

Incident ID	nRM1929031912
District RP	
Facility ID	
Application ID	

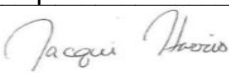
## Closure

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: Jacqui Harris Title: Environmental Coordinator  
Signature:  Date: 5/24/2021  
email: jacqui.harris@conocophillips.com Telephone: (505) 412-1111

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

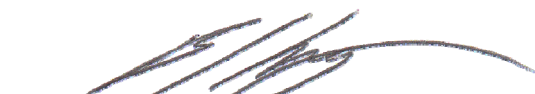

## Remediation Summary & Soil Closure Request

### COG Operating, LLC Sebastian Fed Com #001H

Lea County, New Mexico  
Unit Letter "D", Section 18, Township 24 South, Range 34 East  
Latitude 32.22430 North, Longitude 103.51539 West  
NMOCD Reference No. nRM1929031912

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
3100 Plains Highway  
Lovington, New Mexico 88260

  
\_\_\_\_\_  
Ben J. Arguijo  
\_\_\_\_\_  
Joel W. Lowry

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**1.0 PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Sebastian Fed Com #001H (henceforth, "Site"). Details of the release are summarized below:

**Location of Release Source**

Latitude: 32.2243 Longitude: -103.51539

Provided GPS are in WGS84 format.

Site Name: Sebastian Fed Com #001H	Site Type: Tank Battery
Date Release Discovered: 10/5/2019	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"D"	18	24S	34E	Lea

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

**Nature and Volume of Release**

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 8
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 30	Volume Recovered (bbls) 25
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

**Cause of Release:**

The release was caused by a gasket failing on the man way. The release was on location and in the pasture. During initial response activities, the gasket was replaced, and a vacuum truck was dispatched to remove all free-standing fluids.

**Initial Response**

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

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

## 2.0 SITE CHARACTERIZATION

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

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on July 30, 2020, an investigative soil boring/temporary monitor well (BH-1) was drilled at the Site in an effort to determine if shallow groundwater is present in the area. The investigative soil bore was advanced to a total depth of approximately 55 feet below ground surface (bgs) and left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil bore or prior to plugging and abandonment. The location of the soil bore is depicted in Figure 2. A drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?	>55'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>55'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

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

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

## 4.0 INITIAL SITE ASSESSMENT

On January 5, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (EFS2, EFS3, P1 through P4, and RS1) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores (EFS1 and FS9) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 12 delineation soil samples (P1 @ Surface, P3 @ Surface, P3 @ 1', P4 @ Surface, P4 @ 1', RS1 @ Surface, RS1 @ 1', EFS1 @ Surface, EFS2 @ Surface, EFS2 @ 1', EFS3 @ Surface, and FS9 @ Surface) were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, additional delineation of the release was required.

On December 4, 2019, Etech revisited the Site. During the site visit, three (3) additional hand-augered soil bores (V1, V2, and V3) were advanced within the release margins to further investigate the vertical extent of impacted soil. In addition, four (4) hand-augered soil bores (NH, EH, SH, and WH) were advanced at the inferred edges of the affected area to further investigate the horizontal extent of impacted soil. Based on field observations and field test data, a total of 15 delineation soil samples (V1 @ 1', V1 @ 2', V2 @ 1', V2 @ 2', V2 @ 3', V3 @ 1', V3 @ 2', NH @ Surface, NH @ 4', EH @ Surface, EH @ 4', SH @ Surface, SH @ 4', WH @ Surface, and WH @ 4') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond two (2) feet bgs, and the vertical and horizontal extent of impacted soil was adequately defined.

## 5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, COG Operating, LLC, proposed the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the pasture in the areas characterized by sample points EFS2 and RS1 and on the production pad in the areas characterized by sample points P1, P3, P4 and V2. Advance the floor and sidewalls of the excavated area until laboratory analytical results indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- Excavate impacted soil affected above the NMOCD Reclamation Standard present within the uppermost four (4) feet of the pasture in the areas characterized by sample points EFS2, EFS3, and V3. Advance the floor and sidewalls of the excavated area until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride are below the NMOCD Reclamation Standard.
- Haul all of the excavated material to an NMOCD-approved surface waste disposal facility.
- Once the excavation is complete, collect representative 5-point composite soil samples every 500 square feet from the bottom and sidewalls of the excavated areas to be laboratory analyzed for the constituents of concern. Collect discrete soil samples from any “hot spots” encountered during the excavation.
- Backfill the excavation with clean “like” material and contour it to match the surrounding terrain.

## 6.0 REGULATORY APPROVALS & STIPULATIONS

On September 15, 2020, a *Work Plan* was submitted to the NMOCD proposing remediation activities designed to advance the Site toward regulatory closure. The *Work Plan* was subsequently approved by the NMOCD.

Please reference the *Work Plan* for additional details regarding site characterization and proposed remediation activities.

## 7.0 REMEDIATION ACTIVITIES SUMMARY

On May 7, 2020, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the provisional 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. Olfactory/visual senses and a Hach Quantab® chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field observations and field test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard. To facilitate remediation activities, the excavation was divided into six (6) subsections: A through F.

On May 20, 2020, remediation activities were temporarily suspended, pending the advancement of an investigative soil boring/temporary monitor well and approval of the proposed work plan and Closure Criteria by the NMOCD.

On March 24, 2021, upon approval of the *Work Plan* by the NMOCD, remediation activities resumed at the Site. Etech collected 64 confirmation soil samples (A NW, A SW, A FL1 @ 1', B NW, B SW, B WW, B FL @ 2', B FL2 @ 2', B FL3 @ 2', C NW, C SW, C FL @ 2.5', D NW, D EW1, D EW2, D SW, D WW1, D WW2, D FL1 @ 6" through D FL7 @ 6", E NW, E EW, E WW, E FL1 @ 6" through E FL7 @ 6", F EW1, F SW1, F SW2, F WW1, F WW2, F WW3, and F FL1 @ 6" through F FL23 @ 6") from the sidewalls and floors of the excavated areas. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples. GRO+DRO concentrations exceeded the NMOCD Closure Criteria in soil samples B WW, C NW, D WW2, D FL4 @ 6", F SW2, F FL7 @ 6", F FL11 @ 6", F FL12 @ 6", F FL14 @ 6", F FL15 @ 6", F FL16 @ 6", F FL18 @ 6", F FL19 @ 6", and F FL22 @ 6". TPH concentrations exceeded the NMOCD Closure Criteria in soil samples B WW, C NW, D WW2, F SW2, F FL11 @ 6", F FL12 @ 6", F FL15 @ 6", F FL16 @ 6", F FL19 @ 6", and F FL22 @ 6".

Etech also advanced two (2) additional hand-augered soil bores (SWH B and WH1) at the inferred edges of the affected area to further investigate the horizontal extent of impacted soil. A soil sample from each soil bore was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples.

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples B SW, B WW, B FL2 @ 2', B FL3 @ 2', C NW, C FL @ 2.5', D NW, D EW2, D SW, D WW1, D WW2, D FL4 @ 6", D FL5 @ 6", D FL6 @ 6", E EW, E WW, E FL2 @ 6", E FL4 @ 6", F EW1, F SW2, F FL7 @ 6", F FL11 @ 6", F FL12 @ 6", F FL14 @ 6" through F FL16 @ 6", F FL18 @ 6", F FL19 @ 6", and F FL22 @ 6".

On April 27, 2021, Etech collected 27 confirmation soil samples (B SWB @ 1', B WWB, B FL2B @ 2', B FL3B @ 2', C NWB, C FL5B @ 3', D NWB, D EW2B, D SWB, D WW1B, D WW2B, D FL4B @ 0-6", D FL5B @ 1', D FL6B @ 1', FL2B @ 6", FL4B @ 6", F EW1B, F SW2B, F FL7B 0-6", F FL11B 0-6", F FL12B 0-6", F FL14B 0-6" through F FL16B 0-6", F FL18B 0-6", F FL19B 0-6", and F FL22B 0-6") from the sidewalls and floors of the excavated areas. The soil samples were submitted to the laboratory for analysis of TPH and chloride. Laboratory analytical results indicated GRO+DRO concentrations exceeded the NMOCD Closure Criteria in soil samples F FL7B 0-6", F FL11B 0-6", F FL12B 0-6", and F FL16B 0-6". TPH concentrations exceeded the NMOCD Closure Criteria in soil samples F FL12B 0-6" and F FL16B 0-6". Chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples D EW2B, F FL7B 0-6", F FL11B 0-6", F FL12B 0-6", and F FL16B 0-6".

On May 3, 2021, Etech collected seven (7) confirmation soil samples (D EW2C, E EWB, E WWB, F FL7C @ 6"-9", F FL11C @ 6"-9", F FL12C @ 1', and F FL16C @ 1') from the sidewalls and floors of the excavated areas. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples.

The final dimensions of the excavated areas were approximately 10 to 238 feet in length, 10 to 125 feet in width, and six (6) inches to three (3) feet in depth. During the course of remediation activities, approximately 256 cubic yards of impacted soil was transported to an NMOCD-approved surface waste facility for disposal.

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

## **8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

Areas affected by remediation and closure activities were substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured 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 during the first favorable growing season following closure of the Site.

## **9.0 SOIL CLOSURE REQUEST**

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

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

## **10.0 LIMITATIONS**

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

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

## **11.0      DISTRIBUTION**

***COG Operating, LLC***

*600 West Illinois Avenue*

*Midland, TX 79701*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1*

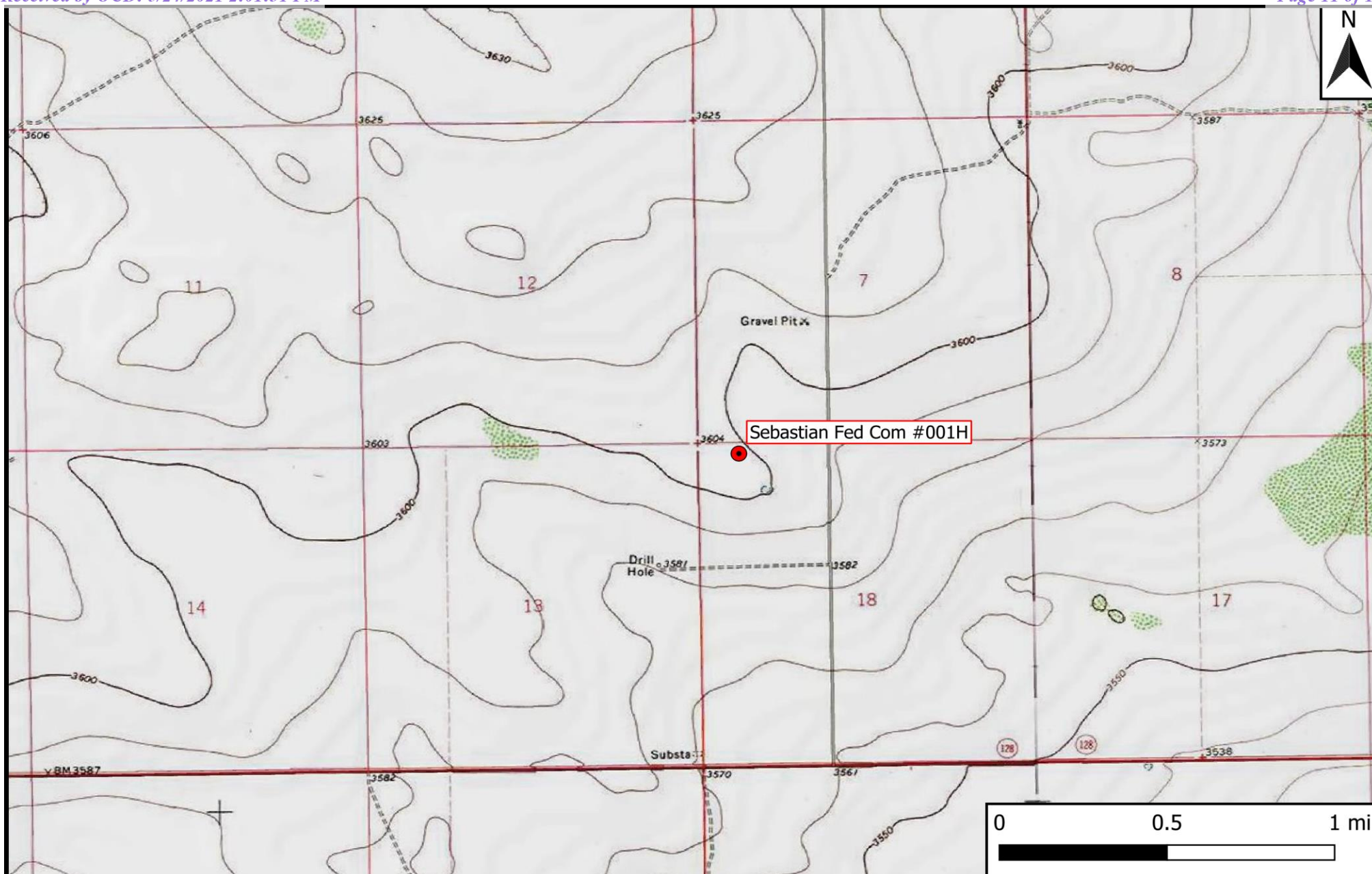
*1220 South St. Francis Drive*

*Santa Fe, NM 87505*

(Electronic Submission)

# **Figure 1**

## **Topographic Map**



## Legend

- Site Location

## Figure 1

Topographic Map  
 COG Operating, LLC  
 Sebastian Fed Com #001H  
 GPS: 32.2243, -103.51539  
 Lea County

**eTECH**  
 Environmental & Safety Solutions, Inc.

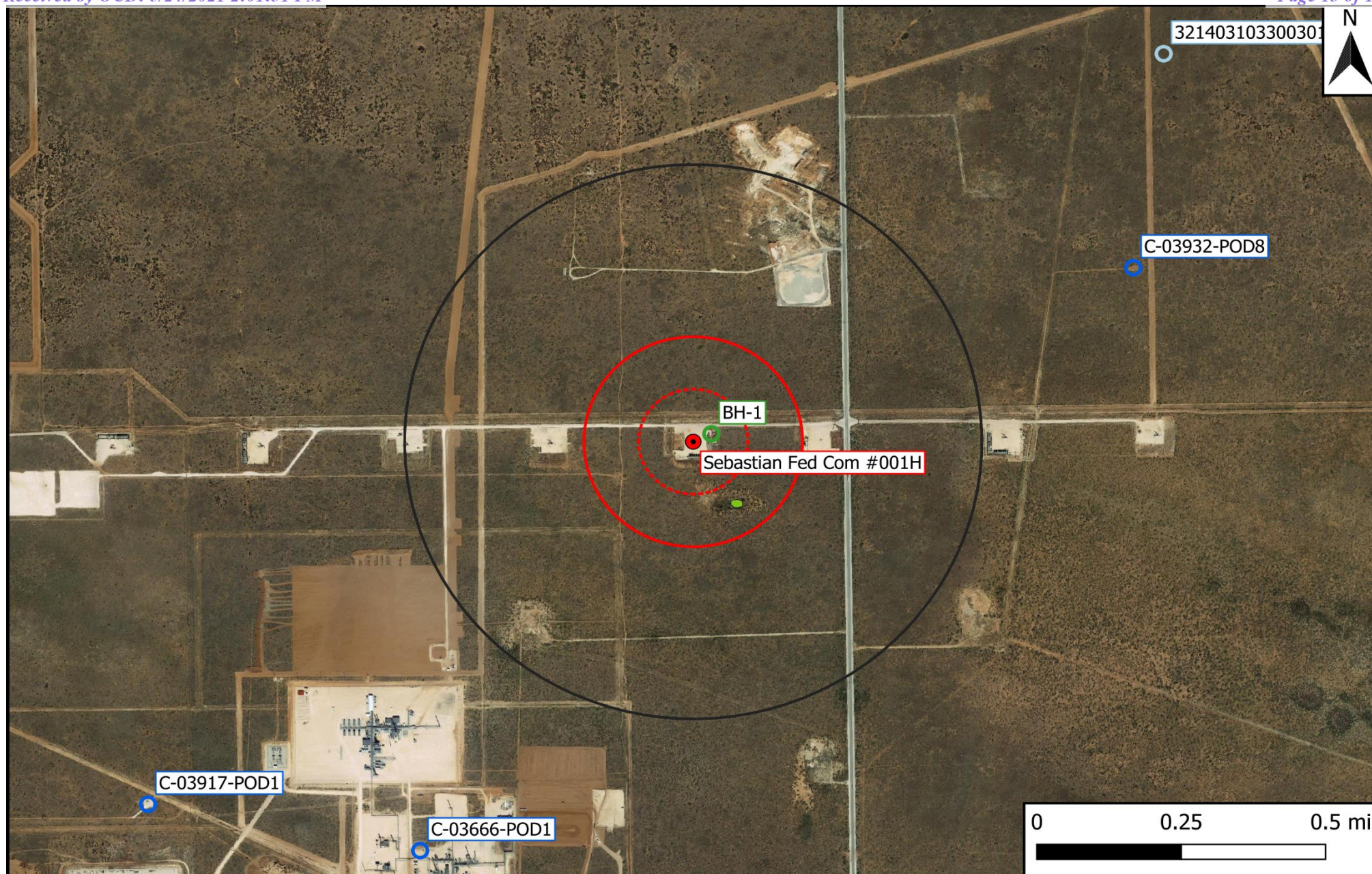
Drafted: bja

Checked: jwl

Date: 5/11/21

## **Figure 2**

### **Aerial Proximity Map**



## Legend

- |   |  |  |
|---|--|--|
| <span style="color: red;">●</span> Site Location  | <span style="background-color: lightblue; border: 1px solid blue;"> </span> 1% Annual Flood Chance       | <span style="border: 2px dashed red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span> 500-Ft Radius  |
| <span style="color: green; border: 1px solid green; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> Well - Investigative/Monitor | <span style="background-color: lightgreen; border: 1px solid green;"> </span> Emergent/Forested Wetlands | <span style="border: 2px solid red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span> 1,000-Ft Radius |
| <span style="color: blue; border: 1px solid blue; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> Well - NMOSE                   | <span style="background-color: lightblue; border: 1px solid blue;"> </span> Freshwater Pond/Lake         | <span style="border: 2px solid black; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span> 0.5-Mi Radius |
| <span style="color: lightblue; border: 1px solid lightblue; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> Well - USGS          | <span style="background-color: orange; border: 1px solid orange;"> </span> Medium/High Karst             |  |
| <span style="color: brown; border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Potash Mine Workings                                    | <span style="background-color: lightblue; border: 1px solid blue;"> </span> Riverine                     |  |

## Figure 2

Aerial Proximity Map  
 COG Operating, LLC  
 Sebastian Fed Com #001H  
 GPS: 32.2243, -103.51539  
 Lea County



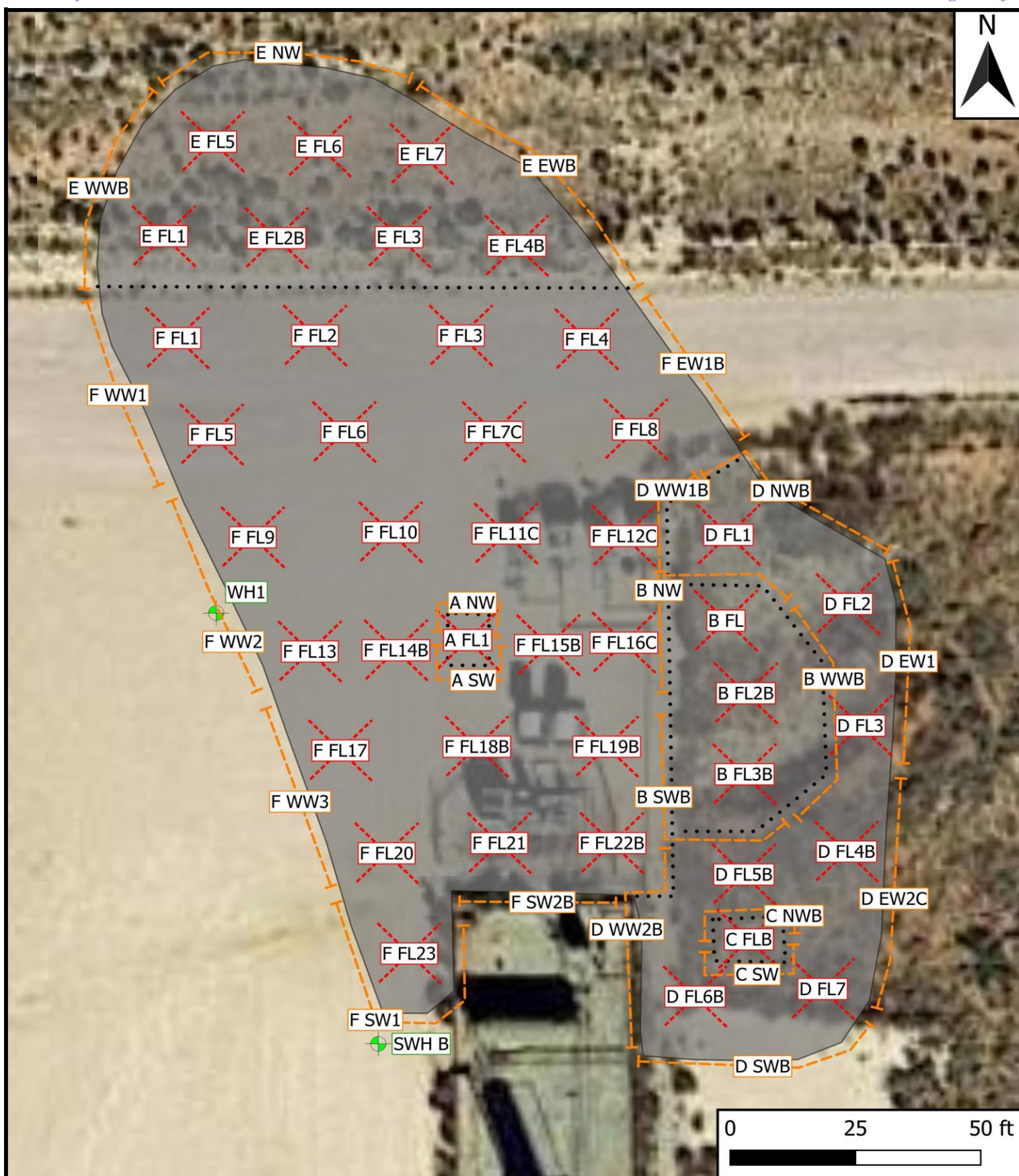
Drafted: bja

Checked: jwl






Date: 5/11/21

## **Figure 3**

### **Site & Sample Location Map**



### Legend

-  Point Sample      Wall Sample  
 Floor Sample      Section Divider  
                                   Excavation Area

### Figure 3

Site & Sample Location Map  
COG Operating, LLC  
Sebastian Fed Com #001H  
GPS: 32.2243, -103.51539  
Lea County

**eTECH**   
**Environmental & Safety Solutions, Inc.**

Drafted: mag

Checked:

Date: 5/11/21

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**COG Operating, LLC**  
**Sebastian Fed Com #001H**  
**NMOCD Ref. #: nRM1929031912**

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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Samples											
EFS1 @ Surface	11/15/2019	Surface	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
EFS2 @ Surface	11/15/2019	Surface	Excavated	<0.050	<0.300	<10.0	4,130	4,130	902	5,030	1,390
EFS2 @ 1'	11/15/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
EFS3 @ Surface	11/15/2019	Surface	Excavated	<0.050	<0.300	<10.0	218	218	43.8	262	608
FS9 @ Surface	11/15/2019	Surface	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
P1 @ Surface	11/15/2019	Surface	Excavated	<0.050	<0.300	<10.0	5,310	5,310	1,160	6,470	608
P3 @ Surface	11/15/2019	Surface	Excavated	<0.050	<0.300	<10.0	4,610	4,610	1,260	5,870	1,340
P3 @ 1'	11/15/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
P4 @ Surface	11/15/2019	Surface	Excavated	<0.050	3.03	241	21,200	21,400	4,840	26,300	1,170
P4 @ 1'	11/15/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
RS1 @ Surface	11/15/2019	Surface	Excavated	<0.050	<0.300	<10.0	1,150	1,150	251	1,400	880
RS1 @ 1'	11/15/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
NH @ Surface	12/4/2019	Surface	In-Situ	<0.050	<0.300	<10.0	41.5	41.5	<10.0	41.5	48.0
NH @ 4'	12/4/2019	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH @ Surface	12/4/2019	Surface	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
EH @ 4'	12/4/2019	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SH @ Surface	12/4/2019	Surface	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SH @ 4'	12/4/2019	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SWH B	3/24/2021	6"	In-Situ	-	-	-	-	-	-	-	256
WH @ Surface	12/4/2019	Surface	In-Situ	<0.050	<0.300	<10.0	39.1	39.1	11.9	51.0	240
WH @ 4'	12/4/2019	4'	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	192
WH1	3/24/2021	6"	In-Situ	-	-	-	-	-	-	-	112
V1 @ 1'	12/4/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
V1 @ 2'	12/4/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
V2 @ 1'	12/4/2019	1'	Excavated	<0.050	1.10	146	12,800	12,900	2,560	15,500	112
V2 @ 2'	12/4/2019	2'	In-Situ	<0.050	<0.300	<10.0	158	158	32.9	191	32.0
V2 @ 3'	12/4/2019	3'	In-Situ	<0.050	<0.300	<10.0	720	720	127	847	32.0
V3 @ 1'	12/4/2019	1'	Excavated	<0.050	<0.300	<10.0	95.1	95.1	20.3	115	160
V3 @ 2'	12/4/2019	2'	In-Situ	<0.050	<0.300	<10.0	36.7	36.7	<10.0	36.7	224
Excavation Samples											
A NW	3/24/2021	0'-1'	In-Situ	<0.050	<0.300	<10.0	16.1	16.1	<10.0	16.1	16.0
A SW	3/24/2021	0'-1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
A FL1 @ 1'	3/24/2021	1'	In-Situ	<0.050	<0.300	<10.0	12.8	12.8	<10.0	12.8	32.0
B NW	3/24/2021	0'-2'	In-Situ	<0.050	<0.300	<10.0	31.2	31.2	13.5	44.7	32.0
B SW	3/24/2021	0'-2'	Excavated	<0.050	<0.300	<10.0	648	648	227	875	48.0
B SWB @ 1'	4/27/2021	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
B WW	3/24/2021	0'-2'	Excavated	<0.050	<0.300	<10.0	2,590	2,590	721	3,310	48.0
B WWB	4/27/2021	0'-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
B FL @ 2'	3/24/2021	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
B FL2 @ 2'	3/24/2021	2'	Excavated	<0.050	<0.300	<10.0	676	676	169	845	16.0

**NOTES:**

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**COG Operating, LLC**  
**Sebastian Fed Com #001H**  
**NMOCD Ref. #: nRM1929031912**

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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
B FL2B @ 2'	4/27/2021	2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
B FL3 @ 2'	3/24/2021	2'	Excavated	<0.050	<0.300	<10.0	141	141	71.2	212	48.0
B FL3B @ 2'	4/27/2021	2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
C NW	3/24/2021	0'-3'	Excavated	<0.050	<0.300	<10.0	2,710	<b>2,710</b>	642	<b>3,350</b>	784
C NWB	4/27/2021	0'-3'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
C SW	3/24/2021	0'-3'	In-Situ	<0.050	<0.300	<10.0	28.2	28.2	<10.0	28.2	16.0
C FL @ 2.5'	3/24/2021	2.5'	Excavated	<0.050	<0.300	<10.0	913	913	152	1,070	176
C FL5B @ 3'	4/27/2021	3'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
D NW	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	182	182	58.6	241	80.0
D NWB	4/27/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
D EW1	3/24/2021	0"-6"	In-Situ	<0.050	<0.300	<10.0	73.8	73.8	21.2	95.0	32.0
D EW2	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	758	758	225	983	80.0
D EW2B	4/27/2021	0"-6"	Excavated	-	-	<10.0	86.4	86.4	46.7	133	48.0
D EW2C	5/3/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
D SW	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	485	485	216	701	96.0
D SWB	4/27/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	128
D WW1	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	222	222	66.5	289	112
D WW1B	4/27/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
D WW2	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	3,170	<b>3,170</b>	690	<b>3,860</b>	912
D WW2B	4/27/2021	0'-1'	In-Situ	-	-	<10.0	13.2	13.2	<10.0	13.2	1,500
D FL1 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	66.4	66.4	21.2	87.6	48.0
D FL2 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	49.8	49.8	13.8	63.6	64.0
D FL3 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
D FL4 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	1,410	<b>1,410</b>	407	1,820	144
D FL4B @ 0-6"	4/27/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
D FL5 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	133	133	31.0	164	64.0
D FL5B @ 1'	4/27/2021	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
D FL6 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	324	324	107	431	144
D FL6B @ 1'	4/27/2021	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
D FL7 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	13.5	13.5	<10.0	13.5	16.0
E NW	3/24/2021	0"-6"	In-Situ	<0.050	<0.300	<10.0	46.0	46.0	14.4	60.4	<16.0
E EW	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	121	121	63.3	184	16.0
E EWB	5/3/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
E WW	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	479	479	220	699	80.0
E WWB	5/3/2021	0"-6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
E FL1 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	52.1	52.1	10.2	62.3	64.0
E FL2 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	205	205	88.0	293	64.0
FL2B @ 6"	4/27/2021	6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
E FL3 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	16.9	16.9	<10.0	16.9	80.0
E FL4 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	97.6	97.6	37.4	135	32.0
FL4B @ 6"	4/27/2021	6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	208

**NOTES:**

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**COG Operating, LLC**  
**Sebastian Fed Com #001H**  
**NMOCD Ref. #: nRM1929031912**

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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
E FL5 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	31.1	31.1	13.5	44.6	16.0
E FL6 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	31.2	31.2	14.5	45.7	<16.0
E FL7 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	26.8	26.8	14.8	41.6	<16.0
F EW1	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	75.2	75.2	40.3	116	208
F EW1B	4/27/2021	0"-6"	In-Situ	-	-	<10.0	40.0	40.0	<10.0	40.0	96.0
F SW1	3/24/2021	0"-6"	In-Situ	<0.050	<0.300	<10.0	93.3	93.3	79.7	173	1,070
F SW2	3/24/2021	0"-6"	Excavated	<0.050	<0.300	<10.0	4,770	<b>4,770</b>	1,130	<b>5,900</b>	7,520
F SW2B	4/27/2021	0"-6"	In-Situ	-	-	<10.0	138	138	83.3	221	608
F WW1	3/24/2021	0"-6"	In-Situ	<0.050	<0.300	<10.0	716	716	347	1,060	144
F WW2	3/24/2021	0"-6"	In-Situ	<0.050	<0.300	<10.0	226	226	101	327	448
F WW3	3/24/2021	0"-6"	In-Situ	<0.050	<0.300	<10.0	536	536	253	789	432
F FL1 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	49.5	49.5	22.5	72.0	112
F FL2 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	50.0	50.0	21.1	71.1	352
F FL3 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	37.5	37.5	12.5	50.0	80.0
F FL4 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	10.2	10.2	<10.0	10.2	80.0
F FL5 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	131	131	67.2	198	192
F FL6 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	193	193	69.4	262	144
F FL7 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	1,260	<b>1,260</b>	455	1,720	176
F FL7B 0-6"	4/27/2021	0"-6"	Excavated	-	-	<10.0	1,370	<b>1,370</b>	548	1,920	96.0
F FL7C @ 6"-9"	5/3/2021	6"-9"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
F FL8 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	350	350	151	501	128
F FL9 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	218	218	96.1	314	144
F FL10 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	475	475	174	649	192
F FL11 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	2,980	<b>2,980</b>	1,000	<b>3,980</b>	256
F FL11B 0-6"	4/27/2021	0"-6"	Excavated	-	-	<10.0	1,650	<b>1,650</b>	692	2,340	64.0
F FL11C @ 6"-9"	5/3/2021	6"-9"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
F FL12 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	2,390	<b>2,390</b>	942	<b>3,330</b>	160
F FL12B 0-6"	4/27/2021	0"-6"	Excavated	-	-	<10.0	7,050	<b>7,050</b>	2,070	<b>9,120</b>	608
F FL12C @ 1'	5/3/2021	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
F FL13 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	99.6	99.6	56.7	156	176
F FL14 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	1,330	<b>1,330</b>	551	1,880	128
F FL14B 0-6"	4/27/2021	0"-6"	In-Situ	-	-	<10.0	78.5	78.5	31.1	110	624
F FL15 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	4,620	<b>4,620</b>	1,610	<b>6,230</b>	320
F FL15B 0-6"	4/27/2021	0"-6"	In-Situ	-	-	<10.0	651	651	218	869	176
F FL16 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	3,650	<b>3,650</b>	1,230	<b>4,880</b>	208
F FL16B 0-6"	4/27/2021	0"-6"	Excavated	-	-	<10.0	2,580	<b>2,580</b>	939	<b>3,520</b>	64.0
F FL16C @ 1'	5/3/2021	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
F FL17 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	367	367	178	545	512
F FL18 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	1,500	<b>1,500</b>	972	2,470	688
F FL18B 0-6"	4/27/2021	0"-6"	In-Situ	-	-	<10.0	531	531	230	761	560
F FL19 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	2,300	<b>2,300</b>	739	<b>3,040</b>	320

**NOTES:**

- = Sample not analyzed for that constituent.

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>COG Operating, LLC</b> <b>Sebastian Fed Com #001H</b> <b>NMOCD Ref. #: nRM1929031912</b>											
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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
F FL19B 0-6"	4/27/2021	0"-6"	In-Situ	-	-	<10.0	351	351	127	478	64.0
F FL20 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	79.3	79.3	36.8	116	2,280
F FL21 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,680
F FL22 @ 6"	3/24/2021	6"	Excavated	<0.050	<0.300	<10.0	2,900	<b>2,900</b>	954	<b>3,850</b>	1,440
F FL22B 0-6"	4/27/2021	0"-6"	In-Situ	-	-	<10.0	684	684	1,170	1,850	560
F FL23 @ 6"	3/24/2021	6"	In-Situ	<0.050	<0.300	<10.0	63.0	63.0	33.7	96.7	752

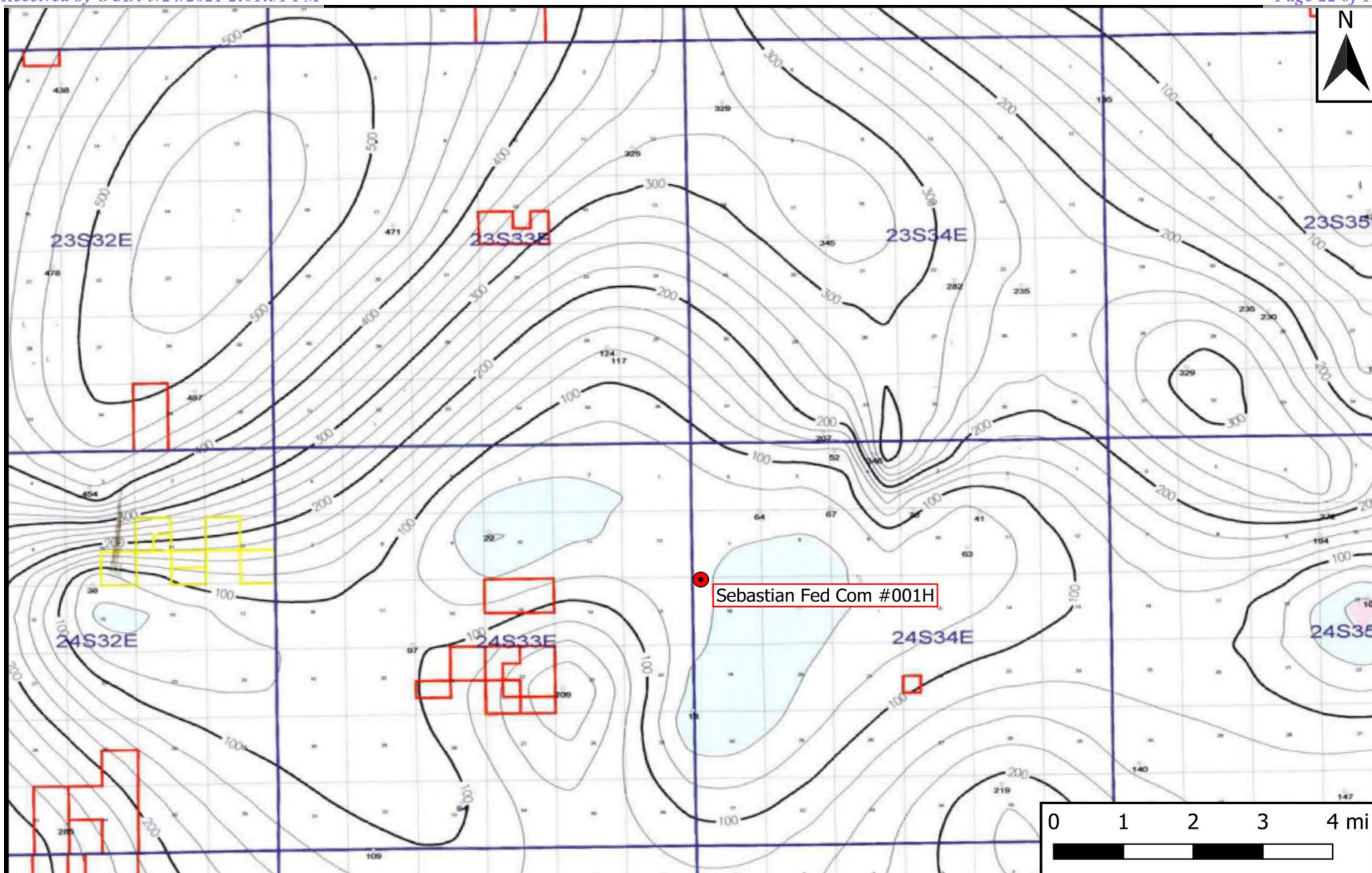
**NOTES:**

- = Sample not analyzed for that constituent.

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

● Site Location

Figure 4

Inferred Depth to Groundwater Trend Map  
 COG Operating, LLC  
 Sebastian Fed Com #001H  
 GPS: 32.2243, -103.51539  
 Lea County

**ETECH**  
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 5/11/21



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 03932 POD8</a>	CUB	LE		4	2	4	07	24S	34E	641120	3566769	1326	72		
<a href="#">C 03666 POD1</a>	C	LE		2	3	4	13	24S	33E	639132	3565078	1409	650	390	260
<a href="#">C 03917 POD1</a>	C	LE		4	1	3	13	24S	33E	638374	3565212	1848	600	420	180

Average Depth to Water: **405 feet**

Minimum Depth: **390 feet**

Maximum Depth: **420 feet**

Record Count: 3

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 639893.7

**Northing (Y):** 3566264.67

**Radius:** 2011.7

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.

5/11/21 11:42 AM

Page 1 of 1


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	03932 POD8	4	2	4	07	24S	34E	641120	3566769 

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

**Driller Name:** LEE PETERSON

**Drill Start Date:** 02/08/2016

**Drill Finish Date:** 02/09/2016

**Plug Date:**

**Log File Date:** 03/01/2016

**PCW Rcv Date:**

**Source:**

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:**

**Depth Well:** 72 feet

**Depth Water:**

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.

5/11/21 11:43 AM

Page 1 of 1

POD SUMMARY - C 03932 POD8



# 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	03666 POD1	2	3	4	13	24S	33E	639132	3565078

<b>Driller License:</b>	1058	<b>Driller Company:</b>	KEY'S DRILLING & PUMP SERVICE	
<b>Driller Name:</b>	CASEY KEYS			
<b>Drill Start Date:</b>	10/18/2013	<b>Drill Finish Date:</b>	10/26/2013	<b>Plug Date:</b>
<b>Log File Date:</b>	11/14/2013	<b>PCW Rcv Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b> 38 GPM
<b>Casing Size:</b>	8.00	<b>Depth Well:</b>	650 feet	<b>Depth Water:</b> 390 feet

Water Bearing Stratifications:	Top	Bottom	Description
	460	465	Sandstone/Gravel/Conglomerate
	490	535	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	485	650

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.

5/11/21 11:43 AM

Page 1 of 1


POD SUMMARY - C 03666 POD1



# 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
NA	C 03917 POD1	4	1	3	13	24S	33E	638374	3565212 

<b>Driller License:</b> 1058	<b>Driller Company:</b> KEY'S DRILLING & PUMP SERVICE
<b>Driller Name:</b> CASE KEY	
<b>Drill Start Date:</b> 03/01/2016	<b>Drill Finish Date:</b> 03/04/2016
<b>Log File Date:</b> 03/11/2016	<b>PCW Rcv Date:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>
<b>Casing Size:</b> 6.00	<b>Depth Well:</b> 600 feet
	<b>Plug Date:</b>
	<b>Source:</b> Shallow
	<b>Estimated Yield:</b> 30 GPM
	<b>Depth Water:</b> 420 feet

Water Bearing Stratifications:	Top	Bottom	Description
	520	600	Sandstone/Gravel/Conglomerate

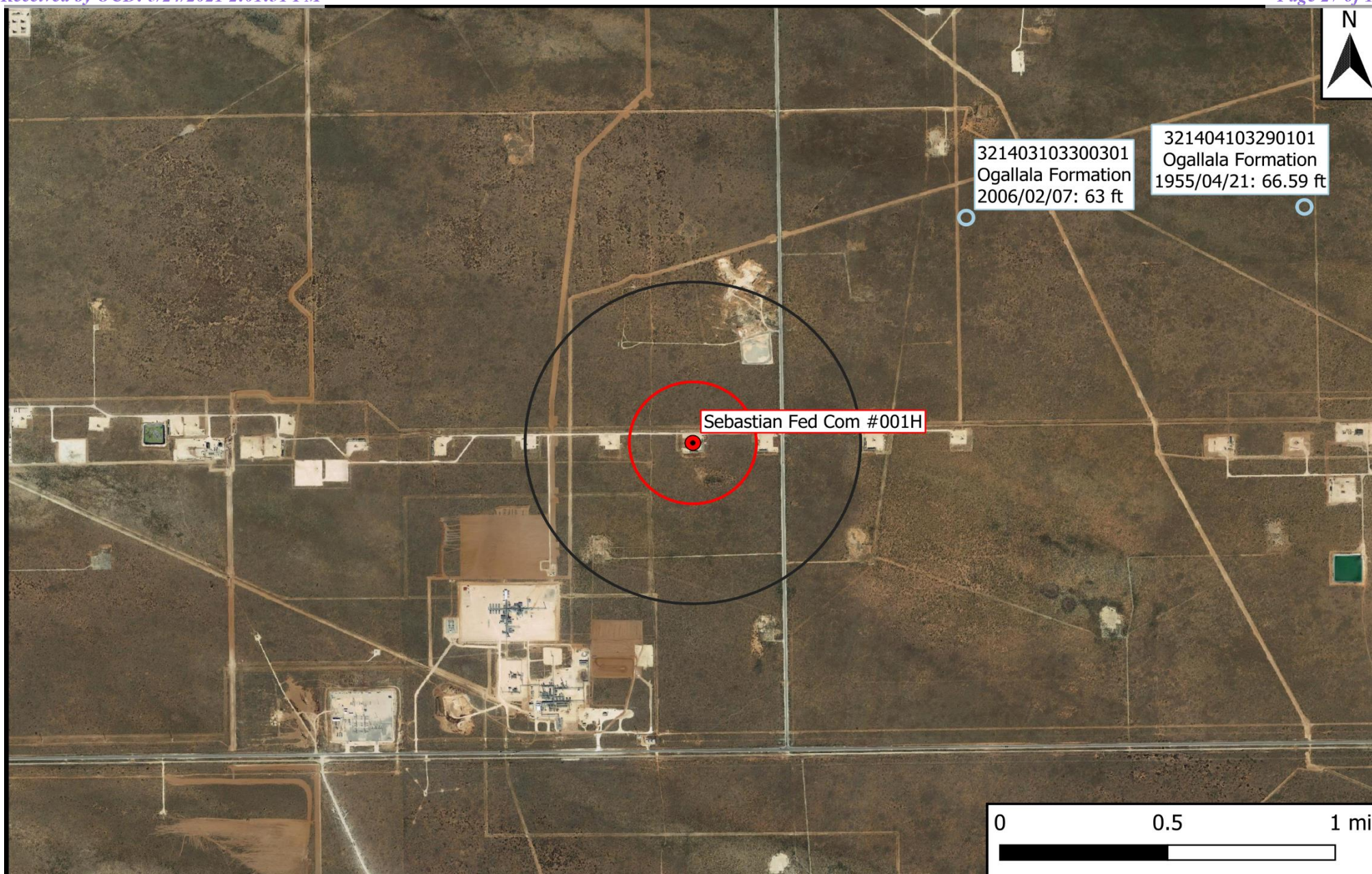
Casing Perforations:	Top	Bottom
	300	600

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.

5/11/21 11:44 AM

Page 1 of 1

POD SUMMARY - C 03917 POD1

**Legend**

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

**Figure 5**

USGS Well Proximity Map  
COG Operating, LLC  
Sebastian Fed Com #001H  
GPS: 32.2243, -103.51539  
Lea County



Drafted: bja

Checked: jwl

Date: 5/13/21



USGS Home  
Contact USGS  
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## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click for News Bulletins

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321403103300301

Minimum number of levels = 1

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

### USGS 321403103300301 24S.34E.07.22222

Lea County, New Mexico

Latitude 32°14'03", Longitude 103°30'03" NAD27

Land-surface elevation 3,606 feet above NAVD88

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

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1970-12-08			D	72019	72.19			3	Z		A
1976-01-16			D	72019	85.84			1	Z		A
1981-03-19			D	72019	82.95			1	Z		A
1986-03-06			D	72019	79.31			1	Z		A
1991-05-30			D	72019	74.56			1	Z		A
1996-03-13			D	72019	64.12			1	S		A
2001-02-28			D	72019	63.38			1	S		A
2006-02-07	15:40 UTC	m	72019	63.00				1	S	USGS	S A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**

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

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

Page Last Modified: 2021-05-11 13:46:57 EDT

0.29 0.24 nadww02





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## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click for News Bulletins

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321404103290101

Minimum number of levels = 1

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

### USGS 321404103290101 24S.34E.04.33333

Lea County, New Mexico

Latitude 32°14'04", Longitude 103°29'01" NAD27

Land-surface elevation 3,571 feet above NAVD88

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

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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

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**Title: Groundwater for USA: Water Levels**

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

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

Page Last Modified: 2021-05-11 13:50:19 EDT

0.29 0.25 nadww02



## **Appendix B**

### **Field Data & Soil Profile Logs**

## Sample Log

Date: \_\_\_\_\_

Project: Sebatian Fed Com #001 HProject Number: 11378 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Sample ID	PID/Odor	Chloride Conc.	GPS
FL4B@6"	none	368	
FL2B@6"	none	196	
FEWB	none	224	
DSWB	none	328	
DFL6B@1'	none	120	
CNW13	none	120	
CFLB@3'	none	168	
DFL5B@1'	none	144	
BSWB	none	328	
BF2B@2'	none	>120	
BFL2B@2'	none	196	
DFL4B@0-6"	none	>120	
BWWB	none	>120	
DEW2B	none	168	
DWW1B	none	120	
DWWB	none	>120	
DWW2B	none	1520	
FSW2B	light	728	
FFL16B@0-6"	light	120	
FFL19B@0-6"	none	>120	
FFL22B@0-6"	none	728	
FFL15B@0-6"	none	256	
FFL18B@0-6"	light	692	
FFL14B@0-6"	none	792	
FFL12B@0-6"	light	792	
FFL7B@0-6"	none	340	
FFL11B@0-6"	none	212	
5/3/21			
FFL12@1'	none	212	
DEW2C	none	184	
FFL16@1'	none	156	
FL11C@6"-9"	none	500	
FL7C@6"-9"	none	500	
EWWB	none	156	
EEWB	none	132	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R


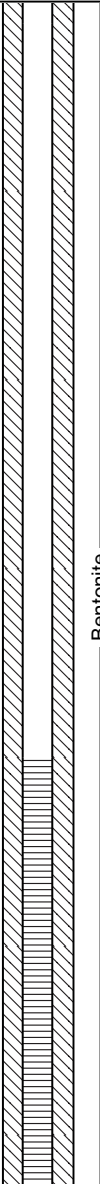









Soil Intended to be Deferred = SP #1 @ 4' In-Situ

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

# Soil Boring/Temporary Monitor Well BH-1

Company: COG Operating, LLC Site: Sebastian Fed Com #001H NMOCD Reference #: nRM1929031912 Location: Lea Co., NM PLSS: UL "D" (NW/NW), Sec. 18, T24S, R34E			Well/Borehole ID: BH-1 Coordinates (NAD 83): 32.22450,-103.51485 Drilling Date: 7/30/2020 Depth of Boring (ft): 55 Depth to Groundwater (ft): >55 Plugging Date: 8/3/2020			Drilling Company: Scarborough Drilling, Inc. Driller: L. Scarborough Drilling Method: Air Rotary Logged By: L. Scarborough Drafted By: B. Arguijo Draft Date: 5/11/2021		
Completion: N/A			Casing: N/A			Screen: N/A		
Comments: N/A								
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab	PID	Well Construction	
5			Caliche Pad	-	-	-		Bentonite
10			Topsoil	-	-	-		
15			Caliche	-	-	-		
20				-	-	-		
25			Loose Sand	-	-	-		
30				-	-	-		
35				-	-	-		
40				-	-	-		
45				-	-	-		
50				-	-	-		
55			Notes: Lines between material types represent approximate boundaries. Actual transitions may be gradual.	-	-	-		

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

## **Appendix C**

### **Laboratory Analytical Reports**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 20, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SEBASTION FED COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 15:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	11/15/2019	Sampling Date:	11/15/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	SEBASTION FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	COG - RURAL LEA COUNTY		

**Sample ID: P1 @ SURFACE (H903894-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24		
DRO >C10-C28*	5310	10.0	11/19/2019	ND	221	111	200	1.31		
EXT DRO >C28-C36	1160	10.0	11/19/2019	ND						

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 302 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: P3 @ SURFACE (H903894-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24		
DRO >C10-C28*	4610	10.0	11/19/2019	ND	221	111	200	1.31		
EXT DRO >C28-C36	1260	10.0	11/19/2019	ND						

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 289 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	11/15/2019	Sampling Date:	11/15/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	SEBASTION FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	COG - RURAL LEA COUNTY		

**Sample ID: P3 @ 1' (H903894-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: P4 @ SURFACE (H903894-04)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	0.479	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	2.50	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	3.03	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	241	50.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	21200	50.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	4840	50.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 166 % 41-142

Surrogate: 1-Chlorooctadecane 980 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: P4 @ 1' (H903894-05)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 73.3-129

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	221	111	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
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 Fax To: (575) 396-1429

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: RS1 @ SURFACE (H903894-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	11/19/2019	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38	
DRO >C10-C28*	1150	10.0	11/19/2019	ND	211	106	200	7.20	QR-03, QM-07
EXT DRO >C28-C36	251	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 133 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: RS1 @ 1' (H903894-07)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	211	106	200	7.20	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	11/15/2019	Sampling Date:	11/15/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	SEBASTION FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	COG - RURAL LEA COUNTY		

**Sample ID: EFS1 @ SURFACE (H903894-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	211	106	200	7.20	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	11/15/2019	Sampling Date:	11/15/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	SEBASTION FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	COG - RURAL LEA COUNTY		

**Sample ID: EFS2 @ SURFACE (H903894-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/18/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38		
DRO >C10-C28*	4130	10.0	11/19/2019	ND	211	106	200	7.20		
EXT DRO >C28-C36	902	10.0	11/19/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 211 % 37.6-147

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	11/15/2019	Sampling Date:	11/15/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	SEBASTION FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	COG - RURAL LEA COUNTY		

**Sample ID: EFS2 @ 1' (H903894-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	211	106	200	7.20	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	11/15/2019	Sampling Date:	11/15/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	SEBASTION FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	COG - RURAL LEA COUNTY		

**Sample ID: EFS3 @ SURFACE (H903894-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38	
DRO >C10-C28*	218	10.0	11/19/2019	ND	211	106	200	7.20	
EXT DRO >C28-C36	43.8	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 11/15/2019  
 Reported: 11/20/2019  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 11/15/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: FS9 @ SURFACE (H903894-12)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/19/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	222	111	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	211	106	200	7.20	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



## CARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 06, 2019

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SEBASTIAN FED COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 12/04/19 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received:	12/04/2019	Sampling Date:	12/04/2019
Reported:	12/06/2019	Sampling Type:	Soil
Project Name:	SEBASTIAN FED COM #001H	Sampling Condition:	Cool & Intact
Project Number:	11378	Sample Received By:	Jodi Henson
Project Location:	RURAL LEA		

**Sample ID: V1 @ 1' (H904060-01)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46		
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13		
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75		
Total BTX	<0.300	0.300	12/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: V1 @ 2' (H904060-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: V2 @ 1' (H904060-03)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<b>0.148</b>	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<b>0.951</b>	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<b>1.10</b>	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>112</b>	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>146</b>	50.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<b>12800</b>	50.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<b>2560</b>	50.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 148 % 41-142

Surrogate: 1-Chlorooctadecane 532 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: V2 @ 2' (H904060-04)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 193 % 73.3-129

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	158	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	32.9	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: V2 @ 3' (H904060-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	720	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	127	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 135 % 37.6-147

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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: V3 @ 1' (H904060-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	95.1	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	20.3	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: V3 @ 2' (H904060-07)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	36.7	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SH @ SURFACE (H904060-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/05/2019	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NH @ SURFACE (H904060-09)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46		
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13		
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75		
Total BTX	<0.300	0.300	12/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	41.5	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SH @ 4' (H904060-10)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 73.3-129

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/05/2019	ND	400	100	400	7.69	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: EH @ 4' (H904060-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46		
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13		
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75		
Total BTEx	<0.300	0.300	12/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/05/2019	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: WH @ SURFACE (H904060-12)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46	
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50	
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75	
Total BTX	<0.300	0.300	12/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/05/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	39.1	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	11.9	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: EH @ SURFACE (H904060-13)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46		
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13		
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75		
Total BTEX	<0.300	0.300	12/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/05/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: WH @ 4' (H904060-14)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46		
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13		
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75		
Total BTX	<0.300	0.300	12/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/05/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	16.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 12/04/2019  
Reported: 12/06/2019  
Project Name: SEBASTIAN FED COM #001H  
Project Number: 11378  
Project Location: RURAL LEA

Sampling Date: 12/04/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NH @ 4' (H904060-15)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2019	ND	1.94	97.1	2.00	2.46		
Toluene*	<0.050	0.050	12/05/2019	ND	1.87	93.5	2.00	3.50		
Ethylbenzene*	<0.050	0.050	12/05/2019	ND	1.90	95.2	2.00	3.13		
Total Xylenes*	<0.150	0.150	12/05/2019	ND	5.76	95.9	6.00	2.75		
Total BTX	<0.300	0.300	12/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/05/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2019	ND	200	99.8	200	0.430	
DRO >C10-C28*	<10.0	10.0	12/05/2019	ND	197	98.4	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	12/05/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> COG Operating, LLC <b>Project Manager:</b> Daniel Dominguez <b>Address:</b> 3100 Plains Hwy <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> 575-396-2378 <b>Fax #:</b> 575-396-1429 <b>Project #:</b> 11378 <b>Project Owner:</b> COG Operating, LLC <b>Project Name:</b> Sebastian Fed Com #001H <b>Project Location:</b> Rural Lea <b>Sampler Name:</b>				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> COG <b>Attn:</b> CO Sheldon Hitchcock <b>Address:</b> <b>City:</b> <b>State:</b> NM <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>															
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021				
H904060																					
1	U1 @ 1'	G	1	X						X			12-4-19	9:20	X	X	X				
2	U1 @ 2'	G	1	X						X			12-4-19	9:45	X	X	X				
3	U2 @ 1'	G	1	X						X			12-4-19	10:00	X	X	X				
4	U2 @ 2'	G	1	X						X			12-4-19	10:15	X	X	X				
5	U2 @ 3'	G	1	X						X			12-4-19	10:30	X	X	X				
6	U3 @ 1'	G	1	X						X			12-4-19	10:45	X	X	X				
7	U3 @ 2'	G	1	X						X			12-4-19	11:00	X	X	X				
8	SH @ Surface	G	1	X						X			12-4-19	11:15	X	X	X				
9	UH @ Sample	G	1	X						X			12-4-19	11:30	X	X	X				
10	SH @ 4'	G	1	X						X			12-4-19	11:45	X	X	X				

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<b>Relinquished By:</b>  <b>Relinquished By:</b>  <b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 5.12/5.52 #97	<b>Date:</b> 12/4/19 <b>Time:</b> 16:45  <b>Date:</b> <b>Time:</b>	<b>Received By:</b>  <b>Received By:</b>  <b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) 	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b> Email results to daniel@etechenv.com
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





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March 29, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SEBASTION FED COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 03/25/21 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WH1 (H210759-01)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/26/2021	ND	416	104	400	3.77	

**Sample ID: SWH B (H210759-02)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/26/2021	ND	416	104	400	3.77	

**Sample ID: A NW (H210759-03)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2021	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A NW (H210759-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
<b>DRO &gt;C10-C28*</b>	<b>16.1</b>	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					
Surrogate: 1-Chlorooctane	86.9 %	44.3-144							
Surrogate: 1-Chlorooctadecane	82.7 %	42.2-156							

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\*=Accredited Analyte

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A SW (H210759-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A FL 1 @ 1' (H210759-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	12.8	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B WW (H210759-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	2590	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	721	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 150 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B SW (H210759-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.06	103	2.00	6.37	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	6.35	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.94	97.1	2.00	6.56	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.74	95.6	6.00	6.17	
Total BTEx	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	648	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	227	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.4 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B NW (H210759-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595		
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273		
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746		
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19		
Total BTX	<0.300	0.300	03/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	31.2	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	13.5	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.1 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B FL @ 2' (H210759-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595		
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273		
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746		
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19		
Total BTX	<0.300	0.300	03/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.4 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B FL 2 @ 2' (H210759-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	676	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	169	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B FL 3 @ 2' (H210759-11)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	219	109	200	4.08	
DRO >C10-C28*	141	10.0	03/26/2021	ND	226	113	200	3.93	
EXT DRO >C28-C36	71.2	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.5 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C NW (H210759-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	2710	10.0	03/26/2021	ND	216	108	200	2.22	QM-07
EXT DRO >C28-C36	642	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 212 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C SW (H210759-13)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	28.2	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C FL @ 2.5' (H210759-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	913	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	152	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D NW (H210759-15)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/26/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	182	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	58.6	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.7 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D SW (H210759-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	485	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	216	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D EW1 (H210759-17)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	73.8	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	21.2	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.4 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D EW2 (H210759-18)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	758	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	225	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 148 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D WW1 (H210759-19)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	222	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	66.5	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D WW2 (H210759-20)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	03/29/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	3170	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	690	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 219 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 1 @ 6" (H210759-21)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	66.4	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	21.2	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.9 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 2 @ 6" (H210759-22)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	49.8	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	13.8	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.2 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 3 @ 6" (H210759-23)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	<10.0	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 4 @ 6" (H210759-24)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTEx	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	1410	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	407	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 153 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 5 @ 6" (H210759-25)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	133	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	31.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 6 @ 6" (H210759-26)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	324	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	107	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D FL 7 @ 6" (H210759-27)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2021	ND	2.05	103	2.00	0.595	
Toluene*	<0.050	0.050	03/29/2021	ND	2.14	107	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/29/2021	ND	2.11	106	2.00	0.746	
Total Xylenes*	<0.150	0.150	03/29/2021	ND	6.53	109	6.00	1.19	
Total BTX	<0.300	0.300	03/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	13.5	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E NW (H210759-28)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/26/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	46.0	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	14.4	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.2 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E WW (H210759-29)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/26/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.87	97.8	6.00	0.990	
Total BTEx	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	479	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	220	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E EW (H210759-30)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/26/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.87	97.8	6.00	0.990	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	121	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	63.3	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 1 @ 6" (H210759-31)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.13	106	2.00	0.538		
Toluene*	<0.050	0.050	03/26/2021	ND	2.07	103	2.00	0.891		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.99	99.6	2.00	0.816		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.87	97.8	6.00	0.990		
Total BTEX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	221	110	200	2.25	
DRO >C10-C28*	52.1	10.0	03/26/2021	ND	216	108	200	2.22	
EXT DRO >C28-C36	10.2	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 2 @ 6" (H210759-32)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/26/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.87	97.8	6.00	0.990	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	205	10.0	03/26/2021	ND	222	111	200	3.62	QR-03
EXT DRO >C28-C36	88.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 3 @ 6" (H210759-33)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/26/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/29/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	16.9	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.3 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 4 @ 6" (H210759-34)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTEX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	97.6	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	37.4	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 5 @ 6" (H210759-35)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTEX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	31.1	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	13.5	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.2 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 6 @ 6" (H210759-36)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538		
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891		
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816		
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990		
Total BTX	<0.300	0.300	03/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	31.2	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	14.5	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.7 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E FL 7 @ 6" (H210759-37)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTEX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	26.8	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	14.8	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.1 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F WW1 (H210759-38)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	716	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	347	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F WW2 (H210759-39)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	226	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	101	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.6 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F WW3 (H210759-40)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	536	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	253	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 71.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.0 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F SW1 (H210759-41)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTEX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	03/29/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	93.3	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	79.7	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.5 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F SW2 (H210759-42)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	4770	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	1130	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 255 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F EW1 (H210759-43)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	75.2	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	40.3	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.0 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 1 @ 6" (H210759-44)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	49.5	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	22.5	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.4 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 2 @ 6" (H210759-45)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	50.0	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	21.1	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 67.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 66.4 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 3 @ 6" (H210759-46)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	37.5	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	12.5	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.0 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 4 @ 6" (H210759-47)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.13	106	2.00	0.538	
Toluene*	<0.050	0.050	03/27/2021	ND	2.07	103	2.00	0.891	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	1.99	99.6	2.00	0.816	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.87	97.8	6.00	0.990	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	10.2	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 67.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 63.4 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 5 @ 6" (H210759-48)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	131	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	67.2	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.0 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 6 @ 6" (H210759-49)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	193	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	69.4	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 58.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 61.6 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 7 @ 6" (H210759-50)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	1260	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	455	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 8 @ 6" (H210759-51)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	231	116	200	3.39	
DRO >C10-C28*	350	10.0	03/26/2021	ND	222	111	200	3.62	
EXT DRO >C28-C36	151	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 9 @ 6" (H210759-52)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	QM-07, QR-03
DRO >C10-C28*	218	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	96.1	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.2 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 10 @ 6" (H210759-53)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	
DRO >C10-C28*	475	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	174	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.1 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 11 @ 6" (H210759-54)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	
DRO >C10-C28*	2980	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	1000	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 184 % 42.2-156

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 12 @ 6" (H210759-55)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/29/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	
DRO >C10-C28*	2390	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	942	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 155 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 13 @ 6" (H210759-56)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/29/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	
DRO >C10-C28*	99.6	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	56.7	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.8 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 14 @ 6" (H210759-57)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTEX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	
DRO >C10-C28*	1330	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	551	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 64.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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**Analytical Results For:**

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Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 15 @ 6" (H210759-58)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22		
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64		
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35		
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96		
Total BTEX	<0.300	0.300	03/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23		
DRO >C10-C28*	4620	10.0	03/26/2021	ND	241	121	200	3.87		
EXT DRO >C28-C36	1610	10.0	03/26/2021	ND						

Surrogate: 1-Chlorooctane 79.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 245 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 16 @ 6" (H210759-59)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/29/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2021	ND	230	115	200	2.23	
DRO >C10-C28*	3650	10.0	03/26/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	1230	10.0	03/26/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 192 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 17 @ 6" (H210759-60)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2021	ND	2.07	104	2.00	7.22	
Toluene*	<0.050	0.050	03/26/2021	ND	2.01	101	2.00	7.64	
Ethylbenzene*	<0.050	0.050	03/26/2021	ND	1.95	97.7	2.00	7.35	
Total Xylenes*	<0.150	0.150	03/26/2021	ND	5.77	96.2	6.00	6.96	
Total BTX	<0.300	0.300	03/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/29/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	367	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	178	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.5 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 18 @ 6" (H210759-61)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2021	ND	2.16	108	2.00	0.691		
Toluene*	<0.050	0.050	03/27/2021	ND	2.10	105	2.00	0.687		
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	2.04	102	2.00	0.883		
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.99	99.8	6.00	0.910		
Total BTEx	<0.300	0.300	03/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	1500	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	972	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 68.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 19 @ 6" (H210759-62)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2021	ND	2.16	108	2.00	0.691		
Toluene*	<0.050	0.050	03/27/2021	ND	2.10	105	2.00	0.687		
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	2.04	102	2.00	0.883		
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.99	99.8	6.00	0.910		
Total BTEX	<0.300	0.300	03/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/29/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	2300	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	739	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 70.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 138 % 42.2-156

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 20 @ 6" (H210759-63)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.16	108	2.00	0.691	
Toluene*	<0.050	0.050	03/27/2021	ND	2.10	105	2.00	0.687	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	2.04	102	2.00	0.883	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.99	99.8	6.00	0.910	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	79.3	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	36.8	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 62.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 64.7 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 21 @ 6" (H210759-64)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.16	108	2.00	0.691	
Toluene*	<0.050	0.050	03/27/2021	ND	2.10	105	2.00	0.687	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	2.04	102	2.00	0.883	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.99	99.8	6.00	0.910	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	<10.0	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.5 % 42.2-156

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 22 @ 6" (H210759-65)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.16	108	2.00	0.691	
Toluene*	<0.050	0.050	03/27/2021	ND	2.10	105	2.00	0.687	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	2.04	102	2.00	0.883	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.99	99.8	6.00	0.910	
Total BTX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	2900	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	954	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 167 % 42.2-156

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 03/25/2021  
 Reported: 03/29/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 03/24/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F FL 23 @ 6" (H210759-66)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2021	ND	2.16	108	2.00	0.691	
Toluene*	<0.050	0.050	03/27/2021	ND	2.10	105	2.00	0.687	
Ethylbenzene*	<0.050	0.050	03/27/2021	ND	2.04	102	2.00	0.883	
Total Xylenes*	<0.150	0.150	03/27/2021	ND	5.99	99.8	6.00	0.910	
Total BTEX	<0.300	0.300	03/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/29/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2021	ND	230	115	200	2.23	
DRO >C10-C28*	63.0	10.0	03/27/2021	ND	241	121	200	3.87	
EXT DRO >C28-C36	33.7	10.0	03/27/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.0 % 42.2-156

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

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**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 7

Page 68 of 74

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST																													
Project Manager: Joel Lowry										P.O. #:										Chloride TPH (8015M) BTEX (8021B)																													
Address: P.O. Box 301										Company: COG																																							
City: Lovington State: NM Zip: 88260										Attn: Sheldon Hitchcock																																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429										Address:																																							
Project #: 11378 Project Owner: COG										City:																																							
Project Name: Sebastian Fed Com 1H										State: Zip:																																							
Project Location: Rural Lea County										Phone #:																																							
Sampler Name: Matthew Grieco & Trey Sims										Fax #:																																							
FOR LAB USE ONLY																																																	
Lab I.D.										Sample I.D.																																							
										MATRIX										PRESERV.										SAMPLING																			
										GROUNDWATER										ACID/BASE										DATE										TIME									
										WASTEWATER										ICE / COOL																													
										SOIL										OTHER :																													
										OIL																																							
										SLUDGE																																							
1 WH1										G 1										X										3/24/21										X									
2 SWH B										G 1										X										3/24/21										X									
3 A NW										C 1										X										3/24/21										X X X									
4 A SW										C 1										X										3/24/21										X X X									
5 A FL1 @ 1'										C 1										X										3/24/21										X X X									
6 B WW										C 1										X										3/24/21										X X X									
7 B SW										C 1										X										3/24/21										X X X									
8 B NW										C 1										X										3/24/21										X X X									
9 B FL @ 2'										C 1										X										3/24/21										X X X									
10 B FL2 @ 2'										C 1										X										3/24/21										X X X									

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Relinquished By:	Date: 3-25-21 Time: 1540	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 0.9c #1/3	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) TO	

Please email results to pm@etechenv.com.

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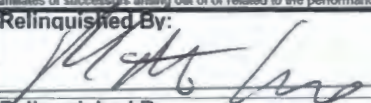
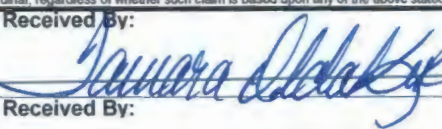
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 7

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																							
Address: P.O. Box 301				Company: COG																											
City: Lovington State: NM Zip: 88260				Attn: Sheldon Hitchcock																											
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																											
Project #: 11378 Project Owner: COG				City:																											
Project Name: Sebastian Fed Corn 1H				State: Zip:																											
Project Location: Rural Lea County				Phone #:																											
Sampler Name: Matthew Grieco & Trey Sims				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																			
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME																			
H210759																															
11 B FL3 @ 2'		C 1						X		X		3/24/21		X		X		X													
12 C NW		C 1						X		X		3/24/21		X		X		X													
13 C SW		C 1						X		X		3/24/21		X		X		X													
14 C FL @ 2.5'		C 1						X		X		3/24/21		X		X		X													
15 D NW		C 1						X		X		3/24/21		X		X		X													
16 D SW		C 1						X		X		3/24/21		X		X		X													
17 D EW1		C 1						X		X		3/24/21		X		X		X													
18 D EW2		C 1						X		X		3/24/21		X		X		X													
19 D WW1		C 1						X		X		3/24/21		X		X		X													
20 D WW2		C 1						X		X		3/24/21		X		X		X													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																															
Relinquished By: 				Date: 3-25-21 Time: 1540				Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																			
Relinquished By:				Date:				Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																			
				Time:								REMARKS:																			
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																			
Sampler - UPS - Bus - Other: -0.9c #113				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				(Initials) T.D.																							

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## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 3 of 7

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company: COG																									
City: Lovington		State: NM Zip: 88260		Attn: Sheldon Hitchcock																									
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																									
Project #: 11378		Project Owner: COG		City:																									
Project Name: Sebastian Fed Com 1H				State: Zip:																									
Project Location: Rural Lea County				Phone #:																									
Sampler Name: Matthew Grieco & Trey Sims				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING																			
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME			
H210759				C 1				X										X		3/24/21				X		X		X	
21		D FL1 @ 6"		C 1				X										X		3/24/21				X		X		X	
22		D FL2 @ 6"		C 1				X										X		3/24/21				X		X		X	
23		D FL3 @ 6"		C 1				X										X		3/24/21				X		X		X	
24		D FL4 @ 6"		C 1				X										X		3/24/21				X		X		X	
25		D FL5 @ 6"		C 1				X										X		3/24/21				X		X		X	
26		D FL6 @ 6"		C 1				X										X		3/24/21				X		X		X	
27		D FL7 @ 6"		C 1				X										X		3/24/21				X		X		X	
28		E NW		C 1				X										X		3/24/21				X		X		X	
29		E WW		C 1				X										X		3/24/21				X		X		X	
30		E EW		C 1				X										X		3/24/21				X		X		X	

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Relinquished By:	Date: 3-25-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1540		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)			CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -0.9c #113			TO	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 7

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Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																	
Address: P.O. Box 301				Company: COG																					
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Project #: 11378 Project Owner: COG				City:																					
Project Name: Sebastian Fed Com 1H				State: Zip:																					
Project Location: Rural Lea County				Phone #:																					
Sampler Name: Matthew Grieco & Trey Sims				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE ICE / COOL OTHER:		DATE TIME													
H210759				C 1				X		X		3/24/21													
31 E FL1 @ 6"		C 1				X		X		3/24/21															
32 E FL2 @ 6"		C 1				X		X		3/24/21															
33 E FL3 @ 6"		C 1				X		X		3/24/21															
34 E FL4 @ 6"		C 1				X		X		3/24/21															
35 E FL5 @ 6"		C 1				X		X		3/24/21															
36 E FL6 @ 6"		C 1				X		X		3/24/21															
37 E FL7 @ 6"		C 1				X		X		3/24/21															
38 F WW1		C 1				X		X		3/24/21															
39 F WW2		C 1				X		X		3/24/21															
40 F WW3		C 1				X		X		3/24/21															
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Relinquished By: [Signature]				Date: 3-25-21		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: 1540						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.													
Sampler - UPS - Bus - Other: - 0.9c #113				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				(Initials) TO																	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 7

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																			
Project Manager: Joel Lowry										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
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Sampler Name: Matthew Grieco & Trey Sims										Fax #:																													
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.								(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING																			
														GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME																			
H210759										C 1								X		3/24/21																			
41 F SW1										C 1								X		3/24/21																			
42 F SW2										C 1								X		3/24/21																			
43 F EW1										C 1								X		3/24/21																			
44 F FL1 @ 6"										C 1								X		3/24/21																			
45 F FL2 @ 6"										C 1								X		3/24/21																			
46 F FL3 @ 6"										C 1								X		3/24/21																			
47 F FL4 @ 6"										C 1								X		3/24/21																			
48 F FL5 @ 6"										C 1								X		3/24/21																			
49 F FL6 @ 6"										C 1								X		3/24/21																			
50 F FL7 @ 6"										C 1								X		3/24/21																			
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Relinquished By: <i>[Signature]</i>										Date: 3-25-21										Received By: <i>[Signature]</i>										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:									
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Relinquished By:										Date:										Received By:										REMARKS:									
										Time:																													
Delivered By: (Circle One)										Sample Condition										CHECKED BY:										Please email results to pm@etechenv.com.									
Sampler - UPS - Bus - Other: - 0.9c #113										Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No										(Initials) TO.																			

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

Page 74 of 74

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---

April 30, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SEBASTION FED COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 04/27/21 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4B @ 6" (H211085-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	70.7 %	44.3-133							
Surrogate: 1-Chlorooctadecane	69.3 %	38.9-142							

**Sample ID: FL 2B @ 6" (H211085-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	70.1 %	44.3-133							
Surrogate: 1-Chlorooctadecane	68.6 %	38.9-142							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FEW 1B (H211085-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	40.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	71.5 %	44.3-133							
Surrogate: 1-Chlorooctadecane	72.4 %	38.9-142							

**Sample ID: DSWB (H211085-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	65.5 %	44.3-133							
Surrogate: 1-Chlorooctadecane	63.7 %	38.9-142							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DFL 6B @ 1' (H211085-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	72.1 %	44.3-133							
Surrogate: 1-Chlorooctadecane	70.6 %	38.9-142							

**Sample ID: CNWB (H211085-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	70.9 %	44.3-133							
Surrogate: 1-Chlorooctadecane	69.2 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CFL 5B @ 3' (H211085-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	71.0 %	44.3-133							
Surrogate: 1-Chlorooctadecane	69.1 %	38.9-142							

**Sample ID: DFL 5B @ 1' (H211085-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	77.6 %	44.3-133							
Surrogate: 1-Chlorooctadecane	76.3 %	38.9-142							

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
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Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BSWB @ 1' (H211085-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	72.3 %	44.3-133							
Surrogate: 1-Chlorooctadecane	70.0 %	38.9-142							

**Sample ID: BFL 3B @ 2' (H211085-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/29/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	69.1 %	44.3-133							
Surrogate: 1-Chlorooctadecane	67.1 %	38.9-142							

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
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Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BFL 2B @ 2' (H211085-11)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/29/2021	ND	416	104	400	0.00		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111		
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912		
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND						
Surrogate: 1-Chlorooctane	71.3 %	44.3-133								
Surrogate: 1-Chlorooctadecane	69.2 %	38.9-142								

**Sample ID: DFL 4B @ 0-6" (H211085-12)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/29/2021	ND	416	104	400	0.00		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	233	117	200	0.111		
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	0.912		
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND						
Surrogate: 1-Chlorooctane	75.9 %	44.3-133								
Surrogate: 1-Chlorooctadecane	74.8 %	38.9-142								

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BWWB (H211085-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	79.7 %	44.3-133							
Surrogate: 1-Chlorooctadecane	76.1 %	38.9-142							

**Sample ID: DEW 2B (H211085-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/29/2021	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32		
DRO >C10-C28*	86.4	10.0	04/29/2021	ND	226	113	200	0.365		
EXT DRO >C28-C36	46.7	10.0	04/29/2021	ND						
Surrogate: 1-Chlorooctane	79.5 %	44.3-133								
Surrogate: 1-Chlorooctadecane	83.6 %	38.9-142								

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DWW 1B (H211085-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	78.3 %	44.3-133							
Surrogate: 1-Chlorooctadecane	75.6 %	38.9-142							

**Sample ID: DNWB (H211085-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	78.3 %	44.3-133							
Surrogate: 1-Chlorooctadecane	75.7 %	38.9-142							

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DWW 2B (H211085-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	13.2	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	81.4 %	44.3-133							
Surrogate: 1-Chlorooctadecane	78.2 %	38.9-142							

**Sample ID: FSW 2B (H211085-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	138	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	83.3	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	74.7 %	44.3-133							
Surrogate: 1-Chlorooctadecane	79.1 %	38.9-142							

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 16B 0-6" (H211085-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/29/2021	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32		
DRO >C10-C28*	2580	10.0	04/29/2021	ND	226	113	200	0.365		
EXT DRO >C28-C36	939	10.0	04/29/2021	ND						
Surrogate: 1-Chlorooctane	81.5 %	44.3-133								
Surrogate: 1-Chlorooctadecane	165 %	38.9-142								

**Sample ID: FFL 19B 0-6" (H211085-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/29/2021	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32		
DRO >C10-C28*	351	10.0	04/29/2021	ND	226	113	200	0.365		
EXT DRO >C28-C36	127	10.0	04/29/2021	ND						
Surrogate: 1-Chlorooctane	73.8 %	44.3-133								
Surrogate: 1-Chlorooctadecane	93.7 %	38.9-142								

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 22B 0-6" (H211085-21)**

Chloride, SM4500Cl-B		mg/ kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/ kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	684	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	1170	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	73.7 %	44.3-133							
Surrogate: 1-Chlorooctadecane	98.3 %	38.9-142							

**Sample ID: FFL 15B 0-6" (H211085-22)**

Chloride, SM4500Cl-B		mg/ kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/ kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	651	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	218	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	78.0 %	44.3-133							
Surrogate: 1-Chlorooctadecane	83.1 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 18B 0-6" (H211085-23)**

Chloride, SM4500Cl-B		mg/ kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	531	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	230	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	81.5 %	44.3-133							
Surrogate: 1-Chlorooctadecane	104 %	38.9-142							

**Sample ID: FFL 14B 0-6" (H211085-24)**

Chloride, SM4500Cl-B		mg/ kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/ kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	78.5	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	31.1	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	73.3 %	44.3-133							
Surrogate: 1-Chlorooctadecane	75.4 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 12B 0-6" (H211085-25)**

Chloride, SM4500CI-B		mg/ kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	04/29/2021	ND	416	104	400	0.00		
TPH 8015M		mg/ kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32		
DRO >C10-C28*	7050	10.0	04/29/2021	ND	226	113	200	0.365		
EXT DRO >C28-C36	2070	10.0	04/29/2021	ND						
Surrogate: 1-Chlorooctane	81.7 %	44.3-133								
Surrogate: 1-Chlorooctadecane	325 %	38.9-142								

**Sample ID: FFL 7B 0-6" (H211085-26)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	1370	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	548	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	77.8 %	44.3-133							
Surrogate: 1-Chlorooctadecane	111 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 04/27/2021  
 Reported: 04/30/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 11B 0-6" (H211085-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2021	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	1650	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	692	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	78.8 %	44.3-133							
Surrogate: 1-Chlorooctadecane	119 %	38.9-142							

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 17 of 19

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: <u>Joel Lowry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: <u>COG operating</u>																	
City: Lovington		State: NM		Zip: 88260		Attn: <u>Sheldoa Hitchcock</u>															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																	
Project #: <u>11378</u>		Project Owner: <u>COG operating</u>		City:																	
Project Name: <u>Sebastian Fed com #001H</u>				State:      Zip:																	
Project Location: <u>Rural Lea</u>				Phone #:																	
Sampler Name: <u>Spencer Blackwood</u>				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING									
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
<u>H211085</u>																					
<u>1 FL4B@6"</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>2 FL2B@6"</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>3 FEW1B</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>4 DSW1B</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>5 DFL6B@1'</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>6 CNW1B</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>7 CFL5B@3'</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>8 DFL5B@1'</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>9 DSW1B</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<u>10 BFL3B@2'</u>				<u>C</u>				<u>✓</u>				<u>✓</u>			<u>4/27/21</u>						
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
Relinquished By: <u>Spencer Blackwood</u>				Date: <u>4/27/21</u>		Received By: <u>Amara Aldakry</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:									
				Time: <u>1552</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:									
Relinquished By:				Date:		Received By:				REMARKS:											
				Time:																	
Delivered By: (Circle One)						Sample Condition			CHECKED BY:			Please email results to pm@etechenv.com.									
Sampler - UPS - Bus - Other: <u>5.3c #113</u>						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			(Initials) <u>YO.</u>												



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 19

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
<b>Address:</b> P.O. Box 301				<b>Company:</b> COG operating																						
<b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260				<b>Attn:</b> Sheldon Hitchcock																						
<b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429				<b>Address:</b>																						
<b>Project #:</b> 11378 <b>Project Owner:</b> COG operating				<b>City:</b>																						
<b>Project Name:</b> Sebastian Fedcom #001H				<b>State:</b> <b>Zip:</b>																						
<b>Project Location:</b> Rural Leon				<b>Phone #:</b>																						
<b>Sampler Name:</b> Spencer Blackwood				<b>Fax #:</b>																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
H211085																										
11	BFL2B@2'	C				✓				✓			4/27/21		✓	✓										
12	DFL4B@0-6"	C				✓				✓			4/27/21		✓	✓										
13	BWW13	C				✓				✓			4/27/21		✓	✓										
14	DEW2B	C				✓				✓			4/27/21		✓	✓										
15	DWW13	C				✓				✓			4/27/21		✓	✓										
16	DNWB	C				✓				✓			4/27/21		✓	✓										
17	DWW2B	C				✓				✓			4/27/21		✓	✓										
18	FSW2B	C				✓				✓			4/27/21		✓	✓										
19	FFL16B 0-6"	C				✓				✓			4/27/21		✓	✓										
20	FFL19B 0-6"	C				✓				✓			4/27/21		✓	✓										

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<b>Relinquished By:</b> Spencer Blackwood <b>Date:</b> 4/27/21 <b>Time:</b> 1552	<b>Received By:</b> [Signature] <b>Date:</b> <b>Time:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>  Please email results to pm@etechenv.com.
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 5.3 c #113	<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) TO

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



# ARDINAL LABORATORIES

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 19

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																									
Project Manager: <u>Joel Lowry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																									
Address: P.O. Box 301				Company: <u>COG operating</u>																													
City: Lovington		State: NM		Zip: 88260		Attn: <u>Sheldon Hitchcock</u>																											
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:		City:																											
Project #: <u>11378</u>		Project Owner: <u>COG operating</u>		State:		Zip:																											
Project Name: <u>Sebastian Fed Com #001H</u>				Phone #:																													
Project Location: <u>Rural Lea</u>				Fax #:																													
Sampler Name: <u>Spencer Blackwood</u>																																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																			
<u>H211085</u>																																	
<u>21</u>	<u>FFL22B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>22</u>	<u>FFL15B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>23</u>	<u>FFL18B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>24</u>	<u>FFL14B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>25</u>	<u>FFL12B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>26</u>	<u>FFL7B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>27</u>	<u>FFL11B0-6"</u>	<u>C</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>4/27/21</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																	
Relinquished By:		Date: <u>4/27/21</u>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																									
<u>Spencer Blackwood</u>		Time: <u>1552</u>		<u>Jamara Adak</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																									
Relinquished By:		Date:		Received By:		REMARKS:																											
		Time:																															
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																									
Sampler - UPS - Bus - Other: <u>57.3c #113</u>				Cool Intact				(Initials)																									
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<u>JD</u>																									

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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May 04, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SEBASTION FED COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 05/03/21 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 05/03/2021  
 Reported: 05/04/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 05/03/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 12C @ 1' (H211121-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	64.5 %	44.3-133							
Surrogate: 1-Chlorooctadecane	64.7 %	38.9-142							

**Sample ID: DEW2C (H211121-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	71.0 %	44.3-133							
Surrogate: 1-Chlorooctadecane	72.1 %	38.9-142							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 05/03/2021  
 Reported: 05/04/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 05/03/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 16C @ 1' (H211121-03)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
Surrogate: 1-Chlorooctane	68.1 %	44.3-133							
Surrogate: 1-Chlorooctadecane	68.8 %	38.9-142							

**Sample ID: FFL 11C @ 6"-9" (H211121-04)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
Surrogate: 1-Chlorooctane	66.6 %	44.3-133							
Surrogate: 1-Chlorooctadecane	66.4 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 05/03/2021  
 Reported: 05/04/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 05/03/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FFL 7C @ 6"-9" (H211121-05)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
Surrogate: 1-Chlorooctane	68.4 %	44.3-133							
Surrogate: 1-Chlorooctadecane	68.1 %	38.9-142							

**Sample ID: EWWB (H211121-06)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
Surrogate: 1-Chlorooctane	72.4 %	44.3-133							
Surrogate: 1-Chlorooctadecane	73.2 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 05/03/2021  
 Reported: 05/04/2021  
 Project Name: SEBASTION FED COM #001H  
 Project Number: 11378  
 Project Location: COG - RURAL LEA COUNTY

Sampling Date: 05/03/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EEWB (H211121-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2021	ND	390	97.5	400	0.442	
DRO >C10-C28*	<10.0	10.0	05/03/2021	ND	344	86.0	400	0.466	
EXT DRO >C28-C36	<10.0	10.0	05/03/2021	ND					
Surrogate: 1-Chlorooctane	65.3 %	44.3-133							
Surrogate: 1-Chlorooctadecane	65.6 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 7 of 7

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
<b>Project Manager:</b> JOBL Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
<b>Address:</b> P.O. Box 301				<b>Company:</b> COG operating																			
<b>City:</b> Lovington		<b>State:</b> NM		<b>Zip:</b> 88260		<b>Attn:</b> Sheldon Hitchcock																	
<b>Phone #:</b> (575) 396-2378		<b>Fax #:</b> (575) 396-1429		<b>Address:</b>																			
<b>Project #:</b> 11378		<b>Project Owner:</b> COG operating		<b>City:</b>																			
<b>Project Name:</b> Sebastian Fed Com #001H				<b>State:</b>																<b>Zip:</b>			
<b>Project Location:</b> Rural Lea				<b>Phone #:</b>																			
<b>Sampler Name:</b> Spencer/Blackwood				<b>Fax #:</b>																			

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)	
GROUNDWATER	WASTEWATER					SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :									
1	FFL12C@1'			C											5/3/21						
2	DEW2C			C											5/3/21						
3	PFL16C@1'			C											5/3/21						
4	FFL11C@6"-9"			C											5/3/21						
5	FFL7C@6"-9"			C											5/3/21						
6	EWWB			C											5/3/21						
7	EEWB			C											5/3/21						

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<b>Relinquished By:</b> Spencer/Blackwood <b>Date:</b> 5/3/21 <b>Time:</b> 7:05	<b>Received By:</b>  <b>Date:</b> <b>Time:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REMARKS:</b> Bask! Please email results to pm@etechenv.com.
--	---	--

<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 34c #113	<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) TO.
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## **Appendix D**


### **Photographic Log**

## Photographic Log





## Photographic Log

<b>Photo Number:</b> 3	 <p>Apr 27, 2021 at 1:41:09 PM +32.224437,-103.515231</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b> View of a portion of the excavated area on the caliche pad.	

<b>Photo Number:</b> 4	 <p>Apr 27, 2021 at 1:41:14 PM +32.224437,-103.515231</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> View of a portion of the excavated area on the caliche pad.	


## Photographic Log

<b>Photo Number:</b> 5	 A photograph showing a wide, light-colored dirt road or access road. In the background, there are several large, green, rectangular industrial tanks or containers. The sky is blue with some clouds. The photo is timestamped "Apr 27, 2021 at 1:41:55 PM" and "32.224637, -103.515099".
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b> View of a portion of the excavated area on the caliche pad/access road.	


<b>Photo Number:</b> 6	 A photograph showing a dirt road or access road, similar to the one in the previous photo. The ground is reddish-brown and appears to be excavated or disturbed. In the background, there are industrial structures, including a tall, thin tower or chimney. The sky is blue with some clouds. The photo is timestamped "Apr 27, 2021 at 1:42:26 PM" and "32.224676, -103.514917".
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of a portion of the excavated area in the pasture.	


## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b> View of a portion of the excavated area in the pasture.	


<b>Photo Number:</b> 8	
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b> View of a portion of the excavated area in the pasture.	


## Photographic Log

<b>Photo Number:</b> 9	 A photograph showing a large, flat, reddish-brown dirt area in the foreground. In the background, there are several industrial structures, including a tall vertical tank and a larger horizontal tank, under a clear blue sky. The photo is timestamped "May 7, 2021 at 3:13:24 PM" and has coordinates "+32.224615,-103.515233".
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> View of the remediated area after backfilling and regrading.	


<b>Photo Number:</b> 10	 A photograph showing a large, flat, reddish-brown dirt area. In the middle ground, there is a small, light-colored rectangular structure with some equipment on top. The background shows a flat landscape under a clear blue sky. The photo is timestamped "May 7, 2021 at 3:13:28 PM" and has coordinates "+32.224615,-103.515233".
<b>Photo Direction:</b> East-Northeast	
<b>Photo Description:</b> View of the remediated area after backfilling and regrading.	


## Photographic Log

<b>Photo Number:</b> 11	 A photograph showing a wide, flat, reddish-brown dirt area. In the background, there is a small, light-colored metal structure with a door open. The sky is clear and blue. The photo is taken from a low angle, looking towards the structure. <p>May 7, 2021 at 3:13:41 PM +32.224594,-103.515117</p>
<b>Photo Direction:</b> East-Northeast	
<b>Photo Description:</b> View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 12	 A photograph showing a wide, flat, reddish-brown dirt area with sparse green vegetation. In the background, there are power lines and a clear blue sky with some clouds. The photo is taken from a low angle, looking towards the horizon. <p>May 7, 2021 at 3:14:09 PM +32.224755,-103.514940</p>
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b> View of the remediated area after backfilling and regrading.	

## Photographic Log

<b>Photo Number:</b> 13	 <p>May 7, 2021 at 3:14:19 PM +32.224755,-103.514940</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 14	 <p>May 7, 2021 at 3:14:32 PM +32.224726,-103.514827</p>
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b> View of the remediated area after backfilling and regrading.	

Incident ID	nRM1929031912
District RP	
Facility ID	
Application ID	

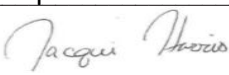
## Closure

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

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

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

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

Printed Name: Jacqui Harris Title: Environmental Coordinator  
Signature:  Date: 5/24/2021  
email: jacqui.harris@conocophillips.com Telephone: (505) 412-1111

### OCD Only

Received by: Robert Hamlet Date: 8/24/2021

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

Closure Approved by: Robert Hamlet Date: 8/24/2021  
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

**District I**

1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 29314

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 29314
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM1929031912 SEBASTIAN FEDERAL COMM #001H, thank you. This closure is approved. Delineation of edges/sidewalls of a release requires clean samples equal to or less than 600 mg/kg for chlorides and 100 mg/kg for TPH. If the edge of the spill has been visually identified, a sample will need to be pulled from the clean side to prove extent. Once that is accomplished, you can excavate to the table 1 criteria. This will define the edge of the release and ensure the release did not leave the pad. Please make sure this is accomplished on all future reports.	8/25/2021