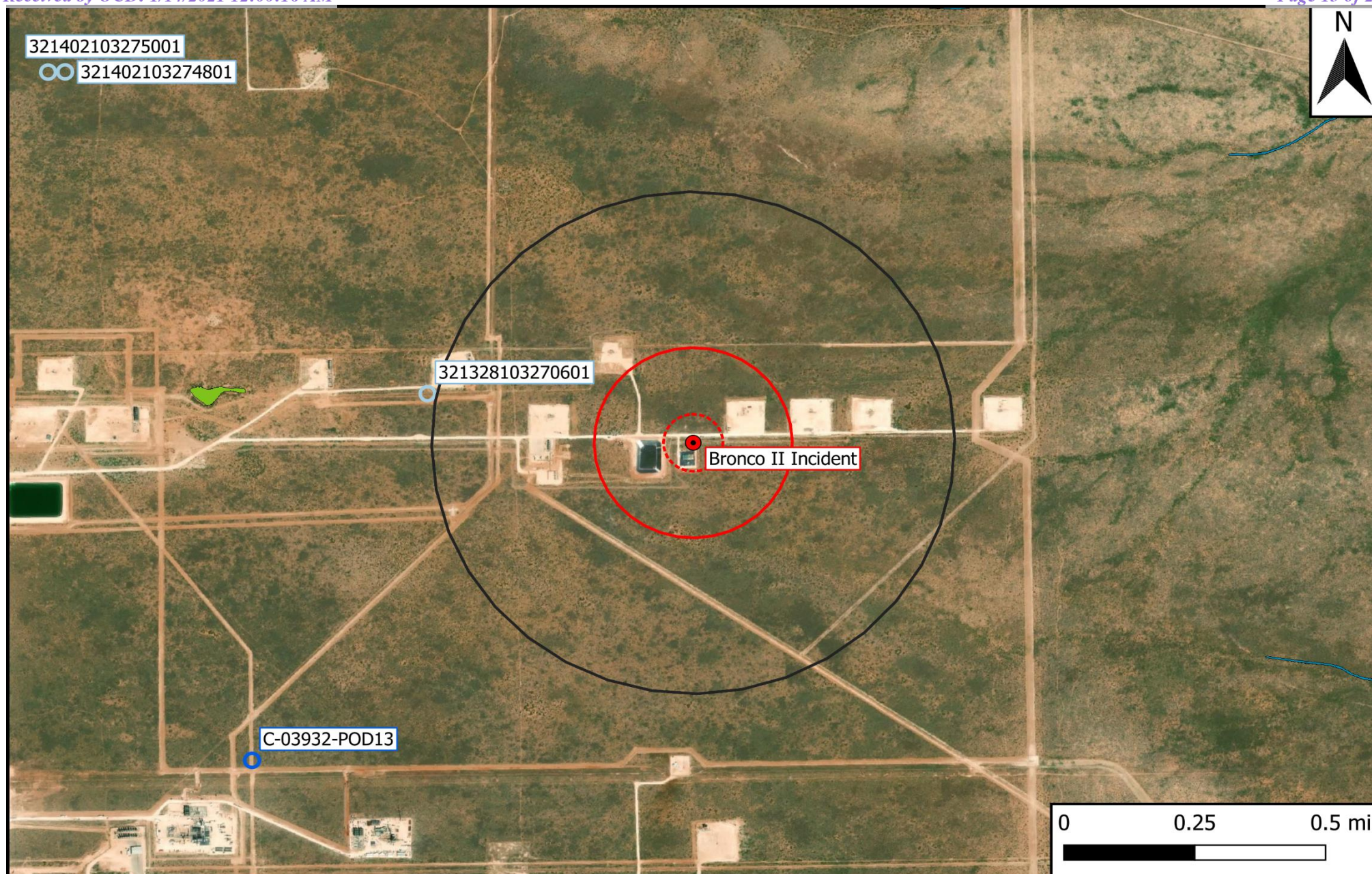
Drafted: bja

Checked: jwl

Date: 12/10/20

Figure 2

Aerial Proximity Map



Legend

- | | |
|----------------------|--------------------------------|
| ● Site Location | --- 300-Ft Radius |
| ○ Well - NMOSE | --- 1,000-Ft Radius |
| ○ Well - USGS | --- 0.5-Mi Radius |
| High Karst | --- 1% Annual Flood Chance |
| Medium Karst | --- Lake/Freshwater Pond |
| Potash Mine Workings | --- Emergent/Forested Wetlands |
| | --- Riverine |

Figure 2

Aerial Map
 Solaris Water Midstream, LLC
 Bronco II Incident
 GPS: 32.22247, -103.44431
 Lea County

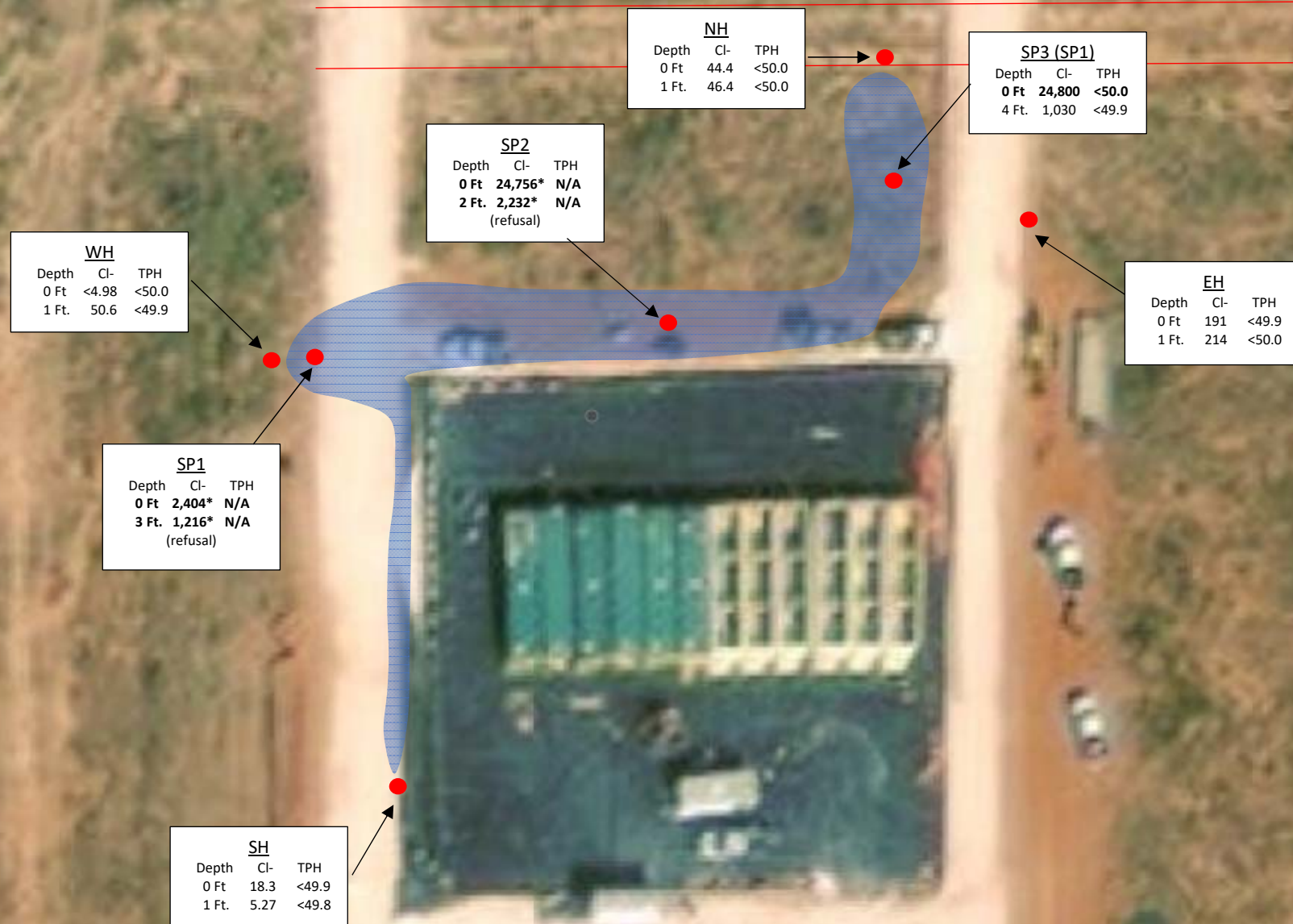


Drafted: bja

Checked: jwl

Date: 1/5/21

Figure 3A
Site & Sample Location Map (Delineation)

**Legend:**

- Sample Point
- Affected Area
- Buried Pipeline

Notes: * Denotes Field Test Results Only

Figure 3A

Site and Sample Location Map (Delineation)
 Solaris Water Midstream, LLC
 Bronco II Incident
 GPS: 32.22247, -103.44431
 Lea County

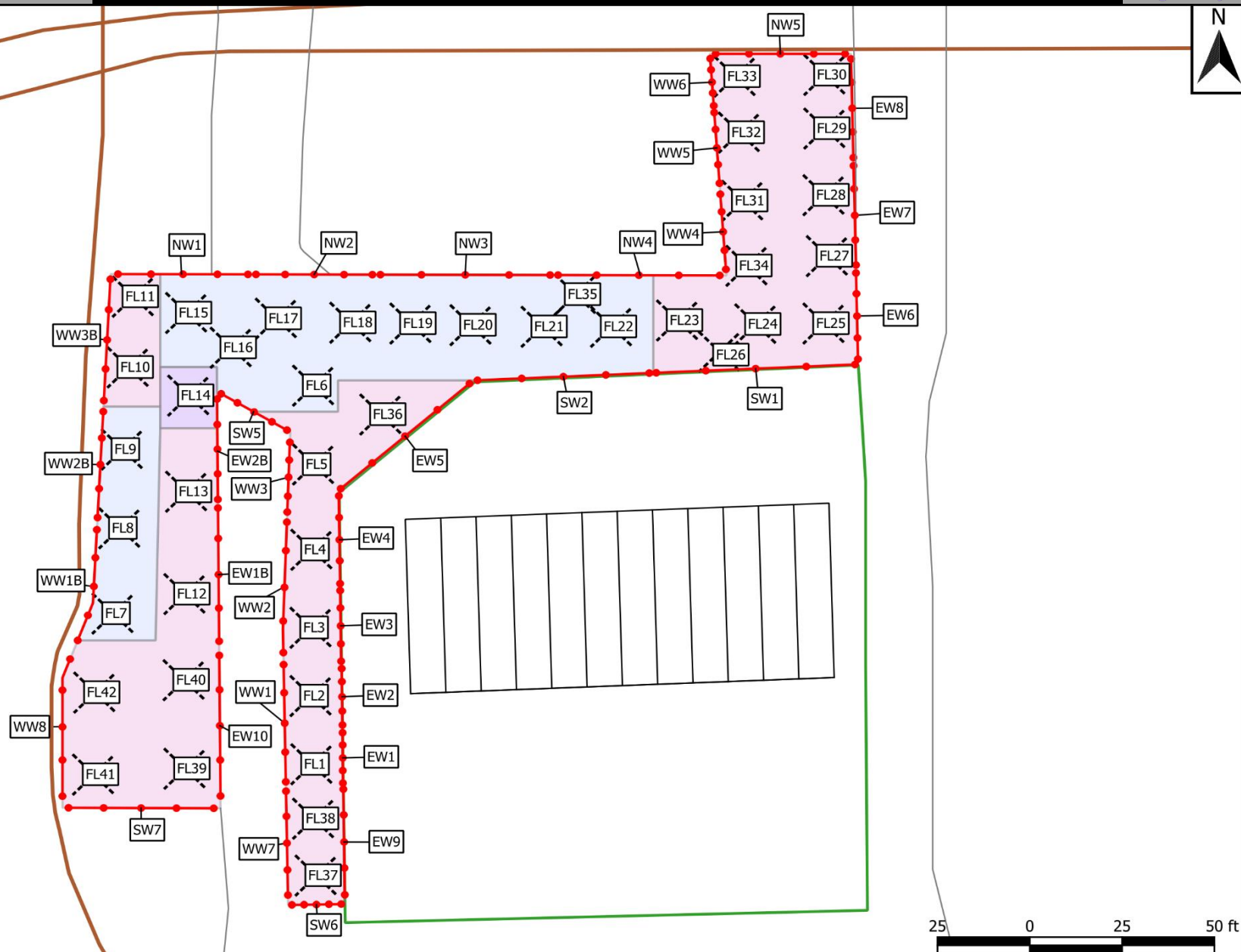


Drafted: jwl

Checked: lc

Date: 7/14/20

Figure 3B
Site & Sample Location Map (Excavation)



Legend

- Excavation (2' bgs)
- Excavation (3' bgs)
- Excavation (4' bgs)
- Containment Area
- Frac Tank
- Composite Floor Sample
- Composite Wall Sample
- Caliche Road/Pad
- Pipeline

Figure 3B

Site and Sample Location Map (Excavation)

Solaris Water Midstream, LLC

Bronco II Incident

GPS: 32.22247, -103.44431

Lea County



Drafted: bja

Checked: jwl

Date:

1/7/21

Table 1
Concentrations of Benzene, BTEX, TPH & Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Solaris Water Midstream, LLC
Bronco II Incident
NMOCD Ref. #: nRM2009842331

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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)
NH @ Surface	7/2/2020	Surface	In-Situ	0.00356	0.0172	<50.0	<50.0	<50.0	<50.0	<50.0	44.1
NH @ 1'	7/2/2020	1'	In-Situ	0.00264	0.0110	<50.0	<50.0	<50.0	<50.0	<50.0	46.4
EH @ Surface	7/2/2020	Surface	In-Situ	0.0103	0.0383	<49.9	<49.9	<49.9	<49.9	<49.9	191
EH @ 1'	7/2/2020	1'	In-Situ	0.00259	0.0108	<50.0	<50.0	<50.0	<50.0	<50.0	214
SH @ Surface	7/2/2020	Surface	In-Situ	<0.00200	0.00585	<49.9	<49.9	<49.9	<49.9	<49.9	18.3
SH @ 1'	7/2/2020	1'	In-Situ	<0.00198	0.00273	<49.8	<49.8	<49.8	<49.8	<49.8	5.27
WH @ Surface	7/2/2020	Surface	In-Situ	0.00633	0.0292	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
WH @ 1'	7/2/2020	1'	In-Situ	<0.00198	0.00358	<49.9	<49.9	<49.9	<49.9	<49.9	50.6
SP1 @ Surface	7/2/2020	Surface	Excavated	<0.00199	0.00306	<50.0	<50.0	<50.0	<50.0	<50.0	24,800
SP1 @ 4'-R	7/2/2020	4'	In-Situ	<0.00200	0.00255	<49.9	<49.9	<49.9	<49.9	<49.9	1,030
EW1b	8/3/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00
EW2	8/3/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	6.15
WW1	8/3/2020	0' - 4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	7.71
WW1b	8/3/2020	0' - 3'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	31.9
WW2	8/3/2020	0' - 4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	8.12
WW3	8/3/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	15.4
FL1 @ 4'	8/3/2020	4'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	11.1
FL2 @ 4'	8/3/2020	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	19.9
FL3 @ 4'	8/3/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	42.0
FL4 @ 4'	8/3/2020	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	40.4
FL5 @ 4'	8/3/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	11.1
FL6 @ 3'	8/3/2020	3'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	44.8
NW1	8/4/2020	0' - 3'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	14.6
NW2	8/4/2020	0' - 3'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	10.3
EW2b	8/4/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
EW3	8/4/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<4.95
WW2b	8/4/2020	0' - 3'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	30.2
WW3b	8/4/2020	0' - 4'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	25.5
WW4	8/4/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99
WW5	8/4/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
FL7 @ 3'	8/4/2020	3'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	347
FL8 @ 3'	8/4/2020	3'	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	288
FL9 @ 3'	8/4/2020	3'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	414
FL10 @ 4'	8/4/2020	4'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	625
FL11 @ 4'	8/4/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,930
FL12 @ 4'	8/4/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,340
FL13 @ 4'	8/4/2020	4'	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	1,060
NW3	8/5/2020	0' - 3'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	13.3
NW4	8/5/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	75.7
FL14 @ 2'	8/5/2020	2'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	177
FL15 @ 3'	8/5/2020	3'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	190

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
Solaris Water Midstream, LLC
Bronco II Incident
NMOCD Ref. #: nRM2009842331

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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)
FL16 @ 3'	8/5/2020	3'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	25.1
FL17 @ 3'	8/5/2020	3'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	25.1
FL18 @ 3'	8/5/2020	3'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	33.9
FL19 @ 3'	8/5/2020	3'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	19.4
FL20 @ 3'	8/5/2020	3'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	34.9
FL21 @ 3'	8/5/2020	3'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	42.2
FL22 @ 3'	8/5/2020	3'	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	<4.99
FL23 @ 4'	8/5/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	4,140
FL24 @ 4'	8/5/2020	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	3,190
FL25 @ 4'	8/5/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	3,230
FL26 @ 4'	8/5/2020	4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	3,080
NW5	8/6/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	258
EW1	8/6/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	69.2
EW4	8/6/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	130
EW6	8/6/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	119
EW7	8/6/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	12.4
EW8	8/6/2020	0' - 4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	29.2
SW1	8/6/2020	0' - 4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	299
SW2	8/6/2020	0' - 3'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	11.1
WW6	8/6/2020	0' - 4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	37.0
FL27 @ 4'	8/6/2020	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	4,780
FL28 @ 4'	8/6/2020	4'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	3,990
FL29 @ 4'	8/6/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	4,760
FL30 @ 4'	8/6/2020	4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	889
FL31 @ 4'	8/6/2020	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	2,130
FL32 @ 4'	8/6/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,290
FL33 @ 4'	8/6/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,820
FL34 @ 4'	8/6/2020	4'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	1,520
FL35 @ 4'	8/6/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,110
EW5	8/7/2020	0' - 4'	Excavated	<0.00200	0.00301	<50.0	<50.0	<50.0	<50.0	<50.0	5,920
SW3	8/7/2020	0' - 3'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	2,580
SW4	8/7/2020	0' - 3'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	808
EW5	12/3/2020	0' - 4'	In-Situ	<0.00198	<0.001980	<50.3	<50.3	<50.3	<50.3	<50.3	49.5
EW10	12/3/2020	0' - 4'	In-Situ	<0.00200	<0.002000	<49.8	<49.8	<49.8	<49.8	<49.8	<9.98
SW5	12/3/2020	0' - 4'	In-Situ	<0.00199	<0.001990	<50.2	<50.2	<50.2	<50.2	<50.2	56.8
SW7	12/3/2020	0' - 4'	In-Situ	<0.00198	<0.001980	<50.2	<50.2	<50.2	<50.2	<50.2	67.4
FL36 @ 4'	12/3/2020	4'	In-Situ	<0.00199	<0.001990	<49.9	<49.9	<49.9	<49.9	<49.9	737
FL39 @ 4'	12/3/2020	4'	In-Situ	<0.00198	<0.001980	<49.9	<49.9	<49.9	<49.9	<49.9	4,030
FL40 @ 4'	12/3/2020	4'	In-Situ	<0.00202	<0.002020	<50.1	<50.1	<50.1	<50.1	<50.1	542
FL41 @ 4'	12/3/2020	4'	In-Situ	<0.00202	<0.002020	<50.1	<50.1	<50.1	<50.1	<50.1	293
FL42 @ 4'	12/3/2020	4'	In-Situ	<0.00201	<0.002010	<50.2	<50.2	<50.2	<50.2	<50.2	927

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
Solaris Water Midstream, LLC
Bronco II Incident
NMOCD Ref. #: nRM2009842331

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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)
EW9	12/4/2020	0' - 4'	In-Situ	<0.00200	<0.002000	<50.2	<50.2	<50.2	<50.2	<50.2	33.2
SW6	12/4/2020	0' - 4'	In-Situ	<0.00201	<0.002010	<49.8	<49.8	<49.8	<49.8	<49.8	24.1
WW7	12/4/2020	0' - 4'	In-Situ	<0.00199	<0.001990	<50.2	<50.2	<50.2	<50.2	<50.2	48.6
WW8	12/4/2020	0' - 4'	In-Situ	<0.00199	<0.001990	<49.9	<49.9	<49.9	<49.9	<49.9	<9.98
FL37 @ 4'	12/4/2020	4'	In-Situ	<0.00198	<0.001980	<49.8	<49.8	<49.8	<49.8	<49.8	1,200
FL38 @ 4'	12/4/2020	4'	In-Situ	<0.00200	<0.002000	<50.3	<50.3	<50.3	<50.3	<50.3	1,310

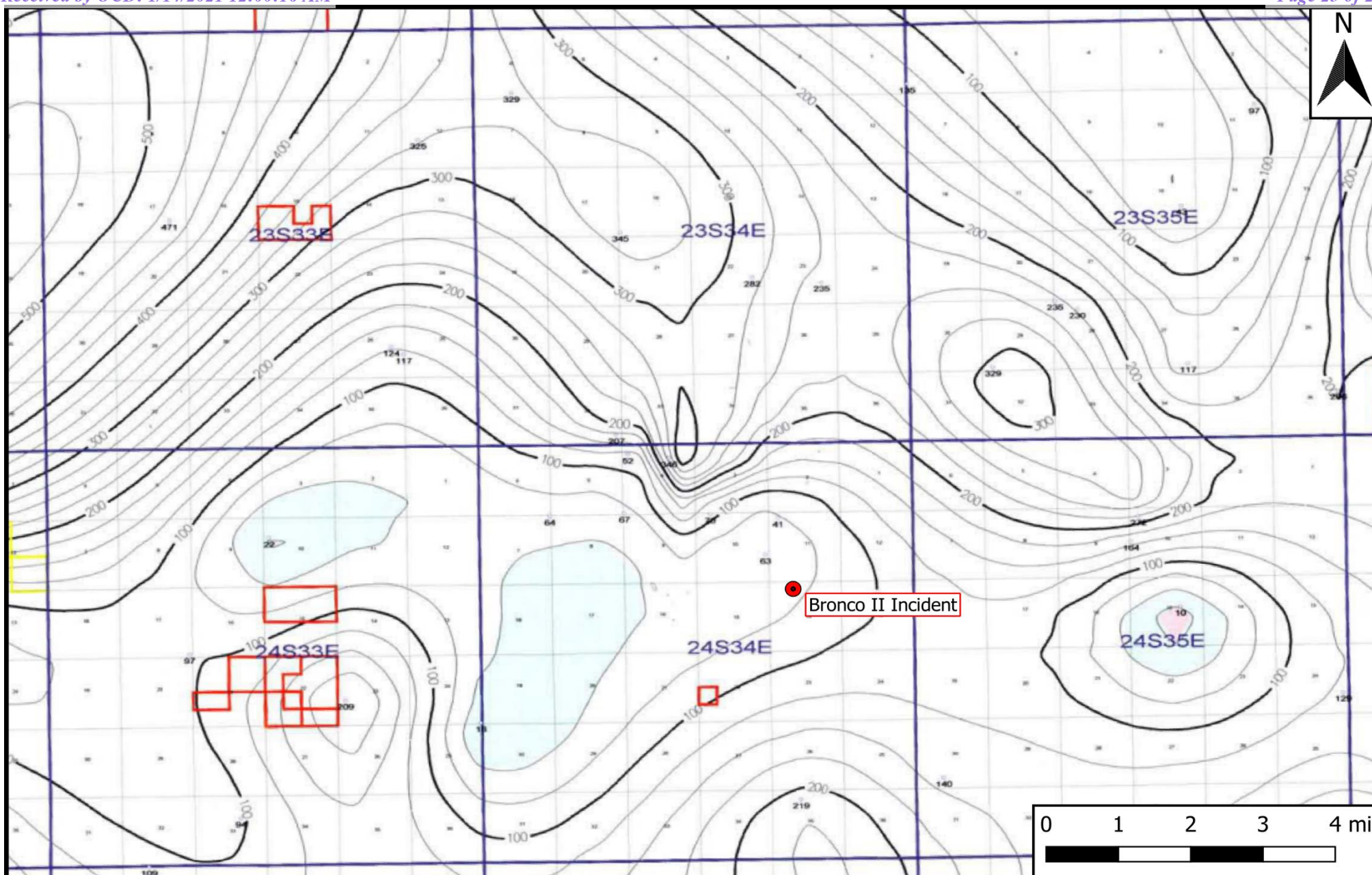
NOTES:

- = 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
 Solaris Water Midstream, LLC
 Bronco II Incident
 GPS: 32.22247, -103.44431
 Lea County



Drafted: bja

Checked: jwl

Date: 12/11/20



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 02387		CUB	LE	1	11	24	S	34	E	646513	3567613*	1400	62	40	22
Average Depth to Water:														40 feet	
Minimum Depth:														40 feet	
Maximum Depth:														40 feet	

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 646671.13

Northing (Y): 3566221.33

Radius: 1610

*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.

7/2/20 9:19 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



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 02387		CUB	LE			1	11	24S	34E	646513	3567613*	1400	62	40	22
C 03932 POD13		CUB	LE	4	2	3	15	24S	34E	645314	3565203	1696	90		
C 03943 POD1		CUB	LE	2	4	2	21	24S	34E	644523	3564266	2904	610	431	179
Average Depth to Water:														235 feet	
Minimum Depth:														40 feet	
Maximum Depth:														431 feet	

Record Count: 3

UTM NAD83 Radius Search (in meters):

Easting (X): 646671.13

Northing (Y): 3566221.33

Radius: 3220

*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.

7/2/20 12:10 PM

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	02387	1	11	24S	34E	646513	3567613*		

x

Driller License:**Driller Company:****Driller Name:** UNKNOWN**Drill Start Date:****Drill Finish Date:** 12/31/1916**Plug Date:****Log File Date:****PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:** 3 GPM**Casing Size:** 6.00**Depth Well:** 62 feet**Depth Water:** 40 feet

x

*UTM location was derived from PLSS - see Help

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7/2/20 9:20 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)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03932 POD13	4	2	3	15	24S	34E	645314	3565203 

x

Driller License: 1222 **Driller Company:** PETERSON DRILLING & TESTING INC.

Driller Name: LEE PETERSON

Drill Start Date: 02/10/2016

Drill Finish Date: 02/11/2016

Plug Date:

Log File Date: 03/01/2016

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 90 feet

Depth Water:

x

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.

7/2/20 12:11 PM

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)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03943 POD1	2	4	2	21	24S	34E	644523	3564266

x

Driller License: 1737 **Driller Company:** SHADE TREE DRILLING

Driller Name: JUSTIN MULLINS

Drill Start Date: 04/21/2016

Drill Finish Date: 04/24/2016

Plug Date:

Log File Date: 04/25/2016

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 6.00

Depth Well: 610 feet

Depth Water: 431 feet

x

Water Bearing Stratifications:

Top	Bottom	Description
39	431	Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top	Bottom
420	480

x

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.

7/2/20 12:11 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S)			
	S15-BH-03				C 03932			
	WELL OWNER NAME(S)				PHONE (OPTIONAL)			
	Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder							
	WELL OWNER MAILING ADDRESS				CITY STATE ZIP			
4222 85th Street				Lubbock Texas 79423				
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
	LATITUDE	32	12					50.55 N
	LONGITUDE	103	27	28.96 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	WD-1222		Lee Peterson			Peterson Drilling & Testing, Inc.		
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT)	
	02/10/16		02/11/16				90'	
	COMPLETED WELL IS:		STATIC WATER LEVEL IN COMPLETED WELL (FT)					
	☐ ARTESIAN		☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					
	DRILLING FLUID:		ADDITIVES - SPECIFY:					
	☒ AIR ☐ MUD							
	DRILLING METHOD:		OTHER - SPECIFY:					
	☒ ROTARY ☐ HAMMER ☐ CABLE TOOL							
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM	TO							
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

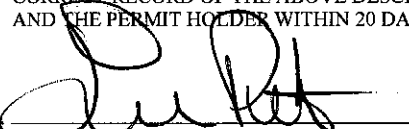
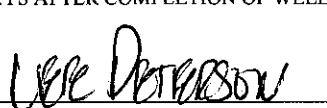
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.15.4.2.3			EXPL	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	 DATE: 2/26/16

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.13.4-2-3			EXPL.	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD13

Mar. 28, 2016

ROBERT H HOLDER
BRYCE KRAGER
4222 85TH ST
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Dunaway".

Deborah Dunaway
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) S15-BH-03				OSE FILE NUMBER(S) C 03932			
	WELL OWNER NAME(S) Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4222 85th Street				CITY Lubbock		STATE Texas	ZIP 79423
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE		MINUTES 32	SECONDS 12	50.55	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE		103	27	28.96	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1222		NAME OF LICENSED DRILLER Lee Peterson				NAME OF WELL DRILLING COMPANY Peterson Drilling & Testing, Inc.	
	DRILLING STARTED 02/10/16		DRILLING ENDED 02/11/16		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 90'	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)						DEPTH WATER FIRST ENCOUNTERED (FT)	
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:						STATIC WATER LEVEL IN COMPLETED WELL (FT)	
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	245.34E 15.3.2.4				EXP/
					PAGE 1 OF 2

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 <u>LEE PATTERSON</u> SIGNATURE OF DRILLER / PRINT SIGNEE NAME					<u>2/26/16</u> DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.13.3-2-4			EXPL	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD13

Apr. 12, 2016

ROBERT H. HOLDER
BRYCE KARGER
4222 85TH ST.
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

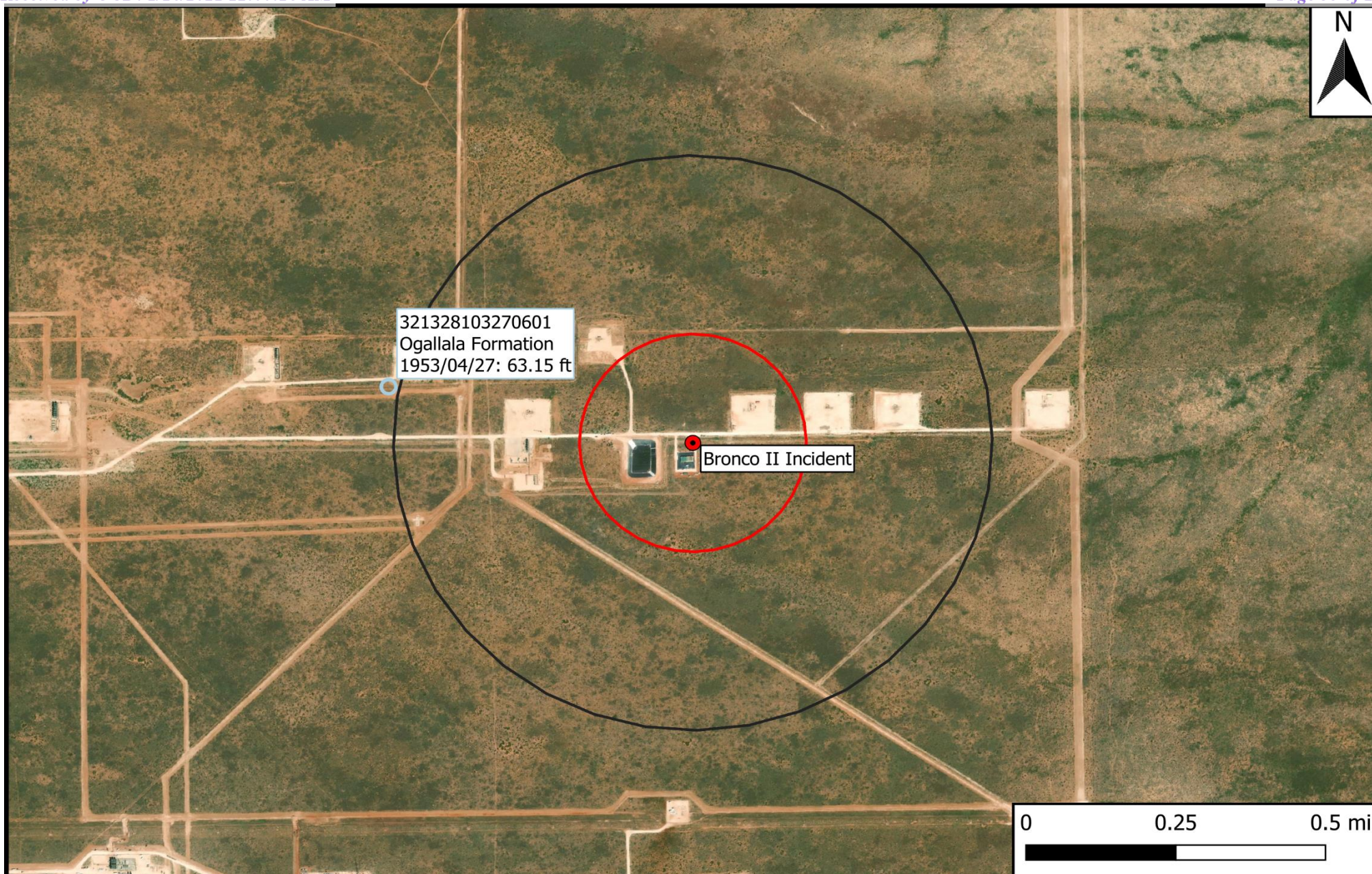
Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway
(575) 622-6521

drywell

**Legend**

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

Figure 5

USGS Well Proximity Map
Solaris Water Midstream, LLC
Bronco II Incident
GPS: 32.22247, -103.44431
Lea County



Drafted: bja

Checked: jwl

Date: 1/5/21



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321328103270601

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321328103270601 24S.34E.10.42243

Lea County, New Mexico
Latitude 32°13'28", Longitude 103°27'06" NAD27
Land-surface elevation 3,514 feet above NAVD88
The depth of the well is 93 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1953-04-27		D	63.15			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)



Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: 7-2-20

Project: Bronco II Incident

Project Number: Pending

Latitude: 32.13224

Longitude: -103.26387

Sample ID	PID/Odor	Chloride Conc.	GPS
NH1@surface	None	>112	
NH1@1'	None	>112	
EH1@surface	None	188	
EH1@1'	None	188	
SH1@surface	None	188	
SH1@1'	None	188	
WH1@surface	None	>112	
WH1@1'	None	>112	
SP1@surface	None	2404	
SP1@3'-R	None	1216	
SP2@surface	None	24,756	
SP2@2'-R	None	2232	
SP3@surface	None	24,756	
SP3@4'-R	None	992	
Confirmation	↓	Sampling ↓	Event ↓
EW1	None	244	
FL1@4'	None	>112	
WW1	None	>112	
WW2	None	>112	
WW3	None	>112	
EW2	None	>112	
EW3	None	>112	
FL2@4'	None	>112	
FL3@4'	None	>112	
FL4@4'	None	>112	
FL5@4'	None	>112	
FL6@3'	None	348	
EW1B	None	>112	
WW1B	None	184	
FL7@3'	None	348	
FL8@3'	None	476	
FL9@3'	None	348	
EW4	None	568	
EW5	None		
WW4	None	>112	
WW5	None	>112	

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: 8.4.20

Project: Bronco II

Project Number: _____

Latitude: _____

Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL10@3'	none	676	
FL11@3'	none	1776	
FL12@3'	none	2584	
FL13@3'	none	1776	
WW2B	none	7112	
WW3B	none	184	
EW2B NW2	none	184	
EW2B	none	184	
EW2B FL14@2'	none	348	
EW2B NW3	none	7112	
FL10@4'	none	348	
FL11@4'	none	1776	
FL12@4'	none	1432	
FL13@4'	none	860	
NW1	none	184	
SW1	none	348	
FL15@3'	none	568	
FL16@3'	none	132	
FL17@3'	none	7112	
FL18@3'	none	184	
FL19@3'	none	348	
FL20@3'	none	132	
FL21@3'	none	184	
FL22@3'	none	348	
FL23@4'	none	2584	
NW4	none	7112	
FL24@4'	none	1244	
FL25@4'	none	1244	
FL26@4'	none	1244	
FL27@4'	none	2584	
FL28@4'	none	2584	
FL29@4'	none	2584	
WW6	none	7112	
NW5	none	348	
EW6	none	212	
EW7	none	568	

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:

8-6-20

Project: Bronco II

Project Number:

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 SW #1b

Stackpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date:

8.6.20

Project: Bronco II IncidentProject Number: PendingLatitude: 32.13224Longitude: -103.26387

Depth (ft. bgs)

Description

1	red dirt	Easy to dig first foot, then it gets really rocky
2	caliche	
3	caliche	
4	caliche	
5		
6		
7		
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Appendix C

Laboratory Analytical Reports



Xenco

Certificate of Analysis Summary 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bronco 11

Project Id: 12701
Contact: PM
Project Location: Lea County (Jal, NM)

Date Received in Lab: Wed 07.08.2020 11:15
Report Date: 07.10.2020 16:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	666539-001	666539-002	666539-003	666539-004	666539-005	666539-006
	<i>Field Id:</i>	NH @ Surface	NH @ 1'	EH @ Surface	EH @ 1'	SH @ Surface	SH @ 1'
	<i>Depth:</i>		1- ft		1- ft		1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.02.2020 00:00	07.02.2020 00:00	07.02.2020 00:00	07.02.2020 00:00	07.02.2020 00:00	07.02.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.08.2020 14:00	07.08.2020 14:00	07.08.2020 14:00	07.08.2020 14:00	07.08.2020 14:00	07.09.2020 11:00
	<i>Analyzed:</i>	07.08.2020 22:41	07.08.2020 23:02	07.08.2020 23:23	07.08.2020 23:43	07.09.2020 00:04	07.09.2020 13:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00356 0.00199	0.00264 0.00198	0.0103 0.00199	0.00259 0.00199	<0.00200 0.00200	<0.00198 0.00198
Toluene		0.0136 0.00199	0.00838 0.00198	0.0280 0.00199	0.00824 0.00199	0.00585 0.00200	0.00273 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		0.0172 0.00199	0.0110 0.00198	0.0383 0.00199	0.0108 0.00199	0.00585 0.00200	0.00273 0.00198
Chloride by EPA 300	<i>Extracted:</i>	07.09.2020 08:30	07.09.2020 08:30	07.09.2020 08:30	07.09.2020 08:30	07.09.2020 08:30	07.09.2020 08:30
	<i>Analyzed:</i>	07.09.2020 11:43	07.09.2020 11:49	07.09.2020 11:56	07.09.2020 12:02	07.09.2020 12:08	07.09.2020 12:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		44.1 5.05	46.4 4.98	191 5.00	214 5.02	18.3 5.04	5.27 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	07.08.2020 16:00	07.08.2020 16:00	07.08.2020 16:00	07.08.2020 16:00	07.08.2020 16:00	07.08.2020 16:00
	<i>Analyzed:</i>	07.08.2020 21:26	07.08.2020 21:45	07.08.2020 22:04	07.08.2020 22:23	07.08.2020 22:42	07.08.2020 23:01
	<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	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8

BRL - Below Reporting Limit

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



Xenco

Certificate of Analysis Summary 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bronco 11

Project Id: 12701
Contact: PM
Project Location: Lea County (Jal, NM)

Date Received in Lab: Wed 07.08.2020 11:15
Report Date: 07.10.2020 16:31
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	666539-007	666539-008	666539-009	666539-010		
	<i>Field Id:</i>	WH @ Surface	WH @ 1'	SP1 @ Surface	SP1 @ 4'-R		
	<i>Depth:</i>		1- ft		4- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	07.02.2020 00:00	07.02.2020 00:00	07.02.2020 00:00	07.02.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	07.09.2020 11:00	07.09.2020 11:00	07.09.2020 11:00	07.09.2020 11:00		
	<i>Analyzed:</i>	07.09.2020 13:33	07.09.2020 13:53	07.09.2020 14:14	07.09.2020 14:35		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		0.00633 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200		
Toluene		0.0229 0.00198	0.00358 0.00198	0.00306 0.00199	0.00255 0.00200		
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200		
m,p-Xylenes		<0.00397 0.00397	<0.00396 0.00396	<0.00398 0.00398	<0.00401 0.00401		
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200		
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200		
Total BTEX		0.0292 0.00198	0.00358 0.00198	0.00306 0.00199	0.00255 0.00200		
Chloride by EPA 300	<i>Extracted:</i>	07.09.2020 08:30	07.09.2020 08:30	07.09.2020 08:30	07.09.2020 08:30		
	<i>Analyzed:</i>	07.09.2020 12:34	07.09.2020 12:40	07.09.2020 12:59	07.09.2020 13:05		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		<4.98 4.98	50.6 5.00	24800 253	1030 5.02		
TPH By SW8015 Mod	<i>Extracted:</i>	07.08.2020 16:00	07.08.2020 16:00	07.08.2020 16:00	07.08.2020 16:00		
	<i>Analyzed:</i>	07.08.2020 23:20	07.08.2020 23:39	07.08.2020 23:58	07.09.2020 00:17		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9		

BRL - Below Reporting Limit

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



Xenco

Analytical Report 666539

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Bronco 11

12701

07.10.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



07.10.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **666539**

Bronco 11

Project Address: Lea County (Jal, NM)

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) 666539. 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. 666539 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 666539****Etech Environmental & Safety Solution, Inc, Midland, TX**

Bronco 11

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH @ Surface	S	07.02.2020 00:00		666539-001
NH @ 1'	S	07.02.2020 00:00	1 ft	666539-002
EH @ Surface	S	07.02.2020 00:00		666539-003
EH @ 1'	S	07.02.2020 00:00	1 ft	666539-004
SH @ Surface	S	07.02.2020 00:00		666539-005
SH @ 1'	S	07.02.2020 00:00	1 ft	666539-006
WH @ Surface	S	07.02.2020 00:00		666539-007
WH @ 1'	S	07.02.2020 00:00	1 ft	666539-008
SP1 @ Surface	S	07.02.2020 00:00		666539-009
SP1 @ 4'-R	S	07.02.2020 00:00	4 ft	666539-010



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Bronco 11

Project ID: 12701
Work Order Number(s): 666539

Report Date: 07.10.2020
Date Received: 07.08.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **NH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-001

Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.2020 08:30

Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.1	5.05	mg/kg	07.09.2020 11:43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.08.2020 16:00

Basis: Wet Weight

Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.08.2020 21:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.08.2020 21:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.08.2020 21:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.08.2020 21:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	07.08.2020 21:26	
o-Terphenyl	84-15-1	106	%	70-130	07.08.2020 21:26	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **NH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-001

Date Collected: 07.02.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: AMF

Date Prep: 07.08.2020 14:00

Basis: Wet Weight

Seq Number: 3131097

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00356	0.00199	mg/kg	07.08.2020 22:41		1
Toluene	108-88-3	0.0136	0.00199	mg/kg	07.08.2020 22:41		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.2020 22:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.2020 22:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.2020 22:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.2020 22:41	U	1
Total BTEX		0.0172	0.00199	mg/kg	07.08.2020 22:41		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.08.2020 22:41		
1,4-Difluorobenzene	540-36-3	110	%	70-130	07.08.2020 22:41		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **NH @ 1'**
 Lab Sample Id: 666539-002

Matrix: Soil
 Date Collected: 07.02.2020 00:00

Date Received: 07.08.2020 11:15
 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3131215

Date Prep: 07.09.2020 08:30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.4	4.98	mg/kg	07.09.2020 11:49		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3131134

Date Prep: 07.08.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.08.2020 21:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.08.2020 21:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.08.2020 21:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.08.2020 21:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	07.08.2020 21:45	
o-Terphenyl	84-15-1	101	%	70-130	07.08.2020 21:45	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **NH @ 1'**
 Lab Sample Id: 666539-002

Matrix: Soil
 Date Collected: 07.02.2020 00:00

Date Received: 07.08.2020 11:15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: AMF

Date Prep: 07.08.2020 14:00

Basis: Wet Weight

Seq Number: 3131097

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00264	0.00198	mg/kg	07.08.2020 23:02		1
Toluene	108-88-3	0.00838	0.00198	mg/kg	07.08.2020 23:02		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.08.2020 23:02	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.08.2020 23:02	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.08.2020 23:02	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.08.2020 23:02	U	1
Total BTEX		0.0110	0.00198	mg/kg	07.08.2020 23:02		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.08.2020 23:02		
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.08.2020 23:02		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **EH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-003

Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.2020 08:30

Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	191	5.00	mg/kg	07.09.2020 11:56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.08.2020 16:00

Basis: Wet Weight

Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.08.2020 22:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.08.2020 22:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.08.2020 22:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.08.2020 22:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	07.08.2020 22:04	
o-Terphenyl	84-15-1	99	%	70-130	07.08.2020 22:04	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **EH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-003

Date Collected: 07.02.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: AMF

Date Prep: 07.08.2020 14:00

Basis: Wet Weight

Seq Number: 3131097

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0103	0.00199	mg/kg	07.08.2020 23:23		1
Toluene	108-88-3	0.0280	0.00199	mg/kg	07.08.2020 23:23		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.2020 23:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.2020 23:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.2020 23:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.2020 23:23	U	1
Total BTEX		0.0383	0.00199	mg/kg	07.08.2020 23:23		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	118	%	70-130	07.08.2020 23:23		
4-Bromofluorobenzene	460-00-4	100	%	70-130	07.08.2020 23:23		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **EH @ 1'**
 Lab Sample Id: 666539-004

Matrix: Soil
 Date Collected: 07.02.2020 00:00

Date Received: 07.08.2020 11:15
 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3131215

Date Prep: 07.09.2020 08:30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	214	5.02	mg/kg	07.09.2020 12:02		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3131134

Date Prep: 07.08.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.08.2020 22:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.08.2020 22:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.08.2020 22:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.08.2020 22:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.08.2020 22:23	
o-Terphenyl	84-15-1	103	%	70-130	07.08.2020 22:23	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **EH @ 1'**
 Lab Sample Id: 666539-004

Matrix: Soil
 Date Collected: 07.02.2020 00:00

Date Received: 07.08.2020 11:15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: AMF

Date Prep: 07.08.2020 14:00

Basis: Wet Weight

Seq Number: 3131097

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00259	0.00199	mg/kg	07.08.2020 23:43		1
Toluene	108-88-3	0.00824	0.00199	mg/kg	07.08.2020 23:43		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.2020 23:43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.2020 23:43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.2020 23:43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.2020 23:43	U	1
Total BTEX		0.0108	0.00199	mg/kg	07.08.2020 23:43		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.08.2020 23:43		
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.08.2020 23:43		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-005

Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.2020 08:30

Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.3	5.04	mg/kg	07.09.2020 12:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.08.2020 16:00

Basis: Wet Weight

Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.08.2020 22:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.08.2020 22:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.08.2020 22:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.08.2020 22:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	07.08.2020 22:42	
o-Terphenyl	84-15-1	107	%	70-130	07.08.2020 22:42	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-005

Date Collected: 07.02.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: AMF

Date Prep: 07.08.2020 14:00

Basis: Wet Weight

Seq Number: 3131097

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.2020 00:04	U	1
Toluene	108-88-3	0.00585	0.00200	mg/kg	07.09.2020 00:04		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.2020 00:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.09.2020 00:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.2020 00:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.2020 00:04	U	1
Total BTEX		0.00585	0.00200	mg/kg	07.09.2020 00:04		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	07.09.2020 00:04		
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.09.2020 00:04		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SH @ 1'** Matrix: Soil Date Received: 07.08.2020 11:15
 Lab Sample Id: 666539-006 Date Collected: 07.02.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.09.2020 08:30 Basis: Wet Weight
 Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.27	4.95	mg/kg	07.09.2020 12:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.08.2020 16:00 Basis: Wet Weight
 Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.08.2020 23:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.08.2020 23:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.08.2020 23:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.08.2020 23:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	07.08.2020 23:01	
o-Terphenyl	84-15-1	108	%	70-130	07.08.2020 23:01	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SH @ 1'**
 Lab Sample Id: 666539-006

Matrix: Soil
 Date Collected: 07.02.2020 00:00

Date Received: 07.08.2020 11:15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 07.09.2020 11:00

Basis: Wet Weight

Seq Number: 3131212

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.09.2020 13:12	U	1
Toluene	108-88-3	0.00273	0.00198	mg/kg	07.09.2020 13:12		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.09.2020 13:12	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.09.2020 13:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.09.2020 13:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.09.2020 13:12	U	1
Total BTEX		0.00273	0.00198	mg/kg	07.09.2020 13:12		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.09.2020 13:12		
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.09.2020 13:12		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **WH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-007

Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.2020 08:30

Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	07.09.2020 12:34	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.08.2020 16:00

Basis: Wet Weight

Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.08.2020 23:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.08.2020 23:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.08.2020 23:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.08.2020 23:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.08.2020 23:20	
o-Terphenyl	84-15-1	108	%	70-130	07.08.2020 23:20	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **WH @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-007

Date Collected: 07.02.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 07.09.2020 11:00

Basis: Wet Weight

Seq Number: 3131212

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00633	0.00198	mg/kg	07.09.2020 13:33		1
Toluene	108-88-3	0.0229	0.00198	mg/kg	07.09.2020 13:33		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.09.2020 13:33	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.09.2020 13:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.09.2020 13:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.09.2020 13:33	U	1
Total BTEX		0.0292	0.00198	mg/kg	07.09.2020 13:33		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.09.2020 13:33		
4-Bromofluorobenzene	460-00-4	96	%	70-130	07.09.2020 13:33		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **WH @ 1'** Matrix: Soil Date Received: 07.08.2020 11:15
 Lab Sample Id: 666539-008 Date Collected: 07.02.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.09.2020 08:30 Basis: Wet Weight
 Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.6	5.00	mg/kg	07.09.2020 12:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.08.2020 16:00 Basis: Wet Weight
 Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.08.2020 23:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.08.2020 23:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.08.2020 23:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.08.2020 23:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.08.2020 23:39	
o-Terphenyl	84-15-1	103	%	70-130	07.08.2020 23:39	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **WH @ 1'**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-008

Date Collected: 07.02.2020 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 07.09.2020 11:00

Basis: Wet Weight

Seq Number: 3131212

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.09.2020 13:53	U	1
Toluene	108-88-3	0.00358	0.00198	mg/kg	07.09.2020 13:53		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.09.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.09.2020 13:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.09.2020 13:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.09.2020 13:53	U	1
Total BTEX		0.00358	0.00198	mg/kg	07.09.2020 13:53		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.09.2020 13:53		
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.09.2020 13:53		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SP1 @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-009

Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.2020 08:30

Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24800	253	mg/kg	07.09.2020 12:59		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.08.2020 16:00

Basis: Wet Weight

Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.08.2020 23:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.08.2020 23:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.08.2020 23:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.08.2020 23:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	07.08.2020 23:58	
o-Terphenyl	84-15-1	105	%	70-130	07.08.2020 23:58	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SP1 @ Surface**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-009

Date Collected: 07.02.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 07.09.2020 11:00

Basis: Wet Weight

Seq Number: 3131212

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.2020 14:14	U	1
Toluene	108-88-3	0.00306	0.00199	mg/kg	07.09.2020 14:14		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.2020 14:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.2020 14:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.2020 14:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.2020 14:14	U	1
Total BTEX		0.00306	0.00199	mg/kg	07.09.2020 14:14		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	07.09.2020 14:14		
1,4-Difluorobenzene	540-36-3	115	%	70-130	07.09.2020 14:14		



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SP1 @ 4'-R**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-010

Date Collected: 07.02.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.2020 08:30

Basis: Wet Weight

Seq Number: 3131215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1030	5.02	mg/kg	07.09.2020 13:05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.08.2020 16:00

Basis: Wet Weight

Seq Number: 3131134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 00:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 00:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 00:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 00:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.09.2020 00:17	
o-Terphenyl	84-15-1	107	%	70-130	07.09.2020 00:17	



Certificate of Analytical Results 666539

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco 11

Sample Id: **SP1 @ 4'-R**

Matrix: Soil

Date Received: 07.08.2020 11:15

Lab Sample Id: 666539-010

Date Collected: 07.02.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 07.09.2020 11:00

Basis: Wet Weight

Seq Number: 3131212

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.2020 14:35	U	1
Toluene	108-88-3	0.00255	0.00200	mg/kg	07.09.2020 14:35		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.2020 14:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.09.2020 14:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.2020 14:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.2020 14:35	U	1
Total BTEX		0.00255	0.00200	mg/kg	07.09.2020 14:35		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	117	%	70-130	07.09.2020 14:35		
4-Bromofluorobenzene	460-00-4	94	%	70-130	07.09.2020 14:35		

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

Bronco 11

Analytical Method: Chloride by EPA 300

Seq Number: 3131215

MB Sample Id: 7706988-1-BLK

Matrix: Solid

LCS Sample Id: 7706988-1-BKS

Prep Method: E300P

Date Prep: 07.09.2020

LCSD Sample Id: 7706988-1-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	245	98	246	98	90-110	0	20	mg/kg	07.09.2020 10:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3131215

Parent Sample Id: 666538-010

Matrix: Soil

MS Sample Id: 666538-010 S

Prep Method: E300P

Date Prep: 07.09.2020

MSD Sample Id: 666538-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1590	1250	2960	110	2950	109	90-110	0	20	mg/kg	07.09.2020 10:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3131215

Parent Sample Id: 666539-006

Matrix: Soil

MS Sample Id: 666539-006 S

Prep Method: E300P

Date Prep: 07.09.2020

MSD Sample Id: 666539-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.27	248	263	104	263	104	90-110	0	20	mg/kg	07.09.2020 12:21	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3131134

MB Sample Id: 7706972-1-BLK

Matrix: Solid

LCS Sample Id: 7706972-1-BKS

Prep Method: SW8015P

Date Prep: 07.08.2020

LCSD Sample Id: 7706972-1-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	1170	117	1170	117	70-130	0	20	mg/kg	07.08.2020 16:40	
Diesel Range Organics (DRO)	<50.0	1000	1180	118	1110	111	70-130	6	20	mg/kg	07.08.2020 16:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		129		125		70-130	%	07.08.2020 16:40
o-Terphenyl	116		129		128		70-130	%	07.08.2020 16:40

Analytical Method: TPH By SW8015 Mod

Seq Number: 3131134

Matrix: Solid

MB Sample Id: 7706972-1-BLK

Prep Method: SW8015P

Date Prep: 07.08.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.08.2020 16:21	

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

Bronco 11

Analytical Method: TPH By SW8015 Mod

Seq Number: 3131134

Parent Sample Id: 666529-002

Matrix: Soil

MS Sample Id: 666529-002 S

Prep Method: SW8015P

Date Prep: 07.08.2020

MSD Sample Id: 666529-002 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)	<49.8	996	1010	101	996	100	70-130	1	20	mg/kg	07.08.2020 17:38	
Diesel Range Organics (DRO)	<49.8	996	1090	109	1090	109	70-130	0	20	mg/kg	07.08.2020 17:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	123		122		70-130	%	07.08.2020 17:38
o-Terphenyl	115		114		70-130	%	07.08.2020 17:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3131097

MB Sample Id: 7706926-1-BLK

Matrix: Solid

LCS Sample Id: 7706926-1-BKS

Prep Method: SW5035A

Date Prep: 07.08.2020

LCSD Sample Id: 7706926-1-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	0.119	119	0.114	114	70-130	4	35	mg/kg	07.08.2020 14:28	
Toluene	<0.00200	0.100	0.101	101	0.0992	99	70-130	2	35	mg/kg	07.08.2020 14:28	
Ethylbenzene	<0.00200	0.100	0.0956	96	0.0935	94	70-130	2	35	mg/kg	07.08.2020 14:28	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.177	89	70-130	2	35	mg/kg	07.08.2020 14:28	
o-Xylene	<0.00200	0.100	0.0888	89	0.0886	89	70-130	0	35	mg/kg	07.08.2020 14:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		101		99		70-130	%	07.08.2020 14:28
4-Bromofluorobenzene	87		83		85		70-130	%	07.08.2020 14:28

Analytical Method: BTEX by EPA 8021B

Seq Number: 3131212

MB Sample Id: 7707065-1-BLK

Matrix: Solid

LCS Sample Id: 7707065-1-BKS

Prep Method: SW5035A

Date Prep: 07.09.2020

LCSD Sample Id: 7707065-1-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	0.116	116	0.113	113	70-130	3	35	mg/kg	07.09.2020 11:09	
Toluene	<0.00200	0.100	0.107	107	0.102	102	70-130	5	35	mg/kg	07.09.2020 11:09	
Ethylbenzene	<0.00200	0.100	0.104	104	0.0975	98	70-130	6	35	mg/kg	07.09.2020 11:09	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.187	94	70-130	7	35	mg/kg	07.09.2020 11:09	
o-Xylene	<0.00200	0.100	0.100	100	0.0935	94	70-130	7	35	mg/kg	07.09.2020 11:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		97		98		70-130	%	07.09.2020 11:09
4-Bromofluorobenzene	96		94		92		70-130	%	07.09.2020 11:09

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

Bronco 11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3131097

Parent Sample Id: 666538-001

Matrix: Soil

MS Sample Id: 666538-001 S

Prep Method: SW5035A

Date Prep: 07.08.2020

MSD Sample Id: 666538-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00666	0.0996	0.127	121	0.132	125	70-130	4	35	mg/kg	07.08.2020 15:09	
Toluene	0.0233	0.0996	0.111	88	0.119	96	70-130	7	35	mg/kg	07.08.2020 15:09	
Ethylbenzene	<0.00199	0.0996	0.0859	86	0.0880	88	70-130	2	35	mg/kg	07.08.2020 15:09	
m,p-Xylenes	<0.00398	0.199	0.164	82	0.165	82	70-130	1	35	mg/kg	07.08.2020 15:09	
o-Xylene	<0.00199	0.0996	0.0813	82	0.0822	82	70-130	1	35	mg/kg	07.08.2020 15:09	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		104		70-130	%	07.08.2020 15:09
4-Bromofluorobenzene	84		82		70-130	%	07.08.2020 15:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3131212

Parent Sample Id: 666539-006

Matrix: Soil

MS Sample Id: 666539-006 S

Prep Method: SW5035A

Date Prep: 07.09.2020

MSD Sample Id: 666539-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.114	114	0.117	117	70-130	3	35	mg/kg	07.09.2020 11:50	
Toluene	0.00273	0.100	0.102	99	0.103	101	70-130	1	35	mg/kg	07.09.2020 11:50	
Ethylbenzene	<0.00201	0.100	0.0948	95	0.0933	94	70-130	2	35	mg/kg	07.09.2020 11:50	
m,p-Xylenes	<0.00402	0.201	0.181	90	0.178	89	70-130	2	35	mg/kg	07.09.2020 11:50	
o-Xylene	<0.00201	0.100	0.0894	89	0.0883	89	70-130	1	35	mg/kg	07.09.2020 11:50	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		101		70-130	%	07.09.2020 11:50
4-Bromofluorobenzene	90		97		70-130	%	07.09.2020 11:50

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

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 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No: W0539www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level:	Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: ☐

Project Name:	BRONCO II		Turn Around	ANALYSIS REQUEST										Preservative Codes			
Project Number:	12701		Routine:	☒										HNO3: HN			
Project Location:	Lea County (Jal, NM)		Rush:	☐										H2S04: H2			
Sampler's Name:	Miguel Ramirez		Due Date:											HCL: HL			
PO #:														None: NO			
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No											NaOH: Na	
Temperature (°C):		26.1.9		Thermometer ID:												MeOH: Me	
Received Intact:		Yes No														Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:		Yes No	N/A	Correction Factor:												TAT starts the day received by the lab, if received by 4:30pm	
Sample Custody Seals:		Yes No	N/A	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											
NH@ surface	Soil	7-2-20			Ice	X	X	X												
NH@ 1'	Soil	7-2-20		1'	Ice	X	X	X												
EH@ surface	Soil	7-2-20			Ice	X	X	X												
EH@ 1'	Soil	7-2-20		1'	Ice	X	X	X												
SH@ surface	Soil	7-2-20			Ice	X	X	X												
SH@ 1'	Soil	7-2-20		1'	Ice	X	X	X												
WH@ surface	Soil	7-2-20			Ice	X	X	X												
WH@ 1'	Soil	7-2-20		1'	Ice	X	X	X												
SP1@ surface	Soil	7-2-20			Ice	X	X	X												
SP1@ 4'-R	Soil	7-2-20		4'-R	Ice	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 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
<i>[Signature]</i>	<i>[Signature]</i>	7-6-20	<i>[Signature]</i>	<i>[Signature]</i>	7/8/20
					1115

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 07.08.2020 11.15.00 AM

Work Order #: 666539

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.9
#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

BTEX was in bulk container

*** 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: 07.08.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.09.2020

Certificate of Analysis Summary 669577

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bronco II

Project Id:

Contact: PM

Project Location: Rural Lea, NM

Date Received in Lab: Mon 08.10.2020 10:01

Report Date: 08.11.2020 15:32

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	669577-001	669577-002	669577-003			
	Field Id:	EW5	SW3	SW4			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	08.07.2020 14:00	08.07.2020 14:30	08.07.2020 14:45			
BTEX by EPA 8021B	Extracted:	08.10.2020 13:00	08.10.2020 13:00	08.10.2020 13:00			
	Analyzed:	08.11.2020 00:08	08.11.2020 00:29	08.11.2020 00:49			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Toluene		0.00301 X 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00401 0.00401			
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Total BTEX		0.00301 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	08.10.2020 12:00	08.10.2020 12:00	08.10.2020 12:00			
	Analyzed:	08.11.2020 08:51	08.11.2020 08:57	08.11.2020 09:02			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		5920 49.8	2580 25.0	808 5.00			
TPH By SW8015 Mod	Extracted:	08.10.2020 12:00	08.10.2020 12:00	08.10.2020 12:00			
	Analyzed:	08.11.2020 11:08	08.11.2020 11:32	08.10.2020 17:23			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9			
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9			
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9			

BRL - Below Reporting Limit

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

Jessica Kramer

Analytical Report 669577

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Bronco II

08.11.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.11.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **669577**

Bronco II

Project Address: Rural Lea, NM

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) 669577. 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. 669577 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 669577

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco II

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
EW5	S	08.07.2020 14:00		669577-001
SW3	S	08.07.2020 14:30		669577-002
SW4	S	08.07.2020 14:45		669577-003



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Bronco II

Project ID:
Work Order Number(s): 669577

Report Date: 08.11.2020
Date Received: 08.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3134108 BTEX by EPA 8021B

Lab Sample ID 669577-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 669577-001, -002, -003.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 669577

Etech Environmental & Safety Solution, Inc, Midland, TX

Bronco II

Sample Id: **EW5** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669577-001 Date Collected: 08.07.2020 14:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:00 Basis: Wet Weight
 Seq Number: 3134098

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5920	49.8	mg/kg	08.11.2020 08:51		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight
 Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 11:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 11:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 11:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 11:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	08.11.2020 11:08	
o-Terphenyl	84-15-1	86	%	70-130	08.11.2020 11:08	



Certificate of Analytical Results 669577

Etech Environmental & Safety Solution, Inc, Midland, TX Bronco II

Sample Id: **EW5**
Lab Sample Id: 669577-001

Matrix: Soil
Date Collected: 08.07.2020 14:00

Date Received: 08.10.2020 10:01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 08.10.2020 13:00

Basis: Wet Weight

Seq Number: 3134108

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.11.2020 00:08	UX	1
Toluene	108-88-3	0.00301	0.00200	mg/kg	08.11.2020 00:08	X	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.11.2020 00:08	UX	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.11.2020 00:08	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.11.2020 00:08	UX	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.11.2020 00:08	U	1
Total BTEX		0.00301	0.00200	mg/kg	08.11.2020 00:08		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.11.2020 00:08		
4-Bromofluorobenzene	460-00-4	97	%	70-130	08.11.2020 00:08		



Certificate of Analytical Results 669577

Etech Environmental & Safety Solution, Inc, Midland, TX Bronco II

Sample Id: **SW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669577-002 Date Collected: 08.07.2020 14:30
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:00 Basis: Wet Weight
 Seq Number: 3134098

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2580	25.0	mg/kg	08.11.2020 08:57		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight
 Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 11:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 11:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 11:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 11:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	08.11.2020 11:32	
o-Terphenyl	84-15-1	95	%	70-130	08.11.2020 11:32	



Certificate of Analytical Results 669577

Etech Environmental & Safety Solution, Inc, Midland, TX Bronco II

Sample Id: **SW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669577-002 Date Collected: 08.07.2020 14:30
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.10.2020 13:00 Basis: Wet Weight
 Seq Number: 3134108

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.11.2020 00:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.11.2020 00:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.11.2020 00:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.11.2020 00:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.11.2020 00:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.11.2020 00:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.11.2020 00:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.11.2020 00:29		
4-Bromofluorobenzene	460-00-4	95	%	70-130	08.11.2020 00:29		



Certificate of Analytical Results 669577

Etech Environmental & Safety Solution, Inc, Midland, TX Bronco II

Sample Id: **SW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669577-003 Date Collected: 08.07.2020 14:45
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:00 Basis: Wet Weight
 Seq Number: 3134098

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	808	5.00	mg/kg	08.11.2020 09:02		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight
 Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.10.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.10.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.10.2020 17:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.10.2020 17:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	08.10.2020 17:23	
o-Terphenyl	84-15-1	83	%	70-130	08.10.2020 17:23	



Certificate of Analytical Results 669577

Etech Environmental & Safety Solution, Inc, Midland, TX Bronco II

Sample Id: **SW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669577-003 Date Collected: 08.07.2020 14:45
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.10.2020 13:00 Basis: Wet Weight
 Seq Number: 3134108

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.11.2020 00:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.11.2020 00:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.11.2020 00:49	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.11.2020 00:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.11.2020 00:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.11.2020 00:49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.11.2020 00:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	08.11.2020 00:49		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.11.2020 00:49		

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

Bronco II

Analytical Method: Chloride by EPA 300

Seq Number: 3134098

MB Sample Id: 7709071-1-BLK

Matrix: Solid

LCS Sample Id: 7709071-1-BKS

Prep Method: E300P

Date Prep: 08.10.2020

LCSD Sample Id: 7709071-1-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	243	97	242	97	90-110	0	20	mg/kg	08.10.2020 18:57	

Analytical Method: Chloride by EPA 300

Seq Number: 3134098

Parent Sample Id: 669580-001

Matrix: Soil

MS Sample Id: 669580-001 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669580-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	350	251	525	70	511	64	90-110	3	20	mg/kg	08.10.2020 19:13	X

Analytical Method: Chloride by EPA 300

Seq Number: 3134098

Parent Sample Id: 669580-011

Matrix: Soil

MS Sample Id: 669580-011 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669580-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1540	1250	2710	94	2710	94	90-110	0	20	mg/kg	08.10.2020 20:26	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134154

MB Sample Id: 7709123-1-BLK

Matrix: Solid

LCS Sample Id: 7709123-1-BKS

Prep Method: SW8015P

Date Prep: 08.10.2020

LCSD Sample Id: 7709123-1-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	866	87	865	87	70-130	0	20	mg/kg	08.10.2020 12:18	
Diesel Range Organics (DRO)	<50.0	1000	927	93	849	85	70-130	9	20	mg/kg	08.10.2020 12:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		104		97		70-130	%	08.10.2020 12:18
o-Terphenyl	96		96		89		70-130	%	08.10.2020 12:18

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134154

Matrix: Solid

MB Sample Id: 7709123-1-BLK

Prep Method: SW8015P

Date Prep: 08.10.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.10.2020 11:54	

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

Bronco II

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134154

Parent Sample Id: 669576-001

Matrix: Soil

MS Sample Id: 669576-001 S

Prep Method: SW8015P

Date Prep: 08.10.2020

MSD Sample Id: 669576-001 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)	<50.0	999	811	81	792	79	70-130	2	20	mg/kg	08.10.2020 13:28	
Diesel Range Organics (DRO)	<50.0	999	838	84	779	78	70-130	7	20	mg/kg	08.10.2020 13:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		81		70-130	%	08.10.2020 13:28
o-Terphenyl	75		72		70-130	%	08.10.2020 13:28

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134108

MB Sample Id: 7709136-1-BLK

Matrix: Solid

LCS Sample Id: 7709136-1-BKS

Prep Method: SW5035A

Date Prep: 08.10.2020

LCSD Sample Id: 7709136-1-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	0.0795	80	0.0805	81	70-130	1	35	mg/kg	08.10.2020 21:46	
Toluene	<0.00200	0.100	0.0754	75	0.0790	79	70-130	5	35	mg/kg	08.10.2020 21:46	
Ethylbenzene	<0.00200	0.100	0.0757	76	0.0791	79	70-130	4	35	mg/kg	08.10.2020 21:46	
m,p-Xylenes	<0.00400	0.200	0.150	75	0.157	79	70-130	5	35	mg/kg	08.10.2020 21:46	
o-Xylene	<0.00200	0.100	0.0770	77	0.0807	81	70-130	5	35	mg/kg	08.10.2020 21:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		100		99		70-130	%	08.10.2020 21:46
4-Bromofluorobenzene	88		93		96		70-130	%	08.10.2020 21:46

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134108

Parent Sample Id: 669577-001

Matrix: Soil

MS Sample Id: 669577-001 S

Prep Method: SW5035A

Date Prep: 08.10.2020

MSD Sample Id: 669577-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0590	59	0.0543	55	70-130	8	35	mg/kg	08.10.2020 22:27	X
Toluene	0.00301	0.0994	0.0601	57	0.0558	53	70-130	7	35	mg/kg	08.10.2020 22:27	X
Ethylbenzene	<0.00199	0.0994	0.0584	59	0.0535	54	70-130	9	35	mg/kg	08.10.2020 22:27	X
m,p-Xylenes	<0.00398	0.199	0.117	59	0.107	54	70-130	9	35	mg/kg	08.10.2020 22:27	X
o-Xylene	<0.00199	0.0994	0.0600	60	0.0550	55	70-130	9	35	mg/kg	08.10.2020 22:27	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	08.10.2020 22:27
4-Bromofluorobenzene	100		98		70-130	%	08.10.2020 22:27

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) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

W09577

www.xenco.com Page of

Project Manager:	Joel Lowry	Bill to: (if different)	Selav's C/O Rob Kirk
Company Name:	Etech Environmental & Safety	Company Name:	Selav's
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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: ☐

Project Name:		Bronco II		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:				Routine:														HNO3: HN					
Project Location:		Rural Lea, NM		Rush:														H2SO4: H2					
Sampler's Name:		Dustin Crockett		Due Date:														HCL: HL					
PO #:																		None: NO					
SAMPLE RECEIPT		Temp Blank: Yes ☒ No ☐		Wet Ice: Yes ☒ No ☐														NaOH: Na					
Temperature (°C):		0.0/10.0		Thermometer ID:														MeOH: Me					
Received Intact:		Yes ☒ No ☐		Correction Factor:														Zn Acetate+ NaOH: Zn					
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Total Containers:														TAT starts the day received by the lab, if received by 4:30pm					
Sample Custody Seals:		Yes ☐ No ☒ N/A																Sample Comments					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 9021	TPH Modified Ext	TPH TX1005														
FW5	S	9/7/20	2:20	NL		X	X	X															
SW3			2:30			X	X	X															
SW4			2:45			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 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		3:50/8-7-20			9/10/20
3			4		
5			6		10/1

Revised Date 10/14/19 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.10.2020 10.01.00 AM

Work Order #: 669577

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#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 BTEX was in bulk container
#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: 08.10.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.10.2020



Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-001	669583-002	669583-003	669583-004	669583-005	669583-006
	<i>Field Id:</i>	NW1	NW2	NW3	NW4	NW5	EW1
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.04.2020 00:00	08.04.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.06.2020 00:00	08.06.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.11.2020 15:00	08.11.2020 15:00	08.11.2020 15:00
	<i>Analyzed:</i>	08.13.2020 18:01	08.13.2020 18:22	08.13.2020 18:42	08.12.2020 09:51	08.12.2020 10:12	08.12.2020 10:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00396 0.00396	<0.00398 0.00398	<0.00398 0.00398	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50
	<i>Analyzed:</i>	08.10.2020 14:43	08.10.2020 14:49	08.10.2020 15:08	08.10.2020 15:15	08.10.2020 15:34	08.10.2020 15:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14.6 4.98	10.3 4.95	13.3 5.03	75.7 4.96	258 4.99	69.2 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00
	<i>Analyzed:</i>	08.10.2020 22:58	08.10.2020 23:58	08.11.2020 00:18	08.11.2020 00:38	08.11.2020 00:58	08.11.2020 01:18
	<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	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<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)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-007	669583-008	669583-009	669583-010	669583-011	669583-012
	<i>Field Id:</i>	EW1b	EW2	EW2b	EW3	EW4	EW6
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.03.2020 00:00	08.03.2020 00:00	08.04.2020 00:00	08.04.2020 00:00	08.06.2020 00:00	08.06.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.11.2020 15:00	08.11.2020 15:00	08.11.2020 15:00	08.11.2020 15:00	08.11.2020 15:00	08.11.2020 15:00
	<i>Analyzed:</i>	08.12.2020 10:53	08.12.2020 11:13	08.12.2020 11:34	08.12.2020 11:54	08.12.2020 12:15	08.12.2020 12:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 12:50	08.10.2020 13:35
	<i>Analyzed:</i>	08.10.2020 15:46	08.10.2020 15:53	08.10.2020 15:59	08.10.2020 16:05	08.10.2020 16:12	08.11.2020 09:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.00 5.00	6.15 4.96	<4.99 4.99	<4.95 4.95	130 5.05	119 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00
	<i>Analyzed:</i>	08.11.2020 01:38	08.11.2020 01:58	08.11.2020 02:17	08.11.2020 02:37	08.11.2020 03:16	08.11.2020 03:36
	<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	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<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	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-013	669583-014	669583-015	669583-016	669583-017	669583-018
	<i>Field Id:</i>	EW7	EW8	SW1	SW2	WW1	WW1b
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00	08.03.2020 00:00	08.03.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.11.2020 15:00	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15
	<i>Analyzed:</i>	08.12.2020 12:56	08.13.2020 19:03	08.13.2020 19:24	08.13.2020 19:44	08.13.2020 20:05	08.13.2020 12:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00397 0.00397	<0.00400 0.00400	<0.00399 0.00399	<0.00397 0.00397	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35
	<i>Analyzed:</i>	08.11.2020 09:30	08.11.2020 09:37	08.11.2020 09:43	08.11.2020 09:49	08.11.2020 10:08	08.11.2020 10:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.4 5.03	29.2 4.99	299 4.96	11.1 5.02	7.71 5.00	31.9 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00
	<i>Analyzed:</i>	08.11.2020 03:55	08.11.2020 04:15	08.11.2020 04:34	08.11.2020 04:54	08.11.2020 05:13	08.11.2020 05:32
	<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	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8

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Jessica Kramer

Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-019	669583-020	669583-021	669583-022	669583-023	669583-024
	<i>Field Id:</i>	WW2	WW2b	WW3	WW3b	WW4	WW5
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.03.2020 00:00	08.04.2020 00:00	08.03.2020 00:00	08.04.2020 00:00	08.04.2020 00:00	08.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15
	<i>Analyzed:</i>	08.13.2020 12:47	08.13.2020 13:07	08.13.2020 13:28	08.13.2020 13:48	08.13.2020 14:09	08.13.2020 14:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00396 0.00396	<0.00403 0.00403	<0.00401 0.00401	<0.00397 0.00397	<0.00400 0.00400	<0.00400 0.00400
o-Xylene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35
	<i>Analyzed:</i>	08.11.2020 10:21	08.11.2020 10:27	08.11.2020 10:34	08.11.2020 10:40	08.11.2020 10:59	08.11.2020 11:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8.12 5.00	30.2 4.98	15.4 4.95	25.5 4.97	<4.99 4.99	<4.97 4.97
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00
	<i>Analyzed:</i>	08.11.2020 05:52	08.11.2020 06:11	08.11.2020 00:34	08.11.2020 01:46	08.11.2020 02:09	08.11.2020 02:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

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Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-025	669583-026	669583-027	669583-028	669583-029	669583-030
	<i>Field Id:</i>	WW6	FL1 @4'	FL2 @4'	FL3 @ 4'	FL4 @4'	FL5 @4'
	<i>Depth:</i>		4- ft	4- ft	4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.06.2020 00:00	08.03.2020 00:00	08.03.2020 00:00	08.03.2020 00:00	08.03.2020 00:00	08.03.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15
	<i>Analyzed:</i>	08.13.2020 14:50	08.13.2020 15:10	08.13.2020 15:31	08.13.2020 16:55	08.13.2020 17:16	08.13.2020 17:36
	<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	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402	<0.00402 0.00402	<0.00402 0.00402	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35	08.10.2020 13:35
	<i>Analyzed:</i>	08.11.2020 11:25	08.11.2020 11:31	08.11.2020 11:37	08.11.2020 11:44	08.11.2020 11:50	08.11.2020 11:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		37.0 5.03	11.1 4.96	19.9 4.95	42.0 4.98	40.4 5.04	11.1 5.01
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00
	<i>Analyzed:</i>	08.11.2020 02:56	08.11.2020 03:19	08.11.2020 03:42	08.11.2020 04:06	08.11.2020 04:29	08.11.2020 04:52
	<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	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9

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Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-031	669583-032	669583-033	669583-034	669583-035	669583-036
	<i>Field Id:</i>	FL6 @ 3'	FL7 @ 3'	FL8 @ 3'	FL9 @ 3'	FL10 @ 4'	FL11 @4'
	<i>Depth:</i>	3- ft	3- ft	3- ft	3- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.03.2020 00:00	08.04.2020 00:00	08.04.2020 00:00	08.04.2020 00:00	08.04.2020 00:00	08.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15	08.13.2020 08:15
	<i>Analyzed:</i>	08.13.2020 17:56	08.13.2020 18:17	08.13.2020 18:37	08.13.2020 18:58	08.13.2020 19:18	08.13.2020 19:39
	<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	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00396 0.00396	<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 13:35	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30
	<i>Analyzed:</i>	08.11.2020 12:03	08.11.2020 12:41	08.11.2020 13:00	08.11.2020 13:06	08.11.2020 13:12	08.11.2020 13:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		44.8 4.95	347 5.02	288 4.96	414 5.00	625 5.00	1930 25.0
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00
	<i>Analyzed:</i>	08.11.2020 05:38	08.11.2020 06:01	08.11.2020 06:25	08.11.2020 06:48	08.11.2020 07:11	08.11.2020 07:34
	<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	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9

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Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-037	669583-038	669583-039	669583-040	669583-041	669583-042
	<i>Field Id:</i>	FL12 @ 4'	FL13 @ 4'	FL14 @ 2'	FL15 @ 3'	FL16 @ 3'	FL17 @ 3'
	<i>Depth:</i>	4- ft	4- ft	2- ft	3- ft	3- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.04.2020 00:00	08.04.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 08:15	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00
	<i>Analyzed:</i>	08.13.2020 19:59	08.13.2020 23:51	08.14.2020 00:11	08.14.2020 00:32	08.14.2020 00:52	08.14.2020 01:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
m,p-Xylenes		<0.00399 0.00399	<0.00403 0.00403	<0.00398 0.00398	<0.00400 0.00400	<0.00403 0.00403	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30
	<i>Analyzed:</i>	08.11.2020 13:38	08.11.2020 13:44	08.11.2020 13:50	08.11.2020 13:57	08.11.2020 14:03	08.11.2020 14:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1340 5.04	1060 4.98	177 5.00	190 4.97	25.1 4.96	25.1 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.10.2020 16:00	08.12.2020 11:00	08.12.2020 11:00
	<i>Analyzed:</i>	08.11.2020 07:58	08.11.2020 08:21	08.11.2020 08:45	08.11.2020 09:08	08.12.2020 11:25	08.12.2020 12:23
	<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	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0

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Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-043	669583-044	669583-045	669583-046	669583-047	669583-048
	<i>Field Id:</i>	FL18 @ 3'	FL19 @ 3'	FL20 @ 3'	FL21 @ 3'	FL22 @ 3'	FL23 @ 4'
	<i>Depth:</i>	3- ft	3- ft	3- ft	3- ft	3- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00
	<i>Analyzed:</i>	08.14.2020 01:33	08.14.2020 01:54	08.14.2020 02:14	08.14.2020 02:35	08.13.2020 23:30	08.14.2020 03:57
	<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	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00400 0.00400	<0.00399 0.00399	<0.00402 0.00402	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30
	<i>Analyzed:</i>	08.11.2020 14:29	08.11.2020 14:35	08.11.2020 14:54	08.11.2020 15:00	08.11.2020 15:07	08.11.2020 15:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		33.9 5.03	19.4 4.96	34.9 4.95	42.2 5.02	<4.99 4.99	4140 25.3
TPH By SW8015 Mod	<i>Extracted:</i>	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00
	<i>Analyzed:</i>	08.12.2020 12:42	08.12.2020 13:01	08.12.2020 13:20	08.12.2020 13:39	08.12.2020 13:58	08.12.2020 14:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-049	669583-050	669583-051	669583-052	669583-053	669583-054
	<i>Field Id:</i>	FL24 @ 4'	FL25 @ 4'	FL26 @ 4'	FL27 @ 4'	FL28 @ 4'	FL29 @ 4'
	<i>Depth:</i>	4- ft	4- ft	4- ft	4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.05.2020 00:00	08.05.2020 00:00	08.05.2020 00:00	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00
	<i>Analyzed:</i>	08.14.2020 04:17	08.14.2020 04:38	08.14.2020 04:58	08.14.2020 05:19	08.14.2020 05:39	08.14.2020 06:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00396 0.00396	<0.00400 0.00400	<0.00404 0.00404	<0.00401 0.00401
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 14:30	08.10.2020 16:15	08.10.2020 16:15	08.10.2020 16:15
	<i>Analyzed:</i>	08.11.2020 15:19	08.11.2020 15:26	08.11.2020 15:32	08.10.2020 16:50	08.10.2020 17:09	08.10.2020 17:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3190 25.3	3230 25.3	3080 24.9	4780 50.0	3990 25.3	4760 24.9
TPH By SW8015 Mod	<i>Extracted:</i>	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00
	<i>Analyzed:</i>	08.12.2020 14:36	08.12.2020 14:55	08.12.2020 15:33	08.12.2020 15:53	08.12.2020 16:12	08.12.2020 16:32
	<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	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0

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Certificate of Analysis Summary 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Brunco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea Co.,NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.14.2020 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669583-055	669583-056	669583-057	669583-058	669583-059	669583-060
	<i>Field Id:</i>	FL20 @ 4'	FL31 @ 4'	FL32 @ 4'	FL33 @ 4'	FL34 @ 4'	FL35 @ 4'
	<i>Depth:</i>	4- ft	4- ft	4- ft	4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00	08.06.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 15:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00
	<i>Analyzed:</i>	08.14.2020 06:20	08.14.2020 06:41	08.14.2020 07:01	08.14.2020 06:14	08.14.2020 06:35	08.14.2020 06:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00400 0.00400	<0.00399 0.00399	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	08.10.2020 16:15	08.10.2020 16:15	08.10.2020 16:15	08.10.2020 16:15	08.10.2020 16:15	08.10.2020 16:15
	<i>Analyzed:</i>	08.10.2020 17:21	08.10.2020 17:28	08.10.2020 17:47	08.10.2020 17:53	08.10.2020 17:59	08.10.2020 18:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		889 4.96	2130 24.9	1290 25.3	1820 25.3	1520 24.9	1110 25.1
TPH By SW8015 Mod	<i>Extracted:</i>	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00	08.12.2020 11:00
	<i>Analyzed:</i>	08.12.2020 16:51	08.12.2020 17:10	08.12.2020 17:30	08.12.2020 17:49	08.12.2020 18:08	08.12.2020 18:28
	<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	<50.0 50.0	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<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	<50.0 50.0	<49.8 49.8	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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Jessica Kramer

Analytical Report 669583

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Brunco II

12701

08.14.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.14.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **669583**

Brunco II

Project Address: Rural Lea Co.,NM

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) 669583. 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. 669583 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 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW1	S	08.04.2020 00:00		669583-001
NW2	S	08.04.2020 00:00		669583-002
NW3	S	08.05.2020 00:00		669583-003
NW4	S	08.05.2020 00:00		669583-004
NW5	S	08.06.2020 00:00		669583-005
EW1	S	08.06.2020 00:00		669583-006
EW1b	S	08.03.2020 00:00		669583-007
EW2	S	08.03.2020 00:00		669583-008
EW2b	S	08.04.2020 00:00		669583-009
EW3	S	08.04.2020 00:00		669583-010
EW4	S	08.06.2020 00:00		669583-011
EW6	S	08.06.2020 00:00		669583-012
EW7	S	08.06.2020 00:00		669583-013
EW8	S	08.06.2020 00:00		669583-014
SW1	S	08.06.2020 00:00		669583-015
SW2	S	08.06.2020 00:00		669583-016
WW1	S	08.03.2020 00:00		669583-017
WW1b	S	08.03.2020 00:00		669583-018
WW2	S	08.03.2020 00:00		669583-019
WW2b	S	08.04.2020 00:00		669583-020
WW3	S	08.03.2020 00:00		669583-021
WW3b	S	08.04.2020 00:00		669583-022
WW4	S	08.04.2020 00:00		669583-023
WW5	S	08.04.2020 00:00		669583-024
WW6	S	08.06.2020 00:00		669583-025
FL1 @4'	S	08.03.2020 00:00	4 ft	669583-026
FL2 @4'	S	08.03.2020 00:00	4 ft	669583-027
FL3 @ 4'	S	08.03.2020 00:00	4 ft	669583-028
FL4 @4'	S	08.03.2020 00:00	4 ft	669583-029
FL5 @4'	S	08.03.2020 00:00	4 ft	669583-030
FL6 @ 3'	S	08.03.2020 00:00	3 ft	669583-031
FL7 @ 3'	S	08.04.2020 00:00	3 ft	669583-032
FL8 @ 3'	S	08.04.2020 00:00	3 ft	669583-033
FL9 @ 3'	S	08.04.2020 00:00	3 ft	669583-034
FL10 @ 4'	S	08.04.2020 00:00	4 ft	669583-035
FL11 @4'	S	08.04.2020 00:00	4 ft	669583-036
FL12 @ 4'	S	08.04.2020 00:00	4 ft	669583-037
FL13 @ 4'	S	08.04.2020 00:00	4 ft	669583-038
FL14 @ 2'	S	08.05.2020 00:00	2 ft	669583-039
FL15 @ 3'	S	08.05.2020 00:00	3 ft	669583-040
FL16 @3'	S	08.05.2020 00:00	3 ft	669583-041
FL17 @ 3'	S	08.05.2020 00:00	3 ft	669583-042
FL18 @ 3'	S	08.05.2020 00:00	3 ft	669583-043

**Sample Cross Reference 669583****Etech Environmental & Safety Solution, Inc, Midland, TX****Brunco II**

FL19 @ 3'	S	08.05.2020 00:00	3 ft	669583-044
FL20 @ 3'	S	08.05.2020 00:00	3 ft	669583-045
FL21 @ 3'	S	08.05.2020 00:00	3 ft	669583-046
FL22 @ 3'	S	08.05.2020 00:00	3 ft	669583-047
FL23 @ 4'	S	08.05.2020 00:00	4 ft	669583-048
FL24 @ 4'	S	08.05.2020 00:00	4 ft	669583-049
FL25 @ 4'	S	08.05.2020 00:00	4 ft	669583-050
FL26 @ 4'	S	08.05.2020 00:00	4 ft	669583-051
FL27 @ 4'	S	08.06.2020 00:00	4 ft	669583-052
FL28 @ 4'	S	08.06.2020 00:00	4 ft	669583-053
FL29 @ 4'	S	08.06.2020 00:00	4 ft	669583-054
FL20 @ 4'	S	08.06.2020 00:00	4 ft	669583-055
FL31 @ 4'	S	08.06.2020 00:00	4 ft	669583-056
FL32 @ 4'	S	08.06.2020 00:00	4 ft	669583-057
FL33 @ 4'	S	08.06.2020 00:00	4 ft	669583-058
FL34 @ 4'	S	08.06.2020 00:00	4 ft	669583-059
FL35 @ 4'	S	08.06.2020 00:00	4 ft	669583-060

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Brunco II**Project ID: 12701
Work Order Number(s): 669583Report Date: 08.14.2020
Date Received: 08.10.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3134150 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 669583-016,669583-019,669583-017.

Batch: LBA-3134156 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 669583-027,669583-023.

Batch: LBA-3134432 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 669583-052.

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 669583-057,669583-054,669583-056,669583-045,669583-053.



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **NW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-001 Date Collected: 08.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	4.98	mg/kg	08.10.2020 14:43		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.10.2020 22:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.10.2020 22:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.10.2020 22:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.10.2020 22:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.10.2020 22:58	
o-Terphenyl	84-15-1	129	%	70-130	08.10.2020 22:58	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **NW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-001 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 18:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 18:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 18:01	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.13.2020 18:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 18:01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 18:01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 18:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.13.2020 18:01		
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.13.2020 18:01		



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **NW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-002 Date Collected: 08.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.3	4.95	mg/kg	08.10.2020 14:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.10.2020 23:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.10.2020 23:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.10.2020 23:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.10.2020 23:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.10.2020 23:58	
o-Terphenyl	84-15-1	124	%	70-130	08.10.2020 23:58	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **NW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-002 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 18:22	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 18:22	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 18:22	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 18:22	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 18:22	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 18:22	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 18:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 18:22		
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.13.2020 18:22		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **NW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-003 Date Collected: 08.05.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.3	5.03	mg/kg	08.10.2020 15:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 00:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 00:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 00:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 00:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	08.11.2020 00:18	
o-Terphenyl	84-15-1	120	%	70-130	08.11.2020 00:18	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **NW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-003 Date Collected: 08.05.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 18:42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 18:42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 18:42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 18:42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 18:42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 18:42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 18:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.13.2020 18:42		
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.13.2020 18:42		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **NW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-004 Date Collected: 08.05.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.7	4.96	mg/kg	08.10.2020 15:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 00:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 00:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 00:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 00:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	08.11.2020 00:38	
o-Terphenyl	84-15-1	118	%	70-130	08.11.2020 00:38	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **NW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-004 Date Collected: 08.05.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 09:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 09:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 09:51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 09:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 09:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 09:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 09:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.12.2020 09:51		
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.12.2020 09:51		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **NW5** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-005 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	258	4.99	mg/kg	08.10.2020 15:34		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 00:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 00:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 00:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 00:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	08.11.2020 00:58	
o-Terphenyl	84-15-1	121	%	70-130	08.11.2020 00:58	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **NW5**
 Lab Sample Id: 669583-005

Matrix: Soil
 Date Collected: 08.06.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 08.11.2020 15:00

Basis: Wet Weight

Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 10:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 10:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 10:12	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 10:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 10:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 10:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 10:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.12.2020 10:12	
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.12.2020 10:12	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-006 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.2	5.00	mg/kg	08.10.2020 15:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 01:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 01:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 01:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 01:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.11.2020 01:18	
o-Terphenyl	84-15-1	121	%	70-130	08.11.2020 01:18	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-006 Date Collected: 08.06.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 10:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 10:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 10:32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 10:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 10:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 10:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 10:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.12.2020 10:32		
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.12.2020 10:32		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW1b**
 Lab Sample Id: 669583-007

Matrix: Soil
 Date Collected: 08.03.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.10.2020 12:50

Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	08.10.2020 15:46	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 08.10.2020 16:00

Basis: Wet Weight

Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 01:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 01:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 01:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 01:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.11.2020 01:38	
o-Terphenyl	84-15-1	124	%	70-130	08.11.2020 01:38	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW1b**
Lab Sample Id: 669583-007

Matrix: Soil
Date Collected: 08.03.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 08.11.2020 15:00

Basis: Wet Weight

Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 10:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 10:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 10:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 10:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 10:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 10:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 10:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.12.2020 10:53		
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.12.2020 10:53		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-008 Date Collected: 08.03.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.15	4.96	mg/kg	08.10.2020 15:53		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 01:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 01:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 01:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 01:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	08.11.2020 01:58	
o-Terphenyl	84-15-1	119	%	70-130	08.11.2020 01:58	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-008 Date Collected: 08.03.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 11:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 11:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 11:13	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 11:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 11:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 11:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 11:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.12.2020 11:13		
1,4-Difluorobenzene	540-36-3	119	%	70-130	08.12.2020 11:13		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW2b**
 Lab Sample Id: 669583-009

Matrix: Soil
 Date Collected: 08.04.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.10.2020 12:50

Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	08.10.2020 15:59	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 08.10.2020 16:00

Basis: Wet Weight

Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 02:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 02:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 02:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 02:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.11.2020 02:17	
o-Terphenyl	84-15-1	124	%	70-130	08.11.2020 02:17	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW2b** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-009 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 11:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 11:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 11:34	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 11:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 11:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 11:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 11:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.12.2020 11:34	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.12.2020 11:34	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-010 Date Collected: 08.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	08.10.2020 16:05	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 02:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 02:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 02:37	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 02:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.11.2020 02:37	
o-Terphenyl	84-15-1	125	%	70-130	08.11.2020 02:37	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-010 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 11:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 11:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 11:54	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 11:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 11:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 11:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 11:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.12.2020 11:54		
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.12.2020 11:54		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-011 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
 Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	130	5.05	mg/kg	08.10.2020 16:12		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 03:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 03:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 03:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 03:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.11.2020 03:16	
o-Terphenyl	84-15-1	129	%	70-130	08.11.2020 03:16	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW4**
Lab Sample Id: 669583-011

Matrix: Soil
Date Collected: 08.06.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 08.11.2020 15:00

Basis: Wet Weight

Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 12:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 12:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 12:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 12:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 12:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 12:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 12:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.12.2020 12:15		
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.12.2020 12:15		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW6** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-012 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	119	4.95	mg/kg	08.11.2020 09:11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 03:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 03:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 03:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 03:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.11.2020 03:36	
o-Terphenyl	84-15-1	130	%	70-130	08.11.2020 03:36	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW6** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-012 Date Collected: 08.06.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 12:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 12:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 12:36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 12:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 12:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 12:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 12:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.12.2020 12:36		
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.12.2020 12:36		



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Brunco II

Sample Id: **EW7** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-013 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.4	5.03	mg/kg	08.11.2020 09:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 03:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 03:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 03:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 03:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.11.2020 03:55	
o-Terphenyl	84-15-1	113	%	70-130	08.11.2020 03:55	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW7** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-013 Date Collected: 08.06.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Date Prep: 08.11.2020 15:00 Basis: Wet Weight
 Seq Number: 3134344

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 12:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 12:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 12:56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 12:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 12:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 12:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 12:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.12.2020 12:56		
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.12.2020 12:56		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **EW8** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-014 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.2	4.99	mg/kg	08.11.2020 09:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 04:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 04:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 04:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 04:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-130	08.11.2020 04:15	
o-Terphenyl	84-15-1	117	%	70-130	08.11.2020 04:15	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **EW8**
Lab Sample Id: 669583-014

Matrix: Soil
Date Collected: 08.06.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.13.2020 08:15

Basis: Wet Weight

Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 19:03	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 19:03	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 19:03	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.13.2020 19:03	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 19:03	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 19:03	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 19:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.13.2020 19:03		
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.13.2020 19:03		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **SW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-015 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	299	4.96	mg/kg	08.11.2020 09:43		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 04:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 04:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 04:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 04:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.11.2020 04:34	
o-Terphenyl	84-15-1	104	%	70-130	08.11.2020 04:34	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **SW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-015 Date Collected: 08.06.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 19:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 19:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 19:24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.13.2020 19:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 19:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 19:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 19:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 19:24		
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.13.2020 19:24		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **SW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-016 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.1	5.02	mg/kg	08.11.2020 09:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 04:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 04:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 04:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 04:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.11.2020 04:54	
o-Terphenyl	84-15-1	132	%	70-130	08.11.2020 04:54	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **SW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-016 Date Collected: 08.06.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 19:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 19:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 19:44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.13.2020 19:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 19:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 19:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 19:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 19:44		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.13.2020 19:44		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **WW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-017 Date Collected: 08.03.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.71	5.00	mg/kg	08.11.2020 10:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 05:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 05:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 05:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 05:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.11.2020 05:13	
o-Terphenyl	84-15-1	132	%	70-130	08.11.2020 05:13	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW1** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-017 Date Collected: 08.03.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 20:05	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 20:05	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 20:05	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.13.2020 20:05	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 20:05	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 20:05	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 20:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.13.2020 20:05		
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.13.2020 20:05		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **WW1b** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-018 Date Collected: 08.03.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.9	5.00	mg/kg	08.11.2020 10:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 05:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 05:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 05:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 05:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.11.2020 05:32	
o-Terphenyl	84-15-1	130	%	70-130	08.11.2020 05:32	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW1b** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-018 Date Collected: 08.03.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 12:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 12:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 12:27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.13.2020 12:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 12:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 12:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 12:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.13.2020 12:27		
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.13.2020 12:27		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-019 Date Collected: 08.03.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.12	5.00	mg/kg	08.11.2020 10:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 05:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 05:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 05:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 05:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.11.2020 05:52	
o-Terphenyl	84-15-1	137	%	70-130	08.11.2020 05:52	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW2** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-019 Date Collected: 08.03.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 12:47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 12:47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 12:47	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.13.2020 12:47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 12:47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 12:47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 12:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.13.2020 12:47		
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 12:47		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **WW2b**
 Lab Sample Id: 669583-020

Matrix: Soil
 Date Collected: 08.04.2020 00:00

Date Received: 08.10.2020 10:01

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.10.2020 13:35

Basis: Wet Weight

Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.2	4.98	mg/kg	08.11.2020 10:27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 08.10.2020 16:00

Basis: Wet Weight

Seq Number: 3134150

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 06:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 06:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 06:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 06:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	08.11.2020 06:11	
o-Terphenyl	84-15-1	125	%	70-130	08.11.2020 06:11	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW2b** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-020 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.13.2020 13:07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.13.2020 13:07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.13.2020 13:07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.13.2020 13:07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.13.2020 13:07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.13.2020 13:07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.13.2020 13:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 13:07		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 13:07		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-021 Date Collected: 08.03.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.4	4.95	mg/kg	08.11.2020 10:34		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 00:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 00:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 00:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 00:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	08.11.2020 00:34	
o-Terphenyl	84-15-1	103	%	70-130	08.11.2020 00:34	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW3** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-021 Date Collected: 08.03.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 13:28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 13:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 13:28	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.13.2020 13:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 13:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 13:28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 13:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 13:28		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 13:28		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW3b** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-022 Date Collected: 08.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.5	4.97	mg/kg	08.11.2020 10:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 01:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 01:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 01:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 01:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.11.2020 01:46	
o-Terphenyl	84-15-1	115	%	70-130	08.11.2020 01:46	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW3b** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-022 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 13:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 13:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 13:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.13.2020 13:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 13:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 13:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 13:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.13.2020 13:48		
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 13:48		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-023 Date Collected: 08.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	08.11.2020 10:59	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 02:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 02:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 02:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 02:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.11.2020 02:09	
o-Terphenyl	84-15-1	142	%	70-130	08.11.2020 02:09	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW4** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-023 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 14:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 14:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 14:09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.13.2020 14:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 14:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 14:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 14:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 14:09		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 14:09		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW5** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-024 Date Collected: 08.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	08.11.2020 11:06	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 02:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 02:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 02:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 02:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.11.2020 02:33	
o-Terphenyl	84-15-1	106	%	70-130	08.11.2020 02:33	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW5** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-024 Date Collected: 08.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 14:29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 14:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 14:29	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.13.2020 14:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 14:29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 14:29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 14:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 14:29		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 14:29		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW6** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-025 Date Collected: 08.06.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.0	5.03	mg/kg	08.11.2020 11:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 02:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 02:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 02:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 02:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.11.2020 02:56	
o-Terphenyl	84-15-1	117	%	70-130	08.11.2020 02:56	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **WW6** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-025 Date Collected: 08.06.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 14:50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 14:50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 14:50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 14:50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 14:50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 14:50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 14:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.13.2020 14:50		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 14:50		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL1 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-026 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.1	4.96	mg/kg	08.11.2020 11:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 03:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 03:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 03:19	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 03:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.11.2020 03:19	
o-Terphenyl	84-15-1	114	%	70-130	08.11.2020 03:19	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL1 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-026 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 15:10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 15:10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 15:10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 15:10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 15:10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 15:10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 15:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 15:10		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 15:10		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL2 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-027 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.9	4.95	mg/kg	08.11.2020 11:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 03:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 03:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 03:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 03:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.11.2020 03:42	
o-Terphenyl	84-15-1	139	%	70-130	08.11.2020 03:42	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL2 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-027 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.13.2020 15:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.13.2020 15:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.13.2020 15:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.13.2020 15:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.13.2020 15:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.13.2020 15:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.13.2020 15:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 15:31		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 15:31		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL3 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-028 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.0	4.98	mg/kg	08.11.2020 11:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 04:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 04:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 04:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 04:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.11.2020 04:06	
o-Terphenyl	84-15-1	113	%	70-130	08.11.2020 04:06	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL3 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-028 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.13.2020 16:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.13.2020 16:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.13.2020 16:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.13.2020 16:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.13.2020 16:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.13.2020 16:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.13.2020 16:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.13.2020 16:55		
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.13.2020 16:55		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL4 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-029 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.4	5.04	mg/kg	08.11.2020 11:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 04:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 04:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 04:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 04:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.11.2020 04:29	
o-Terphenyl	84-15-1	116	%	70-130	08.11.2020 04:29	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL4 @4'**
 Lab Sample Id: 669583-029

Matrix: Soil
 Date Collected: 08.03.2020 00:00

Date Received: 08.10.2020 10:01
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.13.2020 08:15

Basis: Wet Weight

Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.13.2020 17:16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.13.2020 17:16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.13.2020 17:16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.13.2020 17:16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.13.2020 17:16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.13.2020 17:16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.13.2020 17:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.13.2020 17:16	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 17:16	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL5 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-030 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.1	5.01	mg/kg	08.11.2020 11:56		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 04:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 04:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 04:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 04:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.11.2020 04:52	
o-Terphenyl	84-15-1	120	%	70-130	08.11.2020 04:52	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL5 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-030 Date Collected: 08.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.13.2020 17:36	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.13.2020 17:36	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.13.2020 17:36	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.13.2020 17:36	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.13.2020 17:36	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.13.2020 17:36	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.13.2020 17:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 17:36		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 17:36		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL6 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-031 Date Collected: 08.03.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 13:35 Basis: Wet Weight
 Seq Number: 3134132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.8	4.95	mg/kg	08.11.2020 12:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 05:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 05:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 05:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 05:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	08.11.2020 05:38	
o-Terphenyl	84-15-1	101	%	70-130	08.11.2020 05:38	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL6 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-031 Date Collected: 08.03.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 17:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 17:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 17:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 17:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 17:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 17:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 17:56		
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 17:56		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL7 @ 3'**
 Lab Sample Id: 669583-032

Matrix: Soil
 Date Collected: 08.04.2020 00:00

Date Received: 08.10.2020 10:01
 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300
 Tech: SPC
 Analyst: CHE
 Seq Number: 3134181

Date Prep: 08.10.2020 14:30

Prep Method: E300P
 % Moisture:
 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	347	5.02	mg/kg	08.11.2020 12:41		1

Analytical Method: TPH By SW8015 Mod
 Tech: DVM
 Analyst: ARM
 Seq Number: 3134156

Date Prep: 08.10.2020 16:00

Prep Method: SW8015P
 % Moisture:
 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 06:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 06:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 06:01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 06:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	08.11.2020 06:01	
o-Terphenyl	84-15-1	97	%	70-130	08.11.2020 06:01	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL7 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-032 Date Collected: 08.04.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 18:17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 18:17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 18:17	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.13.2020 18:17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 18:17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 18:17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 18:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.13.2020 18:17		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 18:17		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL8 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-033 Date Collected: 08.04.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	288	4.96	mg/kg	08.11.2020 13:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 06:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 06:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 06:25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 06:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	08.11.2020 06:25	
o-Terphenyl	84-15-1	90	%	70-130	08.11.2020 06:25	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL8 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-033 Date Collected: 08.04.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.13.2020 18:37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.13.2020 18:37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.13.2020 18:37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.13.2020 18:37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.13.2020 18:37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.13.2020 18:37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.13.2020 18:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 18:37		
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.13.2020 18:37		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL9 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-034 Date Collected: 08.04.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	414	5.00	mg/kg	08.11.2020 13:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 06:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 06:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 06:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 06:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.11.2020 06:48	
o-Terphenyl	84-15-1	118	%	70-130	08.11.2020 06:48	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL9 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-034 Date Collected: 08.04.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.13.2020 18:58	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.13.2020 18:58	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.13.2020 18:58	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.13.2020 18:58	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.13.2020 18:58	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.13.2020 18:58	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.13.2020 18:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.13.2020 18:58		
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.13.2020 18:58		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL10 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-035 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	625	5.00	mg/kg	08.11.2020 13:12		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 07:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 07:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 07:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 07:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.11.2020 07:11	
o-Terphenyl	84-15-1	107	%	70-130	08.11.2020 07:11	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL10 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-035 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 19:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 19:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 19:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 19:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 19:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 19:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 19:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.13.2020 19:18		
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.13.2020 19:18		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL11 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-036 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1930	25.0	mg/kg	08.11.2020 13:19		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 07:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 07:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 07:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 07:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-130	08.11.2020 07:34	
o-Terphenyl	84-15-1	121	%	70-130	08.11.2020 07:34	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL11 @4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-036 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 08:15 Basis: Wet Weight
 Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 19:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 19:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 19:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.13.2020 19:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 19:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 19:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 19:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 19:39		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 19:39		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL12 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-037 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1340	5.04	mg/kg	08.11.2020 13:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 07:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 07:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 07:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 07:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	08.11.2020 07:58	
o-Terphenyl	84-15-1	102	%	70-130	08.11.2020 07:58	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL12 @ 4'**

Matrix: Soil

Date Received: 08.10.2020 10:01

Lab Sample Id: 669583-037

Date Collected: 08.04.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.13.2020 08:15

Basis: Wet Weight

Seq Number: 3134539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.13.2020 19:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.13.2020 19:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.13.2020 19:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.13.2020 19:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.13.2020 19:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.13.2020 19:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.13.2020 19:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.13.2020 19:59		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.13.2020 19:59		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL13 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-038 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1060	4.98	mg/kg	08.11.2020 13:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 08:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 08:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 08:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 08:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.11.2020 08:21	
o-Terphenyl	84-15-1	118	%	70-130	08.11.2020 08:21	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL13 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-038 Date Collected: 08.04.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.13.2020 23:51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.13.2020 23:51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.13.2020 23:51	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.13.2020 23:51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.13.2020 23:51	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.13.2020 23:51	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.13.2020 23:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.13.2020 23:51		
4-Bromofluorobenzene	460-00-4	100	%	70-130	08.13.2020 23:51		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL14 @ 2'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-039 Date Collected: 08.05.2020 00:00 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	177	5.00	mg/kg	08.11.2020 13:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 08:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 08:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 08:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 08:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	08.11.2020 08:45	
o-Terphenyl	84-15-1	105	%	70-130	08.11.2020 08:45	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL14 @ 2'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-039 Date Collected: 08.05.2020 00:00 Sample Depth: 2 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 00:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 00:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 00:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 00:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 00:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 00:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 00:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.14.2020 00:11		
4-Bromofluorobenzene	460-00-4	115	%	70-130	08.14.2020 00:11		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL15 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-040 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	190	4.97	mg/kg	08.11.2020 13:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.10.2020 16:00 Basis: Wet Weight
 Seq Number: 3134156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.11.2020 09:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.11.2020 09:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.11.2020 09:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.11.2020 09:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	08.11.2020 09:08	
o-Terphenyl	84-15-1	101	%	70-130	08.11.2020 09:08	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL15 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-040 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 00:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 00:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 00:32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.14.2020 00:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 00:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 00:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 00:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.14.2020 00:32		
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.14.2020 00:32		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL16 @3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-041 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.1	4.96	mg/kg	08.11.2020 14:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 11:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 11:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 11:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 11:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.12.2020 11:25	
o-Terphenyl	84-15-1	127	%	70-130	08.12.2020 11:25	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL16 @3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-041 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.14.2020 00:52	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.14.2020 00:52	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.14.2020 00:52	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.14.2020 00:52	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.14.2020 00:52	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.14.2020 00:52	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.14.2020 00:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	08.14.2020 00:52		
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.14.2020 00:52		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL17 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-042 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.1	4.99	mg/kg	08.11.2020 14:10		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 12:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 12:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 12:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 12:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.12.2020 12:23	
o-Terphenyl	84-15-1	124	%	70-130	08.12.2020 12:23	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL17 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-042 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.14.2020 01:13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.14.2020 01:13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.14.2020 01:13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.14.2020 01:13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.14.2020 01:13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.14.2020 01:13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.14.2020 01:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.14.2020 01:13		
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.14.2020 01:13		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL18 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-043 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.9	5.03	mg/kg	08.11.2020 14:29		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.12.2020 12:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.12.2020 12:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.12.2020 12:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.12.2020 12:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.12.2020 12:42	
o-Terphenyl	84-15-1	111	%	70-130	08.12.2020 12:42	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL18 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-043 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 01:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 01:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 01:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 01:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 01:33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 01:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 01:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.14.2020 01:33		
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.14.2020 01:33		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL19 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-044 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.4	4.96	mg/kg	08.11.2020 14:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 13:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 13:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 13:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 13:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	08.12.2020 13:01	
o-Terphenyl	84-15-1	71	%	70-130	08.12.2020 13:01	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL19 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-044 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 01:54	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.14.2020 01:54	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 01:54	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.14.2020 01:54	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 01:54	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 01:54	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.14.2020 01:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.14.2020 01:54		
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.14.2020 01:54		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL20 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-045 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.9	4.95	mg/kg	08.11.2020 14:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 13:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 13:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 13:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 13:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	08.12.2020 13:20	
o-Terphenyl	84-15-1	142	%	70-130	08.12.2020 13:20	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL20 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-045 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 02:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 02:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 02:14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.14.2020 02:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 02:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 02:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 02:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	08.14.2020 02:14		
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.14.2020 02:14		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL21 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-046 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.2	5.02	mg/kg	08.11.2020 15:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 13:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 13:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 13:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 13:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.12.2020 13:39	
o-Terphenyl	84-15-1	129	%	70-130	08.12.2020 13:39	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL21 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-046 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 02:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 02:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 02:35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.14.2020 02:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 02:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 02:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 02:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.14.2020 02:35		
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.14.2020 02:35		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL22 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-047 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	08.11.2020 15:07	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.12.2020 13:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.12.2020 13:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.12.2020 13:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.12.2020 13:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.12.2020 13:58	
o-Terphenyl	84-15-1	116	%	70-130	08.12.2020 13:58	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL22 @ 3'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-047 Date Collected: 08.05.2020 00:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.13.2020 23:30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.13.2020 23:30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.13.2020 23:30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.13.2020 23:30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.13.2020 23:30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.13.2020 23:30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.13.2020 23:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.13.2020 23:30		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.13.2020 23:30		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL23 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-048 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4140	25.3	mg/kg	08.11.2020 15:13		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.12.2020 14:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.12.2020 14:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.12.2020 14:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.12.2020 14:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.12.2020 14:17	
o-Terphenyl	84-15-1	130	%	70-130	08.12.2020 14:17	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL23 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-048 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 03:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 03:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 03:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.14.2020 03:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 03:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 03:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 03:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	08.14.2020 03:57		
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.14.2020 03:57		



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Brunco II

Sample Id: **FL24 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-049 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3190	25.3	mg/kg	08.11.2020 15:19		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 14:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 14:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 14:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 14:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.12.2020 14:36	
o-Terphenyl	84-15-1	130	%	70-130	08.12.2020 14:36	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL24 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-049 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.14.2020 04:17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.14.2020 04:17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.14.2020 04:17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.14.2020 04:17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.14.2020 04:17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.14.2020 04:17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.14.2020 04:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.14.2020 04:17		
4-Bromofluorobenzene	460-00-4	127	%	70-130	08.14.2020 04:17		



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Brunco II

Sample Id: **FL25 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-050 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3230	25.3	mg/kg	08.11.2020 15:26		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 14:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 14:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 14:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 14:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.12.2020 14:55	
o-Terphenyl	84-15-1	129	%	70-130	08.12.2020 14:55	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL25 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-050 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 04:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 04:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 04:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 04:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 04:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 04:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 04:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.14.2020 04:38		
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.14.2020 04:38		



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL26 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-051 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 14:30 Basis: Wet Weight
 Seq Number: 3134181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3080	24.9	mg/kg	08.11.2020 15:32		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.12.2020 15:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.12.2020 15:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.12.2020 15:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.12.2020 15:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	08.12.2020 15:33	
o-Terphenyl	84-15-1	73	%	70-130	08.12.2020 15:33	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL26 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-051 Date Collected: 08.05.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 04:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.14.2020 04:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 04:58	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.14.2020 04:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 04:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 04:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.14.2020 04:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	08.14.2020 04:58		
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.14.2020 04:58		



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Brunco II

Sample Id: **FL27 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-052 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4780	50.0	mg/kg	08.10.2020 16:50		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.12.2020 15:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.12.2020 15:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.12.2020 15:53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.12.2020 15:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	68	%	70-130	08.12.2020 15:53	**
o-Terphenyl	84-15-1	71	%	70-130	08.12.2020 15:53	



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL27 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-052 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 05:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 05:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 05:19	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.14.2020 05:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 05:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 05:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 05:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.14.2020 05:19		
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.14.2020 05:19		



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Brunco II

Sample Id: **FL28 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-053 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3990	25.3	mg/kg	08.10.2020 17:09		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 16:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 16:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 16:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 16:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.12.2020 16:12	
o-Terphenyl	84-15-1	133	%	70-130	08.12.2020 16:12	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL28 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-053 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.14.2020 05:39	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.14.2020 05:39	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.14.2020 05:39	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.14.2020 05:39	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.14.2020 05:39	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.14.2020 05:39	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.14.2020 05:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.14.2020 05:39		
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.14.2020 05:39		



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Brunco II

Sample Id: **FL29 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-054 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4760	24.9	mg/kg	08.10.2020 17:15		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 16:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 16:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 16:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 16:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-130	08.12.2020 16:32	
o-Terphenyl	84-15-1	132	%	70-130	08.12.2020 16:32	**



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Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL29 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-054 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 06:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 06:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 06:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.14.2020 06:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 06:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 06:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 06:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.14.2020 06:00		
4-Bromofluorobenzene	460-00-4	123	%	70-130	08.14.2020 06:00		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL20 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-055 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	889	4.96	mg/kg	08.10.2020 17:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.12.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.12.2020 16:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.12.2020 16:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.12.2020 16:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-130	08.12.2020 16:51	
o-Terphenyl	84-15-1	126	%	70-130	08.12.2020 16:51	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL20 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-055 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 06:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.14.2020 06:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 06:20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.14.2020 06:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 06:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 06:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.14.2020 06:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.14.2020 06:20		
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.14.2020 06:20		



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL31 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-056 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2130	24.9	mg/kg	08.10.2020 17:28		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.12.2020 17:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.12.2020 17:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.12.2020 17:10	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.12.2020 17:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.12.2020 17:10	
o-Terphenyl	84-15-1	138	%	70-130	08.12.2020 17:10	**



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL31 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-056 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 06:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 06:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 06:41	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.14.2020 06:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 06:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 06:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 06:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.14.2020 06:41		
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.14.2020 06:41		



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL32 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-057 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1290	25.3	mg/kg	08.10.2020 17:47		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 17:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 17:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 17:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 17:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.12.2020 17:30	
o-Terphenyl	84-15-1	132	%	70-130	08.12.2020 17:30	**



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL32 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-057 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 15:00 Basis: Wet Weight
 Seq Number: 3134538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 07:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 07:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 07:01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.14.2020 07:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 07:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 07:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 07:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.14.2020 07:01		
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.14.2020 07:01		



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL33 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-058 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1820	25.3	mg/kg	08.10.2020 17:53		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 17:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 17:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 17:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 17:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.12.2020 17:49	
o-Terphenyl	84-15-1	130	%	70-130	08.12.2020 17:49	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL33 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-058 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 16:00 Basis: Wet Weight
 Seq Number: 3134542

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 06:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 06:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 06:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.14.2020 06:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 06:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 06:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 06:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.14.2020 06:14		
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.14.2020 06:14		



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL34 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-059 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1520	24.9	mg/kg	08.10.2020 17:59		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.12.2020 18:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.12.2020 18:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.12.2020 18:08	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.12.2020 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.12.2020 18:08	
o-Terphenyl	84-15-1	129	%	70-130	08.12.2020 18:08	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX Brunco II

Sample Id: **FL34 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-059 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.13.2020 16:00 Basis: Wet Weight
 Seq Number: 3134542

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 06:35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 06:35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 06:35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 06:35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 06:35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 06:35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 06:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.14.2020 06:35		
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.14.2020 06:35		



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL35 @ 4'** Matrix: Soil Date Received: 08.10.2020 10:01
 Lab Sample Id: 669583-060 Date Collected: 08.06.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.10.2020 16:15 Basis: Wet Weight
 Seq Number: 3134092

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1110	25.1	mg/kg	08.10.2020 18:06		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 11:00 Basis: Wet Weight
 Seq Number: 3134432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 18:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 18:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 18:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 18:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.12.2020 18:28	
o-Terphenyl	84-15-1	129	%	70-130	08.12.2020 18:28	



Certificate of Analytical Results 669583

Etech Environmental & Safety Solution, Inc, Midland, TX

Brunco II

Sample Id: **FL35 @ 4'**

Matrix: Soil

Date Received: 08.10.2020 10:01

Lab Sample Id: 669583-060

Date Collected: 08.06.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

Seq Number: 3134542

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 06:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 06:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 06:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.14.2020 06:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 06:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 06:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 06:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.14.2020 06:55		
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.14.2020 06:55		

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

Brunco II

Analytical Method: Chloride by EPA 300

Seq Number: 3134090

Matrix: Solid

Prep Method: E300P

Date Prep: 08.10.2020

MB Sample Id: 7709073-1-BLK

LCS Sample Id: 7709073-1-BKS

LCSD Sample Id: 7709073-1-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	264	106	264	106	90-110	0	20	mg/kg	08.10.2020 13:08	

Analytical Method: Chloride by EPA 300

Seq Number: 3134132

Matrix: Solid

Prep Method: E300P

Date Prep: 08.10.2020

MB Sample Id: 7709074-1-BLK

LCS Sample Id: 7709074-1-BKS

LCSD Sample Id: 7709074-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	260	104	90-110	0	20	mg/kg	08.11.2020 08:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3134181

Matrix: Solid

Prep Method: E300P

Date Prep: 08.10.2020

MB Sample Id: 7709079-1-BLK

LCS Sample Id: 7709079-1-BKS

LCSD Sample Id: 7709079-1-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	262	105	262	105	90-110	0	20	mg/kg	08.11.2020 12:28	

Analytical Method: Chloride by EPA 300

Seq Number: 3134092

Matrix: Solid

Prep Method: E300P

Date Prep: 08.10.2020

MB Sample Id: 7709099-1-BLK

LCS Sample Id: 7709099-1-BKS

LCSD Sample Id: 7709099-1-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	267	107	267	107	90-110	0	20	mg/kg	08.10.2020 16:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3134090

Matrix: Soil

Prep Method: E300P

Date Prep: 08.10.2020

Parent Sample Id: 669580-018

MS Sample Id: 669580-018 S

MSD Sample Id: 669580-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2160	1250	3480	106	3460	104	90-110	1	20	mg/kg	08.10.2020 13:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3134090

Matrix: Soil

Prep Method: E300P

Date Prep: 08.10.2020

Parent Sample Id: 669583-002

MS Sample Id: 669583-002 S

MSD Sample Id: 669583-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.3	248	271	105	268	104	90-110	1	20	mg/kg	08.10.2020 14:56	

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

Brunco II

Analytical Method: Chloride by EPA 300

Seq Number: 3134132

Parent Sample Id: 669583-012

Matrix: Soil

MS Sample Id: 669583-012 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669583-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	119	248	369	101	368	100	90-110	0	20	mg/kg	08.11.2020 09:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3134132

Parent Sample Id: 669583-022

Matrix: Soil

MS Sample Id: 669583-022 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669583-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.5	249	285	104	284	104	90-110	0	20	mg/kg	08.11.2020 10:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3134181

Parent Sample Id: 669583-032

Matrix: Soil

MS Sample Id: 669583-032 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669583-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	347	251	606	103	597	100	90-110	1	20	mg/kg	08.11.2020 12:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3134181

Parent Sample Id: 669583-042

Matrix: Soil

MS Sample Id: 669583-042 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669583-042 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.1	250	292	107	289	106	90-110	1	20	mg/kg	08.11.2020 14:16	

Analytical Method: Chloride by EPA 300

Seq Number: 3134092

Parent Sample Id: 669583-052

Matrix: Soil

MS Sample Id: 669583-052 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669583-052 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4780	2500	7370	104	7480	108	90-110	1	20	mg/kg	08.10.2020 16:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3134092

Parent Sample Id: 669607-003

Matrix: Soil

MS Sample Id: 669607-003 S

Prep Method: E300P

Date Prep: 08.10.2020

MSD Sample Id: 669607-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	473	250	725	101	723	100	90-110	0	20	mg/kg	08.10.2020 18:25	

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

Brunco II

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134150

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.10.2020

MB Sample Id: 7709124-1-BLK

LCS Sample Id: 7709124-1-BKS

LCSD Sample Id: 7709124-1-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	847	85	852	85	70-130	1	20	mg/kg	08.10.2020 22:18	
Diesel Range Organics (DRO)	<50.0	1000	836	84	851	85	70-130	2	20	mg/kg	08.10.2020 22:18	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	113		123		122		70-130			%	08.10.2020 22:18	
o-Terphenyl	120		118		123		70-130			%	08.10.2020 22:18	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134156

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.10.2020

MB Sample Id: 7709125-1-BLK

LCS Sample Id: 7709125-1-BKS

LCSD Sample Id: 7709125-1-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	873	87	853	85	70-130	2	20	mg/kg	08.10.2020 23:46	
Diesel Range Organics (DRO)	<50.0	1000	909	91	921	92	70-130	1	20	mg/kg	08.10.2020 23:46	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	103		116		118		70-130			%	08.10.2020 23:46	
o-Terphenyl	93		109		111		70-130			%	08.10.2020 23:46	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134432

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.12.2020

MB Sample Id: 7709333-1-BLK

LCS Sample Id: 7709333-1-BKS

LCSD Sample Id: 7709333-1-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	1090	109	985	99	70-130	10	20	mg/kg	08.12.2020 10:48	
Diesel Range Organics (DRO)	<50.0	1000	1090	109	991	99	70-130	10	20	mg/kg	08.12.2020 10:48	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	73		79		74		70-130			%	08.12.2020 10:48	
o-Terphenyl	77		78		73		70-130			%	08.12.2020 10:48	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134150

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.10.2020

MB Sample Id: 7709124-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.10.2020 21:57	

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

Brunco II

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134156

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.10.2020

MB Sample Id: 7709125-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units

mg/kg

**Analysis
Date**

08.10.2020 23:22

Flag**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3134432

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.12.2020

MB Sample Id: 7709333-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units

mg/kg

**Analysis
Date**

08.12.2020 10:28

Flag**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3134150

Matrix: Soil

Prep Method: SW8015P

Date Prep: 08.10.2020

Parent Sample Id: 669583-001

MS Sample Id: 669583-001 S

MSD Sample Id: 669583-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

**Parent
Result**

<49.9

**Spike
Amount**

997

**MS
Result**

878

**MS
%Rec**

88

**MSD
Result**

875

**MSD
%Rec**

88

Limits

70-130

%RPD

0

**RPD
Limit**

20

Units

mg/kg

**Analysis
Date**

08.10.2020 23:18

Flag

Diesel Range Organics (DRO)

<49.9

997

874

88

878

88

70-130

0

20

mg/kg

08.10.2020 23:18

Surrogate

1-Chlorooctane

**MS
%Rec**

129

**MS
Flag****MSD
%Rec**

129

**MSD
Flag****Limits**

70-130

Units

%

**Analysis
Date**

08.10.2020 23:18

o-Terphenyl

125

123

70-130

%

08.10.2020 23:18

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134156

Matrix: Soil

Prep Method: SW8015P

Date Prep: 08.10.2020

Parent Sample Id: 669583-021

MS Sample Id: 669583-021 S

MSD Sample Id: 669583-021 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

**Parent
Result**

<49.9

**Spike
Amount**

997

**MS
Result**

856

**MS
%Rec**

86

**MSD
Result**

856

**MSD
%Rec**

86

Limits

70-130

%RPD

0

**RPD
Limit**

20

Units

mg/kg

**Analysis
Date**

08.11.2020 00:58

Flag

Diesel Range Organics (DRO)

<49.9

997

872

87

900

90

70-130

3

20

mg/kg

08.11.2020 00:58

Surrogate

1-Chlorooctane

**MS
%Rec**

122

**MS
Flag****MSD
%Rec**

122

**MSD
Flag****Limits**

70-130

Units

%

**Analysis
Date**

08.11.2020 00:58

o-Terphenyl

108

113

70-130

%

08.11.2020 00:58

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

Brunco II

Analytical Method: TPH By SW8015 Mod

Seq Number: 3134432

Parent Sample Id: 669583-041

Matrix: Soil

MS Sample Id: 669583-041 S

Prep Method: SW8015P

Date Prep: 08.12.2020

MSD Sample Id: 669583-041 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	997	954	96	943	95	70-130	1	20	mg/kg	08.12.2020 11:44	
Diesel Range Organics (DRO)	<49.9	997	965	97	984	99	70-130	2	20	mg/kg	08.12.2020 11:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		80		70-130	%	08.12.2020 11:44
o-Terphenyl	71		72		70-130	%	08.12.2020 11:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134344

MB Sample Id: 7709298-1-BLK

Matrix: Solid

LCS Sample Id: 7709298-1-BKS

Prep Method: SW5035A

Date Prep: 08.11.2020

LCSD Sample Id: 7709298-1-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	0.106	106	0.0990	99	70-130	7	35	mg/kg	08.12.2020 07:29	
Toluene	<0.00200	0.100	0.104	104	0.0938	94	70-130	10	35	mg/kg	08.12.2020 07:29	
Ethylbenzene	<0.00200	0.100	0.103	103	0.0909	91	70-130	12	35	mg/kg	08.12.2020 07:29	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.181	91	70-130	14	35	mg/kg	08.12.2020 07:29	
o-Xylene	<0.00200	0.100	0.104	104	0.0912	91	70-130	13	35	mg/kg	08.12.2020 07:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		99		100		70-130	%	08.12.2020 07:29
4-Bromofluorobenzene	98		106		98		70-130	%	08.12.2020 07:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134537

MB Sample Id: 7709442-1-BLK

Matrix: Solid

LCS Sample Id: 7709442-1-BKS

Prep Method: SW5035A

Date Prep: 08.13.2020

LCSD Sample Id: 7709442-1-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	0.102	102	0.105	105	70-130	3	35	mg/kg	08.13.2020 09:00	
Toluene	<0.00200	0.100	0.0967	97	0.0967	97	70-130	0	35	mg/kg	08.13.2020 09:00	
Ethylbenzene	<0.00200	0.100	0.0956	96	0.0942	94	70-130	1	35	mg/kg	08.13.2020 09:00	
m,p-Xylenes	<0.00400	0.200	0.191	96	0.186	93	70-130	3	35	mg/kg	08.13.2020 09:00	
o-Xylene	<0.00200	0.100	0.0929	93	0.0911	91	70-130	2	35	mg/kg	08.13.2020 09:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		99		101		70-130	%	08.13.2020 09:00
4-Bromofluorobenzene	90		98		95		70-130	%	08.13.2020 09:00

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

Brunco II

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134539

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.13.2020

MB Sample Id: 7709444-1-BLK

LCS Sample Id: 7709444-1-BKS

LCSD Sample Id: 7709444-1-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	0.116	116	0.110	110	70-130	5	35	mg/kg	08.13.2020 09:00	
Toluene	<0.00200	0.100	0.124	124	0.120	120	70-130	3	35	mg/kg	08.13.2020 09:00	
Ethylbenzene	<0.00200	0.100	0.108	108	0.103	103	70-130	5	35	mg/kg	08.13.2020 09:00	
m,p-Xylenes	<0.00400	0.200	0.218	109	0.208	104	70-130	5	35	mg/kg	08.13.2020 09:00	
o-Xylene	<0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	08.13.2020 09:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		100		70-130	%	08.13.2020 09:00
4-Bromofluorobenzene	102		99		99		70-130	%	08.13.2020 09:00

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134538

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.13.2020

MB Sample Id: 7709443-1-BLK

LCS Sample Id: 7709443-1-BKS

LCSD Sample Id: 7709443-1-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	0.112	112	0.105	105	70-130	6	35	mg/kg	08.13.2020 21:07	
Toluene	<0.00200	0.100	0.101	101	0.0966	97	70-130	4	35	mg/kg	08.13.2020 21:07	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0941	94	70-130	1	35	mg/kg	08.13.2020 21:07	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.185	93	70-130	0	35	mg/kg	08.13.2020 21:07	
o-Xylene	<0.00200	0.100	0.0930	93	0.0924	92	70-130	1	35	mg/kg	08.13.2020 21:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		103		101		70-130	%	08.13.2020 21:07
4-Bromofluorobenzene	89		96		97		70-130	%	08.13.2020 21:07

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134542

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.13.2020

MB Sample Id: 7709445-1-BLK

LCS Sample Id: 7709445-1-BKS

LCSD Sample Id: 7709445-1-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	0.108	108	0.107	107	70-130	1	35	mg/kg	08.13.2020 21:02	
Toluene	<0.00200	0.100	0.112	112	0.114	114	70-130	2	35	mg/kg	08.13.2020 21:02	
Ethylbenzene	<0.00200	0.100	0.0970	97	0.0972	97	70-130	0	35	mg/kg	08.13.2020 21:02	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.197	99	70-130	1	35	mg/kg	08.13.2020 21:02	
o-Xylene	<0.00200	0.100	0.0975	98	0.0977	98	70-130	0	35	mg/kg	08.13.2020 21:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		101		70-130	%	08.13.2020 21:02
4-Bromofluorobenzene	103		100		102		70-130	%	08.13.2020 21:02

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

Brunco II

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134344

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.11.2020

Parent Sample Id: 669583-008

MS Sample Id: 669583-008 S

MSD Sample Id: 669583-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0844	84	0.0898	90	70-130	6	35	mg/kg	08.12.2020 08:10	
Toluene	<0.00200	0.100	0.0784	78	0.0844	84	70-130	7	35	mg/kg	08.12.2020 08:10	
Ethylbenzene	<0.00200	0.100	0.0742	74	0.0803	80	70-130	8	35	mg/kg	08.12.2020 08:10	
m,p-Xylenes	<0.00400	0.200	0.147	74	0.158	79	70-130	7	35	mg/kg	08.12.2020 08:10	
o-Xylene	<0.00200	0.100	0.0728	73	0.0781	78	70-130	7	35	mg/kg	08.12.2020 08:10	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	08.12.2020 08:10
4-Bromofluorobenzene	105		103		70-130	%	08.12.2020 08:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134537

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.13.2020

Parent Sample Id: 669566-008

MS Sample Id: 669566-008 S

MSD Sample Id: 669566-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.101	101	0.104	104	70-130	3	35	mg/kg	08.13.2020 09:41	
Toluene	<0.00200	0.0998	0.0835	84	0.0810	81	70-130	3	35	mg/kg	08.13.2020 09:41	
Ethylbenzene	<0.00200	0.0998	0.0699	70	0.0662	66	70-130	5	35	mg/kg	08.13.2020 09:41	X
m,p-Xylenes	<0.00399	0.200	0.134	67	0.122	61	70-130	9	35	mg/kg	08.13.2020 09:41	X
o-Xylene	<0.00200	0.0998	0.0664	67	0.0607	61	70-130	9	35	mg/kg	08.13.2020 09:41	X

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		107		70-130	%	08.13.2020 09:41
4-Bromofluorobenzene	94		95		70-130	%	08.13.2020 09:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134539

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.13.2020

Parent Sample Id: 669583-023

MS Sample Id: 669583-023 S

MSD Sample Id: 669583-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0942	95	0.0960	96	70-130	2	35	mg/kg	08.13.2020 09:41	
Toluene	<0.00199	0.0996	0.100	100	0.103	103	70-130	3	35	mg/kg	08.13.2020 09:41	
Ethylbenzene	<0.00199	0.0996	0.0827	83	0.0862	86	70-130	4	35	mg/kg	08.13.2020 09:41	
m,p-Xylenes	<0.00398	0.199	0.165	83	0.171	86	70-130	4	35	mg/kg	08.13.2020 09:41	
o-Xylene	<0.00199	0.0996	0.0819	82	0.0846	85	70-130	3	35	mg/kg	08.13.2020 09:41	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		101		70-130	%	08.13.2020 09:41
4-Bromofluorobenzene	102		103		70-130	%	08.13.2020 09:41

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

Brunco II

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134538

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.13.2020

Parent Sample Id: 669583-047

MS Sample Id: 669583-047 S

MSD Sample Id: 669583-047 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0893	88	0.0877	88	70-130	2	35	mg/kg	08.13.2020 21:48	
Toluene	<0.00202	0.101	0.0810	80	0.0776	78	70-130	4	35	mg/kg	08.13.2020 21:48	
Ethylbenzene	<0.00202	0.101	0.0776	77	0.0728	73	70-130	6	35	mg/kg	08.13.2020 21:48	
m,p-Xylenes	<0.00404	0.202	0.153	76	0.143	72	70-130	7	35	mg/kg	08.13.2020 21:48	
o-Xylene	<0.00202	0.101	0.0758	75	0.0707	71	70-130	7	35	mg/kg	08.13.2020 21:48	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		104		70-130	%	08.13.2020 21:48
4-Bromofluorobenzene	104		100		70-130	%	08.13.2020 21:48

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134542

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.13.2020

Parent Sample Id: 669791-001

MS Sample Id: 669791-001 S

MSD Sample Id: 669791-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0896	90	0.0917	92	70-130	2	35	mg/kg	08.13.2020 21:42	
Toluene	<0.00199	0.0996	0.0961	96	0.0989	99	70-130	3	35	mg/kg	08.13.2020 21:42	
Ethylbenzene	<0.00199	0.0996	0.0822	83	0.0842	85	70-130	2	35	mg/kg	08.13.2020 21:42	
m,p-Xylenes	<0.00398	0.199	0.165	83	0.169	85	70-130	2	35	mg/kg	08.13.2020 21:42	
o-Xylene	<0.00199	0.0996	0.0804	81	0.0823	83	70-130	2	35	mg/kg	08.13.2020 21:42	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	08.13.2020 21:42
4-Bromofluorobenzene	103		103		70-130	%	08.13.2020 21:42

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) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No: U69583

www.xenco.com Page 1 of 6

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: <u>PM@etechenv.com</u> + Client

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ 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			
Bronco II																				HNO3: HN			
Project Number:		Routine: ☐																		H2SO4: H2			
12701																				HCL: HL			
Project Location		Rush: ☒																		None: NO			
Rural Lea Co., NM																				NaOH: Na			
Sampler's Name:		Due Date: ASAP																		MeOH: Me			
Miguel Ramirez																				Zn Acetate+ NaOH: Zn			
PO #:																				TAT starts the day received by the lab, if received by 4:30pm			
SAMPLE RECEIPT		Temp Blank: Yes ☐ No ☒		Wet Ice: Yes ☐ No ☒																		Sample Comments	
Temperature (°C):		Thermometer ID:																					
Received Intact:		Yes ☒ No ☐																					
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Correction Factor:																			
Sample Custody Seals:		Yes ☐ No ☒ N/A		Total Containers:																			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	Cl- (E300) RUSH														
NW1	Soil	8/4/2020			1/NO	X	X	X											Rush Chloride Only				
NW2	Soil	8/4/2020			1/NO	X	X	X											Rush Chloride Only				
NW3	Soil	8/5/2020			1/NO	X	X	X											Rush Chloride Only				
NW4	Soil	8/5/2020			1/NO	X	X	X											Rush Chloride Only				
NW5	Soil	8/6/2020			1/NO	X	X	X											Rush Chloride Only				
EW1	Soil	8/3/2020			1/NO	X	X	X											Rush Chloride Only				
EW1b	Soil	8/3/2020			1/NO	X	X	X											Rush Chloride Only				
EW2	Soil	8/3/2020			1/NO	X	X	X											Rush Chloride Only				
EW2b	Soil	8/4/2020			1/NO	X	X	X											Rush Chloride Only				
EW3	Soil	8/3/2020			1/NO	X	X	X											Rush Chloride Only				

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

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1 <u>[Signature]</u>		N. D.		2:41/8-20		2 <u>[Signature]</u>		[Signature]		8/10/21	
3 <u>[Signature]</u>						4 <u>[Signature]</u>					



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
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 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

 Work Order No. W49583

 www.xenco.com Page 2 of 6

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: <u>PM@etechenv.com</u> + Client

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

Project Name:	Bronco II		Turn Around	ANALYSIS REQUEST																Preservative Codes			
Project Number:	12701		Routine:																	HNO3: HN			
Project Location	Rural Lea Co., NM		Rush:																	H2SO4: H2			
Sampler's Name:	Miguel Ramirez		Due Date:																	HCL: HL			
PO #:																				None: NO			
SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒																	NaOH: Na	
Temperature (°C):	0.0102		Thermometer ID																		MeOH: Me		
Received Intact:	Yes ☐ No ☐																				Zn Acetate+ NaOH: Zn		
Cooler Custody Seals:	Yes ☐ No ☐ N/A		Correction Factor:																		TAT starts the day received by the lab, if received by 4:30pm		
Sample Custody Seals:	Yes ☐ No ☐ N/A		Total Containers:																				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	Cl- (E300)	RUSH													Sample Comments	
EW4	Soil	8/4/2020			1/NO	X	X	X														Rush Chloride Only	
EW6	Soil	8/6/2020			1/NO	X	X	X														Rush Chloride Only	
EW7	Soil	8/6/2020			1/NO	X	X	X														Rush Chloride Only	
EW8	Soil	8/6/2020			1/NO	X	X	X														Rush Chloride Only	
SW1	Soil	8/6/2020			1/NO	X	X	X														Rush Chloride Only	
SW2	Soil	8/6/2020			1/NO	X	X	X														Rush Chloride Only	
WW1	Soil	8/3/2020			1/NO	X	X	X														Rush Chloride Only	
WW1b	Soil	8/3/2020			1/NO	X	X	X														Rush Chloride Only	
WW2	Soil	8/3/2020			1/NO	X	X	X														Rush Chloride Only	
WW2b	Soil	8/4/2020			1/NO	X	X	X														Rush Chloride Only	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	NR	2/4/2020	2		8/10/20
3			4		
5			6		



Chain of Custody

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 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

069583

www.xenco.com Page 3 of 6

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	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 ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		Bronco II		Turn Around		ANALYSIS REQUEST																Preservative Codes			
Project Number:		12701		Routine: ☐																		HNO3: HN			
Project Location		Rural Lea Co., NM		Rush: ☒																		H2S04: H2			
Sampler's Name:		Miguel Ramirez		Due Date: ASAP																		HCL: HL			
PO #:																						None: NO			
SAMPLE RECEIPT				Temp Blank: Yes ☒ No ☐		Wet Ice: Yes ☐ No ☒																		NaOH: Na	
Temperature (°C):				0.016.2		Thermometer ID:																		MeOH: Me	
Received Intact:				Yes No																				Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:				Yes No N/A		Correction Factor:																		TAT starts the day received by the lab, if received by 4:30pm	
Sample Custody Seals:				Yes No N/A		Total Containers:																			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	CI- (E300)	RUSH												Sample Comments			
WW3		Soil	8/3/2020			1/NO	X	X	X													Rush Chloride Only			
WW3b		Soil	8/4/2020			1/NO	X	X	X													Rush Chloride Only			
WW4		Soil	8/4/2020			1/NO	X	X	X													Rush Chloride Only			
WW5		Soil	8/4/2020			1/NO	X	X	X													Rush Chloride Only			
WW6		Soil	8/6/2020			1/NO	X	X	X													Rush Chloride Only			
FL1 @ 4'		Soil	8/3/2020		4'	1/NO	X	X	X													Rush Chloride Only			
FL2 @ 4'		Soil	8/3/2020		4'	1/NO	X	X	X													Rush Chloride Only			
FL3 @ 4'		Soil	8/3/2020		4'	1/NO	X	X	X													Rush Chloride Only			
FL4 @ 4'		Soil	8/3/2020		4'	1/NO	X	X	X													Rush Chloride Only			
FL5 @ 4'		Soil	8/3/2020		4'	1/NO	X	X	X													Rush Chloride Only			

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	244/8-7-20	2 <i>[Signature]</i>	<i>[Signature]</i>	8/10
3			4		10/1
5			6		



Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
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Atlanta, GA (770) 449-8800

Work Order No: 104583

www.xenco.com Page 4 of 6

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	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:	

[illegible]

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	Tl	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TCLP / SPLP 6010:		8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U											1631 / 245.1 / 7470 / 7471:	Hg

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		2		3	2:45/8-7-20
3		4		5	
5		6		7	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		2/4/8-7-16 ²			8/10/01



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: W669583

www.xenco.com Page 6 of 6

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: <u>PM@etechenv.com</u> + Client

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

Project Name:		Bronco II		Turn Around		ANALYSIS REQUEST																Preservative Codes	
Project Number:		12701		Routine: ☐																		HNO3: HN	
Project Location		Rural Lea Co., NM		Rush: ☒																		H2S04: H2	
Sampler's Name:		Miguel Ramirez		Due Date: ASAP																		HCL: HL	
PO #:																						None: NO	
SAMPLE RECEIPT		Temp Blank: Yes ☒ No ☐		Wet Ice: Yes ☒ No ☐																		NaOH: Na	
Temperature (°C):		0.0702		Thermometer ID: 828																		MeOH: Me	
Received Intact:		Yes ☒ No ☐																				Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Correction Factor:																		TAT starts the day received by the lab, if received by 4:30pm	
Sample Custody Seals:		Yes ☒ No ☐ N/A		Total Containers:																		Sample Comments	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	Cl- (E300)	RUSH											Sample Comments		
FL26 @ 4'		Soil	8/5/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL27 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL28 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL29 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL20 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL31 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL32 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL33 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL34 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					
FL35 @ 4'		Soil	8/6/2020		4'	1/NO	X	X	X									Rush Chloride Only					

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

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	Relinquished by: (Signature)		Received by: (Signature)		Date/Time
1 <u>[Signature]</u>		2 <u>[Signature]</u>		2:46/8-720	3 <u>[Signature]</u>		4 <u>[Signature]</u>		8/10/20
3					5				
5					6				

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.10.2020 10.01.00 AM

Work Order #: 669583

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#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

BTEX was in bulk container

* 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: 08.10.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.10.2020

Certificate of Analysis Summary 679758

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Solaris Bronco II

Project Id: 12701
Contact: PM
Project Location: Rural Lea County, New Mexico

Date Received in Lab: Thu 12.03.2020 15:57
Report Date: 12.04.2020 14:12
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	679758-001	679758-002	679758-003			
	Field Id:	SW5	EW5	FL 36 @ 4'			
	Depth:			4- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	12.03.2020 00:00	12.03.2020 00:00	12.03.2020 00:00			
BTEX by EPA 8021B	Extracted:	12.03.2020 17:00	12.03.2020 17:00	12.03.2020 17:00			
	Analyzed:	12.03.2020 21:54	12.03.2020 22:16	12.03.2020 22:38			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199			
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199			
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199			
m,p-Xylenes		<0.00398 0.00398	<0.00396 0.00396	<0.00398 0.00398			
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199			
Total Xylenes		<0.001990 0.001990	<0.001980 0.001980	<0.001990 0.001990			
Total BTEX		<0.001990 0.001990	<0.001980 0.001980	<0.001990 0.001990			
Inorganic Anions by EPA 300	Extracted:	12.03.2020 17:00	12.03.2020 17:00	12.03.2020 17:00			
	Analyzed:	12.04.2020 01:05	12.04.2020 01:11	12.04.2020 01:17			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		56.8 9.92	49.5 9.96	737 9.96			
TPH by SW8015 Mod	Extracted:	12.03.2020 17:00	12.03.2020 17:00	12.03.2020 17:00			
	Analyzed:	12.03.2020 19:52	12.03.2020 20:51	12.03.2020 21:11			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.3 50.3	<49.9 49.9			
Diesel Range Organics (DRO)		<50.2 50.2	<50.3 50.3	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.3 50.3	<49.9 49.9			
Total TPH		<50.20 50.20	<50.30 50.30	<49.90 49.90			

BRL - Below Reporting Limit

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





Analytical Report 679758

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Solaris Bronco II

12701

12.04.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.04.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **679758**

Solaris Bronco II

Project Address: Rural Lea County, New Mexico

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) 679758. 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. 679758 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 679758****Etech Environmental & Safety Solution, Inc, Midland, TX**

Solaris Bronco II

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW5	S	12.03.2020 00:00		679758-001
EW5	S	12.03.2020 00:00		679758-002
FL 36 @ 4'	S	12.03.2020 00:00	4 ft	679758-003



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Solaris Bronco II

Project ID: 12701
Work Order Number(s): 679758

Report Date: 12.04.2020
Date Received: 12.03.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 679758

Etech Environmental & Safety Solution, Inc, Midland, TX Solaris Bronco II

Sample Id: **SW5** Matrix: Soil Date Received: 12.03.2020 15:57
 Lab Sample Id: 679758-001 Date Collected: 12.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143897 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.8	9.92	mg/kg	12.04.2020 01:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143891 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.03.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.03.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.03.2020 19:52	U	1
Total TPH	PHC635	<50.20	50.20	mg/kg	12.03.2020 19:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-135	12.03.2020 19:52		
o-Terphenyl	84-15-1	99	%	70-135	12.03.2020 19:52		



Certificate of Analytical Results 679758

Etech Environmental & Safety Solution, Inc, Midland, TX Solaris Bronco II

Sample Id: **SW5**
Lab Sample Id: 679758-001

Matrix: Soil
Date Collected: 12.03.2020 00:00

Date Received: 12.03.2020 15:57

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.03.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143889

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.03.2020 21:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.03.2020 21:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.03.2020 21:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.03.2020 21:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.03.2020 21:54	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	12.03.2020 21:54	U	1
Total BTEX		<0.001990	0.001990	mg/kg	12.03.2020 21:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.03.2020 21:54		
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.03.2020 21:54		



Certificate of Analytical Results 679758

Etech Environmental & Safety Solution, Inc, Midland, TX Solaris Bronco II

Sample Id: **EW5** Matrix: Soil Date Received: 12.03.2020 15:57
 Lab Sample Id: 679758-002 Date Collected: 12.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143897 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.5	9.96	mg/kg	12.04.2020 01:11		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143891 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	12.03.2020 20:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	12.03.2020 20:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	12.03.2020 20:51	U	1
Total TPH	PHC635	<50.30	50.30	mg/kg	12.03.2020 20:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.03.2020 20:51		
o-Terphenyl	84-15-1	108	%	70-135	12.03.2020 20:51		



Certificate of Analytical Results 679758

Etech Environmental & Safety Solution, Inc, Midland, TX Solaris Bronco II

Sample Id: **EW5**
Lab Sample Id: 679758-002

Matrix: Soil
Date Collected: 12.03.2020 00:00

Date Received: 12.03.2020 15:57

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.03.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143889

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.03.2020 22:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.03.2020 22:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.03.2020 22:16	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.03.2020 22:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.03.2020 22:16	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	12.03.2020 22:16	U	1
Total BTEX		<0.001980	0.001980	mg/kg	12.03.2020 22:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.03.2020 22:16		
1,4-Difluorobenzene	540-36-3	103	%	70-130	12.03.2020 22:16		



Certificate of Analytical Results 679758

Etech Environmental & Safety Solution, Inc, Midland, TX Solaris Bronco II

Sample Id: **FL 36 @ 4'** Matrix: Soil Date Received: 12.03.2020 15:57
 Lab Sample Id: 679758-003 Date Collected: 12.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143897 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	737	9.96	mg/kg	12.04.2020 01:17		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143891 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.03.2020 21:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.03.2020 21:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.03.2020 21:11	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	12.03.2020 21:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	12.03.2020 21:11		
o-Terphenyl	84-15-1	115	%	70-135	12.03.2020 21:11		



Certificate of Analytical Results 679758

Etech Environmental & Safety Solution, Inc, Midland, TX Solaris Bronco II

Sample Id: **FL 36 @ 4'** Matrix: Soil Date Received: 12.03.2020 15:57
 Lab Sample Id: 679758-003 Date Collected: 12.03.2020 00:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB
 Analyst: MAB Date Prep: 12.03.2020 17:00 % Moisture:
 Seq Number: 3143889 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.03.2020 22:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.03.2020 22:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.03.2020 22:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.03.2020 22:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.03.2020 22:38	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	12.03.2020 22:38	U	1
Total BTEX		<0.001990	0.001990	mg/kg	12.03.2020 22:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.03.2020 22:38		
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.03.2020 22:38		

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

Solaris Bronco II

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3143897

Matrix: Solid

Prep Method: E300P

Date Prep: 12.03.2020

MB Sample Id: 7716399-1-BLK

LCS Sample Id: 7716399-1-BKS

LCSD Sample Id: 7716399-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	257	103	256	102	90-110	0	20	mg/kg	12.03.2020 22:43	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3143897

Matrix: Soil

Prep Method: E300P

Date Prep: 12.03.2020

Parent Sample Id: 679616-001

MS Sample Id: 679616-001 S

MSD Sample Id: 679616-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	150	202	361	104	358	103	90-110	1	20	mg/kg	12.03.2020 23:01	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3143897

Matrix: Soil

Prep Method: E300P

Date Prep: 12.03.2020

Parent Sample Id: 679764-003

MS Sample Id: 679764-003 S

MSD Sample Id: 679764-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.4	202	230	100	227	99	90-110	1	20	mg/kg	12.04.2020 01:42	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3143891

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.03.2020

MB Sample Id: 7716400-1-BLK

LCS Sample Id: 7716400-1-BKS

LCSD Sample Id: 7716400-1-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	894	89	933	93	70-135	4	35	mg/kg	12.03.2020 19:12	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1150	115	70-135	1	35	mg/kg	12.03.2020 19:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	131		121		115		70-135	%	12.03.2020 19:12
o-Terphenyl	121		109		113		70-135	%	12.03.2020 19:12

Analytical Method: TPH by SW8015 Mod

Seq Number: 3143891

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.03.2020

MB Sample Id: 7716400-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.03.2020 18:53	

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

Solaris Bronco II

Analytical Method: TPH by SW8015 Mod

Seq Number: 3143891

Parent Sample Id: 679758-001

Matrix: Soil

MS Sample Id: 679758-001 S

Prep Method: SW8015P

Date Prep: 12.03.2020

MSD Sample Id: 679758-001 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)	<50.3	1010	1180	117	1100	110	70-135	7	35	mg/kg	12.03.2020 20:12	
Diesel Range Organics (DRO)	<50.3	1010	1090	108	990	99	70-135	10	35	mg/kg	12.03.2020 20:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		114		70-135	%	12.03.2020 20:12
o-Terphenyl	113		107		70-135	%	12.03.2020 20:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143889

MB Sample Id: 7716397-1-BLK

Matrix: Solid

LCS Sample Id: 7716397-1-BKS

Prep Method: SW5035A

Date Prep: 12.03.2020

LCSD Sample Id: 7716397-1-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	0.0986	99	0.0934	93	70-130	5	35	mg/kg	12.03.2020 17:59	
Toluene	<0.00200	0.100	0.0949	95	0.0891	89	70-130	6	35	mg/kg	12.03.2020 17:59	
Ethylbenzene	<0.00200	0.100	0.0878	88	0.0819	82	71-129	7	35	mg/kg	12.03.2020 17:59	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.165	83	70-135	8	35	mg/kg	12.03.2020 17:59	
o-Xylene	<0.00200	0.100	0.0889	89	0.0816	82	71-133	9	35	mg/kg	12.03.2020 17:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		96		93		70-130	%	12.03.2020 17:59
4-Bromofluorobenzene	90		87		80		70-130	%	12.03.2020 17:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143889

Parent Sample Id: 679616-001

Matrix: Soil

MS Sample Id: 679616-001 S

Prep Method: SW5035A

Date Prep: 12.03.2020

MSD Sample Id: 679616-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0883	89	0.0906	91	70-130	3	35	mg/kg	12.03.2020 18:44	
Toluene	<0.00199	0.0996	0.0853	86	0.0868	87	70-130	2	35	mg/kg	12.03.2020 18:44	
Ethylbenzene	<0.00199	0.0996	0.0795	80	0.0798	80	71-129	0	35	mg/kg	12.03.2020 18:44	
m,p-Xylenes	<0.00398	0.199	0.161	81	0.161	81	70-135	0	35	mg/kg	12.03.2020 18:44	
o-Xylene	<0.00199	0.0996	0.0781	78	0.0810	81	71-133	4	35	mg/kg	12.03.2020 18:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		95		70-130	%	12.03.2020 18:44
4-Bromofluorobenzene	84		83		70-130	%	12.03.2020 18:44

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

XENCO**Chain of Custody**Work Order No: 679758

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) 794-1286
 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

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Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris water midstream
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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level II ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		Solaris Bronco II		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Number:		12701		Routine: ☐												HNO3: HN				
Project Location:		Rural Lea County, NM		Rush: ☒												H2SO4: H2				
Sampler's Name:		Miguel Ramirez		Due Date:												HCL: HL				
PO #:																None: NO				
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No		Wet Ice: ☒ Yes ☐ No												NaOH: Na				
Temperature (°C):		1.8 / 1.6		Thermometer ID												MeOH: Me				
Received Intact:		☒ Yes ☐ No		T-NM-007												Zn Acetate+ NaOH: Zn				
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Correction Factor:												TAT starts the day received by the lab, if received by 4:30pm				
Sample Custody Seals:		Yes ☒ No ☐ N/A		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										
SW5		Soil	12-3-20	-	-	1	X	X	X											
EW5		Soil	12-3-20	-	-	1	X	X	X											
FL36241		Soil	12-3-20	-	4'	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 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
<i>Joel Lowry</i>	<i>Chae C. C. C.</i>	12-3-20 1553			

Revised Date 10/14/19 Rev: 2019.1

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: Southwest	
Photo Description: Point of Release	

Photo Number: 2	
Photo Direction: South-Southwest	
Photo Description: Produced Water Release	

Photographic Log

Photo Number: 3	
Photo Direction: East-Southeast	
Photo Description: Produced Water Release	

Photo Number: 4	
Photo Direction: South-Southwest	
Photo Description: Excavation	

Photographic Log

Photo Number: 5	 8/7/20, 9:51 AM +32.222905, -103.443995 NM, Jal
Photo Direction: South	
Photo Description: Excavation	

Photo Number: 6	 8/7/20, 9:51 AM +32.222905, -103.443995 NM, Jal
Photo Direction: East-Southeast	
Photo Description: Excavation	

Photographic Log

Photo Number: 7	
Photo Direction: West	
Photo Description: Excavation	

Photo Number: 8	
Photo Direction: Northwest	
Photo Description: Excavation	

Photographic Log

Photo Number: 9	 Dec 4, 2020 at 12:09:45 PM +32.222518,-103.443970 ±50.00m 305° NW
Photo Direction: Northwest	
Photo Description: Excavation	

Photo Number: 10	 Dec 4, 2020 at 12:10:37 PM +32.222616,-103.444129 ±5.00m 121° SE
Photo Direction: Southeast	
Photo Description: Excavation	

Photographic Log

Photo Number: 11	
Photo Direction: Southwest	
Photo Description: Backfilled Excavation	

Photo Number: 12	
Photo Direction: Southwest	
Photo Description: Backfilled Excavation	

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 14622

CONDITIONS OF APPROVAL

Operator:	SOLARIS WATER MIDSTREAM, LLC	907 Tradewinds Blvd, Suite B	Midland, TX79706	OGRID:	371643	Action Number:	14622	Action Type:	C-141
OCD Reviewer	Condition								
ceads	None								