Page 1 of 187

Incident ID	nAB1908057694
District RP	2RP-5318
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.
	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODe	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Signature: Carmen Pätt	Date: _5/15/2020
email: cpitt@grizzlyenergyllc.com	Telephone: 432-248-8145
OCD Only	
Received by:Cristina Eads	Date:05/15/2020
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by: Juliu 2	Date: 07/22/2020
Printed Name: Cristina Eads	Title: Environmental Specialist

Remediation Summary and Soil Closure Request

Grizzly Energy, LLC Aspen 32 State Com #001

Eddy County, New Mexico
Unit Letter J, Section 32, Township 17 South, Range 28 East
Latitude 32.78792 North, Longitude 104.19439 West
NMOCD Reference No. 2RP-3196 & 2RP-5318

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Lance Crenshaw

Joel W. Lowry



TABLE OF CONTENTS

	Section
PROJECT INFORMATION	. 1.0
SITE CHARACTERIZATION	. 2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	. 3.0
REMEDIATION ACTIVITIES SUMMARY	4.0
BACKGROUND INFORMATION	5.0
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN	. 6.0
SOIL CLOSURE REQUEST	
LIMITATIONS	. 8. 0
DISTRIBUTION	. 9.0

FIGURES

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site & Sample Location Map

TABLES

Table 1 - Concentrations of BTEX, TPH, and/or Chloride in Soil

APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Grizzly Energy, LLC, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Aspen 32 State Com #001. Details of the release are summarized below:

		Location	on of Release So	urce				
Latitude:	32.7	18792	Longitude:	-104.19439				
		Provid	ed GPS are in WGS84 form	at.				
Site Name:	1 71 7							
Date Release Discov	vered:	3/13/2019	API # (if applic	able):				
Unit Letter	Section	Township	Range	County				
J	32	17S	28E	Eddy				
Surface Owner:	State	Federal Tribal	X Private (Nar	ne COG Operating, LLC)				
		Nature a	nd Volume of I	Release				
Crude Oil	Volum	e Released (bbls)		Volume Recovered (bbls)				
X Produced Water	er Volum	e Released (bbls)	24	Volume Recovered (bbls) 21				
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?								
Condensate	Volume Released (bbls) Volume Recovered (bbls)							
Natural Gas	Volum	Volume Released (Mcf) Volume Recovered (Mcf)						
Other (describe	e) Volum	Volume/Weight Released Volume/Weight Recovered						
Cause of Release: The release was att	tributed to a	loss of power at the f	facility resulting in the	ne pumps stoping and the alarm to fail.				
		Iı	nitial Response					
X The source of t	he release h	as been stopped.						
X The impacted area has been secured to protect human health and the environment.								
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices								
X All free liquids	and recover	able materials have be	en removed and man	aged appropriately.				

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

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

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

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 for the Site is as follows:

	Closure Criteria for Soil I	mpacted by a Release	
Probable Depth to Groundwater	Constituent	Method	Limit
	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
>100 Ft.	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 BACKGROUND INFORMATION

On July 28, 2015, a release was discovered on at the Aspen 32 State Com Tank Battery. The release was attributed to a discharge line developing a pin hole leak. The initial form C-141 indicated that approximately 24 bbls of produced water was released. During initial response activities, approximately 21 bbls of produced water were recovered. Between July 18 and 21, 2017, EPI conducted an environmental investigation at the Site. During the environmental investigation, soil samples were collected in an effort to determine the vertical and horizontal extent of soil impacts. Upon conducting the environmental investigation, a *Site Characterization and Workplan* was prepared detailing remediaiton activities designed to advance the Site toward and NMOCD-approved closure. The *Workplan* was subsequently approved.

On March 13, 2019, a second reportable release occured at the Aspen 32 State Com Tank Battery. The release was attributed to a loss of electrical power to the pumps and alarms. The initial form C-141 indicated that approximately 60 bbls of crude oil and 10 bbls of produced water were released. During initial response activities, approximately 55 bbls crude oil and 10 bbls of produced water were recovered. On March 21, 2019, LEA conducted an initial release assessment at the Site. During the initial release assessment, soil samples were collected in an effort to determine the vertical and horizontal extent of soil impacts. Upon conducting the initial release assessment, a *Site Assessment Report and Proposed Remediation Plan* was prepared detailing remediaiton activities designed to advance the Site toward and NMOCD-approved closure. The *Proposed Remediation Plan* was subsequently approved.

The releases affected the same area on the north side of the tank battery and were remediated simultaneously.

5.0 REMEDIATION ACTIVITIES SUMMARY

On April 13, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard. Excavated material was temporarily stockpiled on-site, then transported to and NMOCD-approved surface waste facility for disposal.

Between April 14 and 28, 2020, Etech collected thirty-two (32) excavation confirmation soil samples (FL1 @ 4', FL 2 @ 5', FL 3 @ 4' - FL 5 @ 4', FL 6 @ 1' - FL 8 @ 1', FL 9 @ 3' 528, FL 10 - FL 15, NW1b, NW2b NW 3 @ 3' 432, NW 4, NW 5, EW 1 @ 1', EW 2 @ 2', SW1, SW1b, SW 1 1408, SW 2 2308, SW 3 2324, SW4 @ 6" - SW 6 @ 6", WW1 220 and WW2 220) from the floor and sidewalls of the excavated area. The collected soil sample was submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples NW3 @ 3' 432 and FL9 @ 3' 528. Impacted soil in the areas characterized by soil samples NW3 @ 3' 432 and FL9 @ 3' 528 was excavated.

On May 5, 2020, Etech collected two (2) excavation confirmation soil samples (NW3-B and FL9B @ 5' 528) from the floor and sidewall of the excavated area. The collected soil sample was submitted to a certified commercial laboratory for analysis of TPH concentrations, which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 125 Ft. in length, 30 to 45 Ft in width and ranged from 6 inches to 4 Ft. in depth. During the course or remediation activities approximately 300 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

7.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Grizzly Energy, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Aspen 32 State Com #001 Site.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and 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 Grizzly Energy, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Grizzly Energy, LLC.

9.0 DISTRIBUTION

Grizzly Energy, LLC 4001 Penbrook Suite 201 Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

(Electronic Submission)

Figure 1 Topographic Map

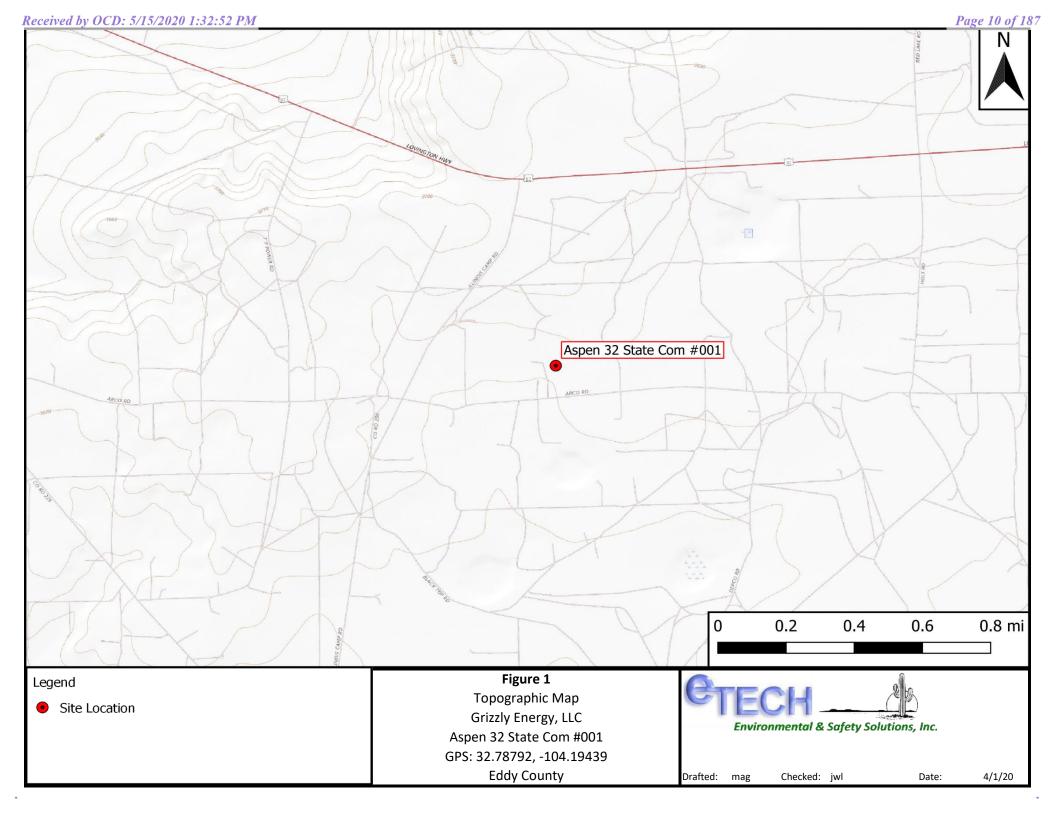


Figure 2 Aerial Proximity Map

Figure 3 Site and Sample Location Map

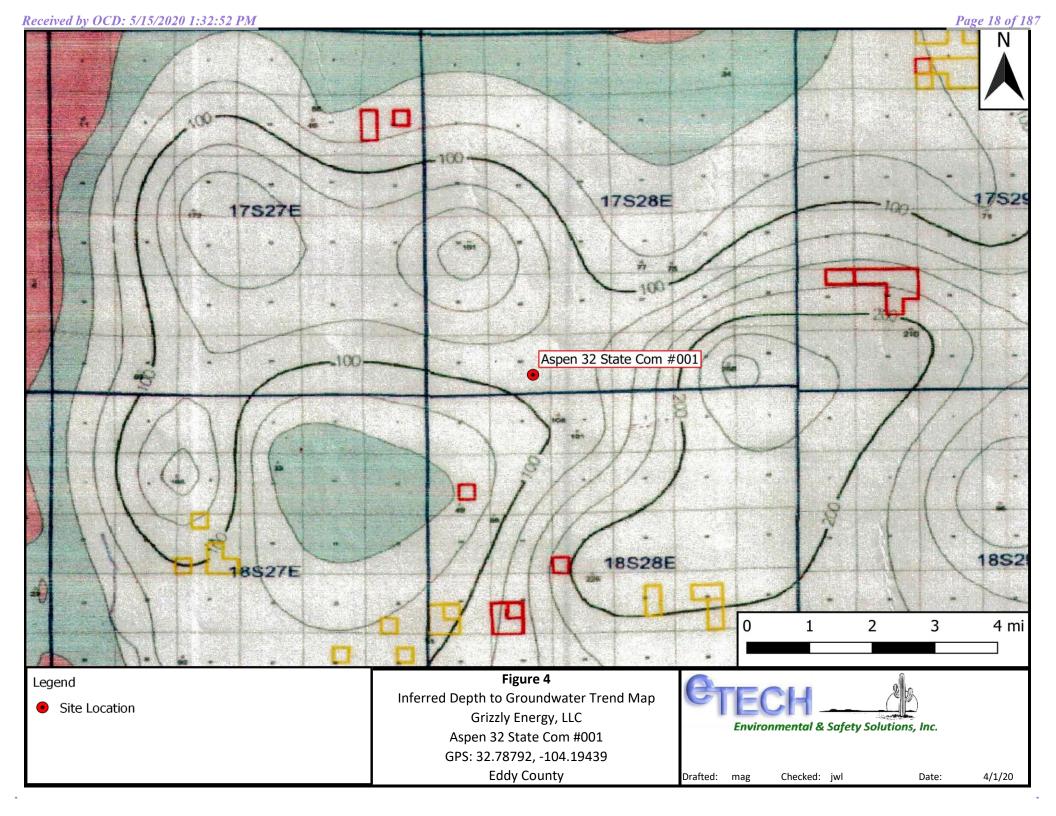
Table 1 Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH, AND CHLORIDE IN SOIL Grizzly Energy, LLC

Aspen 32 State Com #001 NMOCD Ref. #: 2RP-5318

NMC	OCD Closure	Criteria		10	50 Kei. #	-	-	1000	-	2500	20000
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 CI
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL1 @ 4'	4/14/20	4'	In-Situ	< 0.00200	< 0.00200	< 50.0	< 50.0	<50.0	< 50.0	< 50.0	1,060
FL2 @ 5'	4/15/20	5'	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	1,340
FL3 @ 4	4/16/20	4'	In-Situ	< 0.00200	< 0.00200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	2,500
FL4 @ 4'	4/21/20	4'	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	1,300
FL5 @ 4'	4/21/20	4'	In-Situ	< 0.00202	< 0.00202	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	1,710
FL6 @ 1'	4/21/20	1'	In-Situ	< 0.00199	< 0.00199	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	2,250
FL7 @ 1'	4/21/20	1'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,350
FL8 @ 1'	4/21/20	1'	In-Situ	< 0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	2,830
FL9 @ 3' 528	4/23/20	3'	Excavated	< 0.00863	< 0.00447	<49.9	121	121	<49.9	121	465
FL 10	4/27/20	1'	In-Situ	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	177
FL 11	4/27/20	6"	In-Situ	< 0.00200	< 0.00200	< 50.0	271	271	68.9	340	160
FL 12	4/27/20	6"	In-Situ	< 0.00199	< 0.00199	<49.9	51.7	51.7	<49.9	51.7	17.5
FL 13	4/27/20	6"	In-Situ	< 0.00200	< 0.00200	<49.8	60.3	60.3	<49.8	60.3	17.5
FL 14	4/27/20	6"	In-Situ	< 0.00200	< 0.00200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	10.2
FL 15	4/27/20	6"	In-Situ	< 0.00202	< 0.00202	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	11.2
NW1b	4/16/20	N/A	In-Situ	< 0.00198	< 0.00198	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	5.33
NW2b	4/16/20	N/A	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	< 5.00
NW3 @ 3' 432	4/23/20	N/A	Excavated	< 0.00775	< 0.00401	<49.9	146	146	<49.9	146	455
NW 4	4/27/20	N/A	In-Situ	< 0.00202	< 0.00202	<49.9	51.1	51.1	<49.9	51.1	14.6
NW5	4/27/20	N/A	In-Situ	< 0.00200	< 0.00200	<49.9	60.6	60.6	<49.9	60.6	16.1
EW1 @ 1'	4/28/20	N/A	In-Situ	< 0.00199	< 0.00199	<49.8	85.3	85	<49.8	85.3	14.3
EW2 @ 2'	4/28/20	N/A	In-Situ	< 0.00199	< 0.00199	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	14.6
SW1	4/16/20	N/A	In-Situ	< 0.00198	< 0.00198	< 50.0	890	890	201	1,090	2,720
SW1B	4/27/20	N/A	In-Situ	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	261
SW1 1408	4/23/20	N/A	In-Situ	< 0.00906	< 0.00469	<49.9	<49.9	<49.9	<49.9	<49.9	1,540
SW2 2308	4/23/20	N/A	In-Situ	< 0.00854	< 0.00442	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	3,780
SW3 2324	4/23/20	N/A	In-Situ	< 0.00828	< 0.00429	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	4,230
SW4 @ 6"	4/28/20	N/A	In-Situ	< 0.00200	< 0.00200	< 50.0	77.2	77.2	< 50.0	77.2	13.1
SW5 @ 6"	4/28/20	N/A	In-Situ	< 0.00201	< 0.00201	< 50.0	83.3	83.3	< 50.0	833	13.4
SW6 @ 6"	4/28/20	N/A	In-Situ	< 0.00200	< 0.00200	<49.9	82.6	83	<49.9	82.6	14.6
WW1 220	4/23/20	N/A	In-Situ	< 0.00908	< 0.00470	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	20.3
WW2 220	4/23/20	N/A	In-Situ	< 0.00794	< 0.00411	<49.9	<49.9	<49.9	<49.9	<49.9	25.6
FL9 B @ 5' 528	5/5/20	5'	In-Situ	-	-	<49.9	< 50.0	< 50.0	< 50.0	< 50.0	-
NW3-B	5/5/20	N/A	In-Situ	-	-	<49.9	<49.9	<49.9	<49.9	<49.9	-

Appendix A Depth to Groundwater Information





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

X

577784

(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)

1 1 2 05 18S 26E

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD

QQQ Subbasin County 64 16 4 Sec Tws Rng Code

3625988 3132

Water DistanceDepthWellDepthWater Column 235

95 feet

Average Depth to Water:

Minimum Depth: 95 feet

Maximum Depth: 95 feet

Record Count: 1

POD Number

RA 11857 POD1

UTMNAD83 Radius Search (in meters):

Easting (X): 575437.3 Radius: 3220 **Northing (Y):** 3628063.34

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.

4/1/20 8:14 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number RA 11857 POD1 **Q64 Q16 Q4 Sec Tws Rng** 1 1 2 05 18S 26E X

er License: 1064

Driller Company:

577784 3625988

Driller License:

Drill

DELFORD W. MARTIN

Driller Name: N

MARTIN, DELFORD

Drill Start Date: (

09/25/2012

Drill Finish Date:

10/01/2012

Plug Date:

Log File Date:

10/15/2012

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

95 GPM

Casing Size:

5.00

Depth Well:

235 feet **Depth Water:**

95 feet

Water Bearing Stratifications:

Top Bottom Description
95 130 Sandstone/G

130 Sandstone/Gravel/Conglomerate

160

235 Sandstone/Gravel/Conglomerate

Casing Perforations:

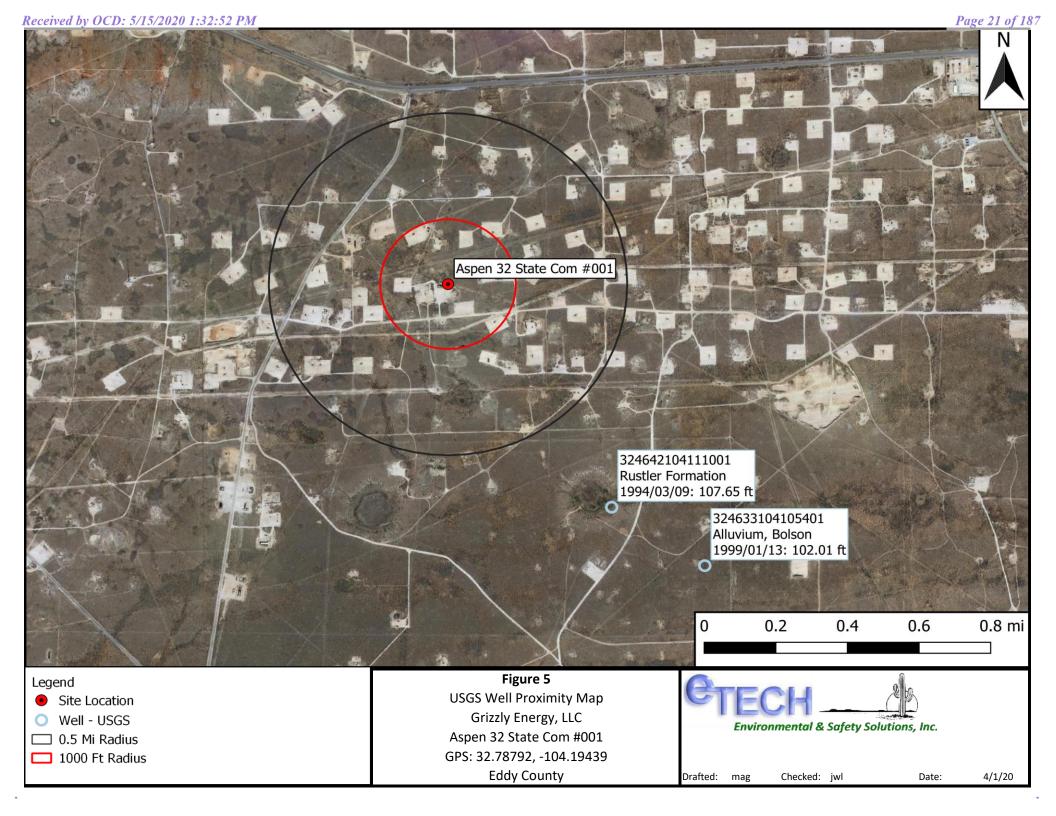
Top Bottom

140 235

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.

4/1/20 8:14 AM

POINT OF DIVERSION SUMMARY



National Water Information System: Web Interface

USGS Water Resources

Data Cate
Groundy

ata Category:		Geographic Area:		
Groundwater	•	United States	▼	GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 324633104105401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324633104105401 18S.28E.04.32412

Eddy County, New Mexico Latitude 32°46'33", Longitude 104°10'54" NAD27 Land-surface elevation 3,665 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	
1985-06-04		D	103.08				2	U		U	J ,	Α
1989-02-02		D	107.27			2	2	L		l	J ,	Α
1994-03-09		D	100.78			2	2	5		ι	J .	Α
1999-01-13		D	102.01			2	2	S	USGS	5	5	Α

Laplander						
Section	Code	Description				
Water-level date-time accuracy D		Date is accurate to the Day				
Water-level accuracy	cy 2 Water level accuracy to nearest hundredth of a foot					
Status		The reported water-level measurement represents a static level				
Method of measurement	S	Steel-tape measurement.				
Method of measurement	U	Unknown method.				
Measuring agency		Not determined				

U.S. Geological Survey

Explanation

Source of measurement S Measured by personnel of reporting agency.

Source of measurement U Source is unknown.

Water-level approval status A Approved for publication -- Processing and review completed.

USGS

Questions about sites/data? Feedback on this web site Automated retrievals Help

<u>Data Tips</u>

Explanation of terms

Measuring agency

.

Accessibility

Plug-Ins

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-04-01 10:09:39 EDT 0.27 0.24 nadww01



National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater United States ▼ GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 324642104111001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324642104111001 18S.28E.04.131444

Eddy County, New Mexico Latitude 32°46'42", Longitude 104°11'10" NAD27 Land-surface elevation 3,640 feet above NGVD29 The depth of the well is 145.00 feet below land surface.

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

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

Date	Time	? Water-level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1985-06-04		D	109.39			2	2 2	2	S	U	Α
1990-09-19		D	106.60			2	2 2	7	S	U	Α
1994-03-09		D	107.65			2	2 2	7	S	U	Α

Evn	lanation
EXP	ianation

Section	Code	Description			
Water-level date-time accuracy D		ate is accurate to the Day			
Water-level accuracy 2		ater level accuracy to nearest hundredth of a foot			
Status Z		Other conditions existed that would affect the measured water level (explain in remarks).			
Method of measurement S		Steel-tape measurement.			
Measuring agency		Not determined			
Source of measurement	U	Source is unknown.			
Water-level approval status	Α	Approved for publication Processing and review completed.			

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> Data Tips Explanation of terms
Subscribe for system changes **News**

Accessibility Plug-Ins FOIA Privacy

Policies and Notices



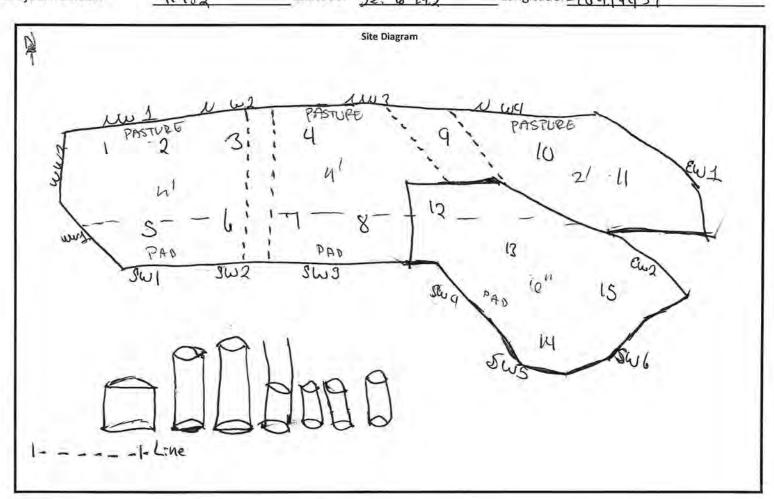
Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-04-01 10:09:42 EDT 0.31 0.24 nadww01

Appendix B Field Data and Soil Profile Logs



Initial Release Assessment Form

Environmental & Sujety Suludum	s, inc			Datas	(1 0 0 00	
Project: A social	2001	1 ottored	Clean Up Level:	Date:	4-2x-20	
Project Number:	11987	Com#cc/	32 Tran	Longitud	e: _10(1)00/79	



Notes:	
Collected soil on firmation samples	
Sent Semales to lab	
Assisted in buddhow in excavain	

~Length: \ ~Widt	h: 2000	~Area:	240	~Depth: ("- 4"		
105	35'				Yes	No
3-4 Representative Pictures of	f the Affecte	d Area inclu	iding sample	locations?		
Necessary Samples Field Scre	ened and on	Ice?			P	
Sample and Field Screen Data	Entered on	Sample Log	?			
Was horizontal and vertical d	elineation ac	hieved?				



Sample Log

					Date.		
Project: Aspen 32 State Com #001							
Project Numbe	r:	11982	Latitude:	32.78792	Longitude:	-104.19439	

Sample ID	PID/Odor	Chloride Conc.	GPS
P183'	light	1200 4	
081041	none	916	
@2@5'	light	848	
JWI	hone	1444 A	
uw)	None	2324 *	
WI	Some	2008	
FL3 (94'	none	1408/1600	
JW/b	None	220	
JWZb	none	220	
1424	none	2324	
15 P4'	none	1199	
1600 1°	None	1008	
17/21	nove	2324	
=18011	non	406	
VINI	None	720 Horton Sampling	
WW2	none	220	
SW 7	light.	1400	
5W2	light	2308	
W3	18963	2324	
JW3@3'	lisht	472	
(9@3'	Licht	SOX	
11)	neme	368	
11101	Light	480	
212 @ 6"	1000	288	
L13 @6"	Nave	720	
L140 6"	NONE	U32	
1 13 0 6" 1 15 0 6" 1 W 4 00 6"	None	720 432 388	
INYOL!	None	210	
W5 PL	pore	220	
V- J	No.	V*	

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

A-Did not yo to lab

		6
1 -		Silve
100	1-()-	(12
	1-1-1	- Tara
	Environmental & Safe	ty Solutions, inc.

Sample Log

				Date.	
Project: Asnen	32 State com &	COS			
Project Number:	11972	Latitude:	32 78792	Longitude: _ ~ 104. 1943 9	

Sample ID	PID/Odor	Chloride Conc.	GPS
SW4 SW5 SW 6 EW3 CW2	10	Chloride Conc. 196 220 [68]	
SW 5	no	248	
Shile	no	020	
EW 3	ne	1(3)	
Cusa	no	144	
			1
	1.00		
			7
	-		
	_		
	T = 1 (1)		

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

Appendix C Laboratory Analytical Reports



Certificate of Analysis Summary 660559

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 001

Project Id:

Project Location:

Contact:

11982

PM

Date Received in Lab: Tue 05.05.2020 10:23

Report Date: 05.06.2020 15:45

Project Manager: Jessica Kramer

	Lab Id:	660559-001		660559-002					
Analysis Requested	Field Id:	FL9-B		NW3-B					
Analysis Requesieu	Depth:	5-	5-						
	Matrix:	SOIL		SOIL					
	Sampled:	05.04.2020 00:00		05.05.2020 0	00:00				
TPH By SW8015 Mod	Extracted:	** ** **	**	** ** ** 1	**				
	Analyzed:	05.05.2020	5:19	05.05.2020 1	5:38				
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9				
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9				
Total TPH		<50.0	50.0	<49.9	49.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer



Analytical Report 660559

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Aspen 32 001 11982 05.06.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.06.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 660559

Aspen 32 001
Project Address:

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660559. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 660559 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 660559



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL9-B	S	05.04.2020 00:00	5	660559-001
NW3-B	S	05.05.2020 00:00		660559-002

Page 35 of 187

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 001

Project ID: Report Date: 05.06.2020 11982 Work Order Number(s): 660559 Date Received: 05.05.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 660559

Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 001

Sample Id:

FL9-B

Matrix: Soil Date Received:05.05.2020 10:23

Lab Sample Id: 660559-001

Date Collected: 05.04.2020 00:00

Sample Depth: 5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

Date Prep: 05.05.2020 10:00 Basis:

Wet Weight

Seq Number: 3125132

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	05.05.2020 15:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	05.05.2020 15:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	05.05.2020 15:19	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	05.05.2020 15:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-130	05.05.2020 15:19		
o-Terphenyl		84-15-1	78	%	70-130	05.05.2020 15:19		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 001

Sample Id: NW3-B Matrix:

Soil

Date Received:05.05.2020 10:23

Lab Sample Id: 660559-002

Date Collected: 05.05.2020 00:00

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DVM

% Moisture:

ARM

Date Prep:

05.05.2020 10:00

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	05.05.2020 15:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	05.05.2020 15:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	05.05.2020 15:38	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	05.05.2020 15:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-130	05.05.2020 15:38		
o-Terphenyl		84-15-1	79	%	70-130	05.05.2020 15:38		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Flag

Flag

SW8015P

SW8015P

SW8015P

mg/kg

05.05.2020 13:42

Prep Method:

Prep Method:

20



QC Summary 660559

Etech Environmental & Safety Solution, Inc

Aspen 32 001

Analytical Method: TPH By SW8015 Mod

Prep Method: Date Prep: 05.05.2020 Seq Number: 3125132 Matrix: Solid

7702758-1-BLK LCS Sample Id: 7702758-1-BKS LCSD Sample Id: 7702758-1-BSD MB Sample Id:

LCS %RPD RPD MB Spike LCS Limits Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.0 1000 890 89 0 20 05.05.2020 12:44 892 89 70-130 mg/kg 05.05.2020 12:44 70-130 20 mg/kg Diesel Range Organics (DRO) 1000 941 94 937 0 < 50.0 94

MB LCS LCSD Units Analysis MB LCS Limits LCSD **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 05.05.2020 12:44 1-Chlorooctane 79 89 92 70-130 % 05.05.2020 12:44 o-Terphenyl 82 88 84 70-130 %

Analytical Method: TPH By SW8015 Mod

3125132 Matrix: Solid Seq Number: Date Prep: 05.05.2020

MB Sample Id: 7702758-1-BLK

83.7

997

MB Units Analysis Flag **Parameter** Result Date

05.05.2020 12:25 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

Analytical Method: TPH By SW8015 Mod

Diesel Range Organics (DRO)

3125132 Seq Number: Matrix: Soil Date Prep: 05.05.2020 MSD Sample Id: 660520-001 SD Parent Sample Id: 660520-001 MS Sample Id: 660520-001 S

930

Parent Spike MS MS %RPD RPD Units MSD MSD Limits Analysis **Parameter** Result Result Limit Amount %Rec Result %Rec Date 05.05.2020 13:42 Gasoline Range Hydrocarbons (GRO) <49.9 997 866 87 868 87 70-130 0 20 mg/kg

931

85

70-130

0

MSD MS MS Units Analysis **MSD** Limits **Surrogate** %Rec Flag Flag Date %Rec 05.05.2020 13:42 91 70-130 1-Chlorooctane 89 % 05.05.2020 13:42 o-Terphenyl 89 84 70-130 %

85

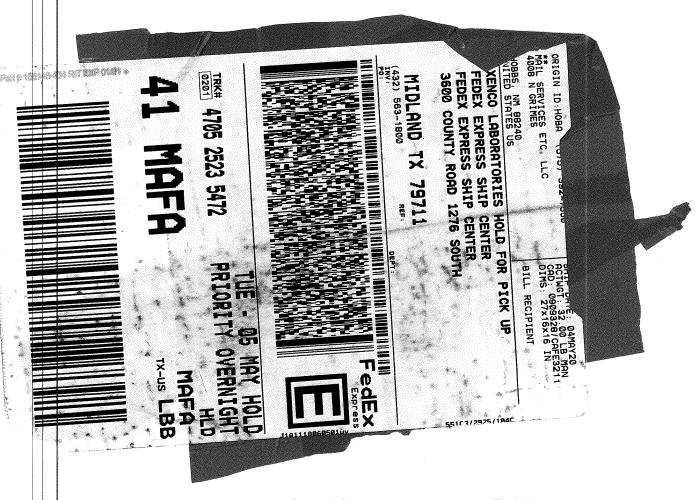


Chain of Custody

Houston, TX (281) 240-4200; Dallas, TX (214) 902-0300. San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (551) 689-6701 Atlanta, GA (770) 449-8800

Work Order No:
ž
Õ
de
Ž
.0
6
5
2
10
ICA
100
10

Phone:
Address:



Page 11 of 12

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.05.2020 10.23.11 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 660559

Temperature Measuring device used: R9

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

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

Ana	lyst:

PH Device/Lot#:

Checklist completed by:

Briant

Date: 05.06.2020

Checklist reviewed by: Jessica Warner

Date: 05.06.2020



Certificate of Analysis Summary 660216

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 St Com #001

Project Id:

11982

Date Received in Lab: Thu 04.30.2020 10:00

Contact:

PM

Report Date: 05.01.2020 17:00

Project Location:

Eddy County

Project Manager: Jessica Kramer

							1			1		
	Lab Id:	660216-0	001	660216-0	02	660216-0	003	660216-	004	660216-0	05	
Analysis Requested	Field Id:	SW4		SW5		SW6		EW1		EW2		
mulysis Requesicu	Depth:	6- In		6- In		6- In		1- ft		1- ft		
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	04.28.2020	00:00	04.28.2020	00:00	04.28.2020	00:00	04.28.2020	00:00	04.28.2020	00:00	
BTEX by EPA 8021B	Extracted:	04.30.2020	17:00	04.30.2020	17:00	04.30.2020	17:00	04.30.2020	17:00	04.30.2020	17:00	
	Analyzed:	05.01.2020	01:17	05.01.2020	01:37	05.01.2020	09:20	05.01.2020	09:40	05.01.2020	10:00	
	Units/RL:	mg/kg	RL									
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	
m,p-Xylenes		< 0.00399	0.00399	< 0.00402	0.00402	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00398	0.00398	
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	
Chloride by EPA 300	Extracted:	04.30.2020	18:00	04.30.2020	18:00	04.30.2020	18:00	04.30.2020	18:00	04.30.2020	18:00	
	Analyzed:	05.01.2020	01:03	05.01.2020	01:18	05.01.2020	01:24	05.01.2020	01:29	05.01.2020	01:34	
	Units/RL:	mg/kg	RL									
Chloride		13.1	4.99	13.4	5.04	14.6	4.97	14.3	4.97	14.6	5.05	
TPH By SW8015 Mod	Extracted:	04.30.2020	15:00	04.30.2020	15:00	04.30.2020	15:00	04.30.2020	15:00	04.30.2020	15:00	
	Analyzed:	05.01.2020	00:31	05.01.2020	00:50	05.01.2020	01:09	05.01.2020	01:28	05.01.2020	01:47	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	
Diesel Range Organics (DRO)		77.2	50.0	83.3	50.0	82.6	49.9	85.3	49.8	<50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	
Total TPH		77.2	50.0	83.3	50.0	82.6	49.9	85.3	49.8	< 50.0	50.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer

Jessica Kramer Project Manager



Analytical Report 660216

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Aspen 32 St Com #001 11982 05.01.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.01.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 660216

Aspen 32 St Com #001
Project Address: Eddy County

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660216. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 660216 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 660216



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW4	S	04.28.2020 00:00	6 In	660216-001
SW5	S	04.28.2020 00:00	6 In	660216-002
SW6	S	04.28.2020 00:00	6 In	660216-003
EW1	S	04.28.2020 00:00	1 ft	660216-004
EW2	S	04.28.2020 00:00	1 ft	660216-005

Received by OCD: 5/15/2020 1:32:52 PM

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 St Com #001

05.01.2020 Project ID: Report Date: 11982 Work Order Number(s): 660216

Date Received: 04.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3124748 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7702490-1-

BLK,660216-001.



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id: SW4

Lab Sample Id: 660216-001

Matrix: Soil Date Received:04.30.2020 10:00

Date Collected: 04.28.2020 00:00

Sample Depth: 6 In

Prep Method: E300P

Analytical Method: Chloride by EPA 300

SPC

SPC Analyst:

Tech:

Date Prep:

04.30.2020 18:00

% Moisture: Basis:

Wet Weight

Seq Number: 3124709

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.1	4.99	mg/kg	05.01.2020 01:03		1

Analytical Method: TPH By SW8015 Mod

DVM Tech:

Analyst: ARM Seq Number: 3124734 Date Prep:

04.30.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	05.01.2020 00:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	77.2	50.0		mg/kg	05.01.2020 00:31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	05.01.2020 00:31	U	1
Total TPH	PHC635	77.2	50.0		mg/kg	05.01.2020 00:31		1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date]
1-Chlorooctane	111-85-3	76	%	70-130	05.01.2020 00:31	
o-Terphenyl	84-15-1	75	%	70-130	05.01.2020 00:31	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id:

SW4

Matrix:

Date Received:04.30.2020 10:00

Lab Sample Id: 660216-001

Soil Date Collected: 04.28.2020 00:00

04.30.2020 17:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

KTL

Date Prep:

% Moisture:

Basis:

Wet Weight

KTL Analyst: Seq Number: 3124748

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.01.2020 01:17	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.01.2020 01:17	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.01.2020 01:17	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.01.2020 01:17	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.01.2020 01:17	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.01.2020 01:17	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.01.2020 01:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	64	%	70-130	05.01.2020 01:17	**	
1,4-Difluorobenzene	4	540-36-3	95	%	70-130	05.01.2020 01:17		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id:

Tech:

Analyst:

SW5

Matrix: Soil Date Received:04.30.2020 10:00

Lab Sample Id: 660216-002

Date Collected: 04.28.2020 00:00

04.30.2020 15:00

Sample Depth: 6 In

Prep Method: E300P

Analytical Method: Chloride by EPA 300

SPC

SPC

Date Prep: 04.30.2020 18:00 % Moisture: Basis:

Wet Weight

Seq Number: 3124709

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.4	5.04	mg/kg	05.01.2020 01:18		1

Analytical Method: TPH By SW8015 Mod

DVM

Tech:

ARM

Analyst: Seq Number: 3124734 Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	05.01.2020 00:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	83.3	50.0		mg/kg	05.01.2020 00:50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	05.01.2020 00:50	U	1
Total TPH	PHC635	83.3	50.0		mg/kg	05.01.2020 00:50		1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

111-85-3 05.01.2020 00:50 1-Chlorooctane 70-130 o-Terphenyl 84-15-1 84 70-130 $05.01.2020\ 00.50$

Date Prep:



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

04.30.2020 17:00

Sample Id: SW5

Lab Sample Id: 660216-002

5

Matrix: Soil

Date Received:04.30.2020 10:00

Date Collected: 04.28.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

oj E111 0021B

% Moisture:

Tech: Analyst: KTL KTL

Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.01.2020 01:37	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.01.2020 01:37	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.01.2020 01:37	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.01.2020 01:37	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.01.2020 01:37	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.01.2020 01:37	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.01.2020 01:37	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.01.2020 01:37	
4-Bromofluorobenzene	460-00-4	93	%	70-130	05.01.2020 01:37	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id:

SW6

Matrix: Soil

Date Received:04.30.2020 10:00

Lab Sample Id: 660216-003

Date Collected: 04.28.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: SPC

SPC

Date Prep: 04.30.2020 18:00

Basis:

Wet Weight

Seq Number: 3124709

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	4.97	mg/kg	05.01.2020 01:24		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.30.2020 15:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	05.01.2020 01:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	82.6	49.9		mg/kg	05.01.2020 01:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	05.01.2020 01:09	U	1
Total TPH	PHC635	82.6	49.9		mg/kg	05.01.2020 01:09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	73	%	70-130	05.01.2020 01:09		
o-Terphenyl		84-15-1	73	%	70-130	05.01.2020 01:09		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id: SW6

Matrix: Soil

Date Received:04.30.2020 10:00

Lab Sample Id: 660216-003

Date Collected: 04.28.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

KTL

Date Prep: 04.30.2020 17:00

% Moisture:

Basis:

Wet Weight

Analyst: KTL

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	05.01.2020 09:20	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	05.01.2020 09:20	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	05.01.2020 09:20	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	05.01.2020 09:20	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	05.01.2020 09:20	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	05.01.2020 09:20	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	05.01.2020 09:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	05.01.2020 09:20	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.01.2020 09:20	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id:

EW1

Matrix: Soil Date Received:04.30.2020 10:00

Lab Sample Id: 660216-004

Date Collected: 04.28.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

SPC

% Moisture:

Analyst:

SPC

Date Prep:

04.30.2020 18:00

Basis:

Wet Weight

Seq Number: 3124709

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.3	4.97	mg/kg	05.01.2020 01:29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DVM ARM

Date Prep:

04.30.2020 15:00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.01.2020 01:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	85.3	49.8		mg/kg	05.01.2020 01:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.01.2020 01:28	U	1
Total TPH	PHC635	85.3	49.8		mg/kg	05.01.2020 01:28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	73	%	70-130	05.01.2020 01:28		
o-Terphenyl		84-15-1	72	%	70-130	05.01.2020 01:28		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id:

EW1

Matrix: Soil Date Received:04.30.2020 10:00

Lab Sample Id: 660216-004

Date Collected: 04.28.2020 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL

% Moisture:

KTL

Date Prep: 04.30.2020 17:00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.01.2020 09:40	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.01.2020 09:40	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.01.2020 09:40	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.01.2020 09:40	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.01.2020 09:40	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.01.2020 09:40	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.01.2020 09:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	05.01.2020 09:40		
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.01.2020 09:40		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id: EW2 Matrix: Soil Date Received:04.30.2020 10:00

Lab Sample Id: 660216-005

Date Collected: 04.28.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

SPC

% Moisture:

SPC Analyst:

Date Prep:

04.30.2020 18:00

Basis:

Wet Weight

Seq Number: 3124709

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	5.05	mg/kg	05.01.2020 01:34		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

04.30.2020 15:00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	05.01.2020 01:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	05.01.2020 01:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	05.01.2020 01:47	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	05.01.2020 01:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	75	%	70-130	05.01.2020 01:47		
o-Terphenyl		84-15-1	76	%	70-130	05.01.2020 01:47		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St Com #001

Sample Id: EW2

Matrix: Soil Date Received:04.30.2020 10:00

Lab Sample Id: 660216-005

Date Collected: 04.28.2020 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL

% Moisture:

KTL

Date Prep: 04.30.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.01.2020 10:00	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.01.2020 10:00	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.01.2020 10:00	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.01.2020 10:00	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.01.2020 10:00	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.01.2020 10:00	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.01.2020 10:00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	05.01.2020 10:00		
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.01.2020 10:00		



Flagging Criteria

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

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



660216 **QC Summary**

Etech Environmental & Safety Solution, Inc

Aspen 32 St Com #001

Analytical Method: Chloride by EPA 300

Seg Number: 3124709

Matrix: Solid

E300P Prep Method:

Date Prep:

04.30.2020 7702467-1-BLK LCS Sample Id: 7702467-1-BKS LCSD Sample Id: 7702467-1-BSD MB Sample Id:

LCS RPD MB Spike LCS LCSD Limits %RPD Units Analysis LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride < 5.00 250 271 108 237 95 90-110 13 20 05.01.2020 00:20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3124709 Matrix: Soil

Prep Method: Date Prep: 04.30.2020

E300P

Parent Sample Id: 660206-001

660206-001 S MS Sample Id:

MSD Sample Id: 660206-001 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date

20 05.01.2020 00:36 Chloride 99.8 249 387 115 393 118 90-110 2 mg/kg X

Analytical Method: Chloride by EPA 300

Seq Number:

3124709

Matrix: Soil

Prep Method:

E300P

Date Prep: MS Sample Id: 660316-001 S Parent Sample Id: 660316-001

04.30.2020 MSD Sample Id: 660316-001 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis **Parameter** Flag Result Result Limit Date Amount %Rec Result %Rec Chloride 252 329 107 20 05.01.2020 01:50 58.9 343 113 90-110 4 mg/kg X

Analytical Method: TPH By SW8015 Mod

Seg Number:

3124734

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 04.30.2020

MB Sample Id: 7702449-1-BLK LCS Sample Id: 7702449-1-BKS LCSD Sample Id: 7702449-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 04.30.2020 19:49 70-130 20 < 50.0 1000 883 88 875 88 mg/kg 1 04.30.2020 19:49 Diesel Range Organics (DRO) 940 94 70-130 2 20 < 50.0 1000 962 96 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 04.30.2020 19:49 1-Chlorooctane 81 88 87 70-130 % 04.30.2020 19:49 o-Terphenyl 84 84 81 70-130 %

Analytical Method: TPH By SW8015 Mod

Seq Number:

3124734

Matrix: Solid

Prep Method: Date Prep: SW8015P 04.30.2020

MB Sample Id: 7702449-1-BLK

Parameter

MBResult

Units

Analysis

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

Date 04.30.2020 19:30

Flag

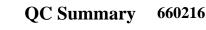
Flag

SW8015P

SW5035A

Prep Method:

Prep Method:





Etech Environmental & Safety Solution, Inc

Aspen 32 St Com #001

Analytical Method: TPH By SW8015 Mod

Seg Number: 3124734 Matrix: Soil Date Prep: 04.30.2020

Parent Sample Id: 660173-001 MS Sample Id: 660173-001 S MSD Sample Id: 660173-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD **MSD Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.0 999 887 89 20 04.30.2020 20:45 893 89 70-130 1 mg/kg 04.30.2020 20:45 70-130 20 Diesel Range Organics (DRO) < 50.0 999 957 966 97 1 mg/kg 96

MSD MS MS MSD Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 04.30.2020 20:45 1-Chlorooctane 94 90 70-130 % 04.30.2020 20:45 o-Terphenyl 87 86 70-130 %

Analytical Method: BTEX by EPA 8021B

3124748 Seq Number: Matrix: Solid Date Prep: 04.30.2020

7702490-1-BLK LCS Sample Id: 7702490-1-BKS LCSD Sample Id: 7702490-1-BSD MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0821	82	0.0851	85	70-130	4	35	mg/kg	04.30.2020 21:38
Toluene	< 0.00200	0.100	0.0888	89	0.0912	91	70-130	3	35	mg/kg	04.30.2020 21:38
Ethylbenzene	< 0.00200	0.100	0.0952	95	0.0976	98	70-130	2	35	mg/kg	04.30.2020 21:38
m,p-Xylenes	< 0.00400	0.200	0.194	97	0.199	100	70-130	3	35	mg/kg	04.30.2020 21:38
o-Xylene	< 0.00200	0.100	0.0971	97	0.0998	100	70-130	3	35	mg/kg	04.30.2020 21:38

MB MB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 04.30.2020 21:38 1,4-Difluorobenzene 85 109 108 70-130 % 04.30.2020 21:38 4-Bromofluorobenzene ** 116 117 70-130 % 64

Analytical Method: BTEX by EPA 8021B

< 0.00199

0.0994

0.0401

SW5035A Prep Method: Seg Number: 3124748 Matrix: Soil Date Prep: 04.30.2020 Parent Sample Id: 659915-003 MS Sample Id: 659915-003 S MSD Sample Id: 659915-003 SD

RPD **Parent** Spike MS MS MSD MSD Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec %Rec Result 04.30.2020 22:19 < 0.00199 0.0994 0.0510 51 0.0420 70-130 19 35 X Benzene 42 mg/kg 04.30.2020 22:19 0.0347 30 70-130 14 35 X Toluene < 0.00199 0.0994 35 0.0303 mg/kg Ethylbenzene < 0.00199 0.0994 0.0344 35 0.0257 26 70-130 29 35 04.30.2020 22:19 X mg/kg 0.199 0.0553 28 0.0512 70-130 35 04.30.2020 22:19 X m,p-Xylenes < 0.00398 26 8 mg/kg

0.0317

32

70-130

23

35

mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		13	**	70-130	%	04.30.2020 22:19
4-Bromofluorobenzene	56	**	57	**	70-130	%	04.30.2020 22:19

40

o-Xylene

E = MSD/LCSD Result

04.30.2020 22:19

X



Chain of Custody

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

Work Order No: WWW A

stitutes of assuring and a c	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al	Depth piled Depth	Due Date: CEIPT Temp Blapk: Yes No Wet Ice: Yes No Wet Ice: Yes No Wet Ice: Yes No Thermappeter ID Yes No Wet Ice: Yes No Wet Ice: Yes No Thermappeter ID Yes No Wet Ice: Yes No Wet Ic	ז א	Equen 32 St com tal	ate ZIP:	& Safety	
1631 / 245.1 / 7470	b Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn II V	TPH Modified by the lab, if received by the Sample Comments	ied Ext	ANALYSIS REQUEST Preservative Codes	to PM@etechenv.com + Client		Errigil	www.xenco.com Page

Work Order #: 660216

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.30.2020 10.00.00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R9

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

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

4na	lyst:
-----	-------

PH Device/Lot#:

Checklist completed by:

Date: 04.30.2020

Checklist reviewed by: Jessica Vramer

Date: 04.30.2020



Certificate of Analysis Summary 659899

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Apsen 32 SL Com #001

Project Id:

Contact:

11952

PM

Date Received in Lab: Tue 04.28.2020 11:20

Report Date: 04.29.2020 16:17

Project Location:

Project Manager: Jessica Kramer

	Lab Id:	659899-001		659899-0	02	659899-003		659899-004		659899-005		659899-006	
Analysis Requested	Field Id:	FL 10)	FL 11		FL 12		FL 13		FL 14		FL 15	
Anaiysis Kequesieu	Depth:	1- ft		6- ft		6- ft		6- ft		6- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	04.27.2020	00:00	04.27.2020	00:00	04.27.2020	00:00	04.27.2020	00:00	04.27.2020	00:00	04.27.2020	00:00
BTEX by EPA 8021B	Extracted:	04.28.2020	17:15	04.28.2020	17:15	04.28.2020	17:15	04.28.2020	17:15	04.28.2020	17:15	04.28.2020	17:15
	Analyzed:	04.29.2020	13:03	04.29.2020	13:23	04.29.2020	13:44	04.29.2020	14:04	04.29.2020	14:25	04.29.2020	14:45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202
m,p-Xylenes		< 0.00399	0.00399	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00401	0.00401	< 0.00400	0.00400	< 0.00403	0.00403
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	04.28.2020	17:05	04.28.2020	17:05	04.28.2020	17:05	04.28.2020	17:05	04.28.2020	17:05	04.28.2020	17:05
	Analyzed:	04.29.2020	02:06	04.29.2020	02:22	04.29.2020 02:28		04.29.2020 02:33		04.29.2020 02:38		04.29.2020 02:5	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		177	4.99	160	4.97	17.5	5.00	17.5	5.03	10.2	5.02	11.2	5.03
TPH by SW8015 Mod	Extracted:	04.28.2020	16:00	04.28.2020	16:00	04.28.2020	16:00	04.28.2020	16:00	04.28.2020	16:00	04.28.2020	16:00
	Analyzed:	04.28.2020	23:27	04.28.2020	23:46	04.29.2020	00:04	04.29.2020	00:23	04.29.2020	00:41	04.29.2020	01:00
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	< 50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	271	50.0	51.7	49.9	60.3	49.8	< 50.0	50.0	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	68.9	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0	< 50.0	50.0
Total TPH		<49.8	49.8	340	50.0	51.7	49.9	60.3	49.8	< 50.0	50.0	< 50.0	50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer

Jessica Kramer Project Manager



Certificate of Analysis Summary 659899

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Apsen 32 SL Com #001

Project Id: Contact:

Project Location:

11952 PM

Date Received in Lab: Tue 04.28.2020 11:20

Report Date: 04.29.2020 16:17

Project Manager: Jessica Kramer

								1	1
	Lab Id:	659899-0	007	659899-00	08	659899-0	09		
Analysis Requested Field		NW 4		NW5		SW1B			
marysis Requesica	Depth:	6- ft	6- ft		6- ft				
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	04.27.2020	04.27.2020 00:00		00:00	04.27.2020	00:00		
BTEX by EPA 8021B	Extracted:	04.28.2020	17:15	04.28.2020	16:00	04.28.2020	16:00		
	Analyzed:	04.29.2020	15:06	04.28.2020 2	23:43	04.29.2020	00:03		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202		
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202		
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202		
m,p-Xylenes		< 0.00404	0.00404	< 0.00401	0.00401		0.00403		
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202		
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202		
Total BTEX		<0.00202 0.00202		<0.00200 0.00200		< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	04.28.2020	17:05	04.28.2020 17:05		04.28.2020 17:05			
	Analyzed:	04.29.2020	02:59	04.29.2020 (03:04	04.29.2020	03:10		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		14.6	4.98	16.1	4.97	261	4.97		
TPH by SW8015 Mod	Extracted:	04.28.2020	16:00	04.28.2020	16:00	04.28.2020	16:00		
	Analyzed:	04.29.2020	01:19	04.29.2020 (01:38	04.29.2020	01:56		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9		
Diesel Range Organics (DRO)		51.1	49.9	60.6	49.9	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9		
Total TPH		51.1	49.9	60.6	49.9	<49.9	49.9		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer Jessica Kramer Project Manager



Analytical Report 659899

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Apsen 32 SL Com #001 11952 04.29.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



04.29.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc P.O. Box 62228

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 659899

Apsen 32 SL Com #001

Project Address:

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659899. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659899 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 659899

Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL 10	S	04.27.2020 00:00	1 ft	659899-001
FL 11	S	04.27.2020 00:00	6 ft	659899-002
FL 12	S	04.27.2020 00:00	6 ft	659899-003
FL 13	S	04.27.2020 00:00	6 ft	659899-004
FL 14	S	04.27.2020 00:00	6 ft	659899-005
FL 15	S	04.27.2020 00:00	6 ft	659899-006
NW 4	S	04.27.2020 00:00	6 ft	659899-007
NW5	S	04.27.2020 00:00	6 ft	659899-008
SW1B	S	04.27.2020 00:00	6 ft	659899-009

Received by OCD: 5/15/2020 1:32:52 PM

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Apsen 32 SL Com #001

04.29.2020 Project ID: Report Date: 11952 Work Order Number(s): 659899

Date Received: 04.28.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3124469 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7702281-1-BLK.



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 10

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-001

Date Collected: 04.27.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Wet Weight

Analyst: Seq Number: 3124470

CHE

Date Prep: 04.28.2020 17:05 Basis:

Parameter

Cas Number Chloride 16887-00-6

Result RL177 4.99

Units **Analysis Date** mg/kg 04.29.2020 02:06

Dil Flag 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.28.2020 16:00

Basis:

Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.28.2020 23:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.28.2020 23:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.28.2020 23:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.28.2020 23:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
1-Chlorooctane	111-85-3	87	%	70-130	04.28.2020 23:27	
o-Terphenyl	84-15-1	90	%	70-130	04.28.2020 23:27	



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: 1

FL 10

Matrix: Soil

Date Received:04.28.2020 11:20

Lab Sample Id: 659899-001

Date Collected: 04.27.2020 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech:

KTL

Analyst: KTL

Date Prep: 04.28.2020 17:15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.29.2020 13:03	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.29.2020 13:03	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.29.2020 13:03	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.29.2020 13:03	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.29.2020 13:03	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.29.2020 13:03	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.29.2020 13:03	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.29.2020 13:03	
4-Bromofluorobenzene	460-00-4	101	%	70-130	04.29.2020 13:03	



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: FL 11 Matrix:

Date Received:04.28.2020 11:20

Lab Sample Id: 659899-002

Soil Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: CHE

CHE

Date Prep: 04.28.2020 17:05 Basis:

Wet Weight

Seq Number: 3124470

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 160 4.97 mg/kg 04.29.2020 02:22 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM Date Prep: 04.28.2020 16:00 Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.28.2020 23:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	271	50.0		mg/kg	04.28.2020 23:46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	68.9	50.0		mg/kg	04.28.2020 23:46		1
Total TPH	PHC635	340	50.0		mg/kg	04.28.2020 23:46		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-130	04.28.2020 23:46		
o-Terphenyl		84-15-1	88	%	70-130	04.28.2020 23:46		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 11

Matrix:

Soil

Date Received:04.28.2020 11:20

Lab Sample Id: 659899-002

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: KTL

KTL

Date Prep: 04.28.2020 17:15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.29.2020 13:23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.29.2020 13:23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.29.2020 13:23	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.29.2020 13:23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.29.2020 13:23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.29.2020 13:23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.29.2020 13:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	112	%	70-130	04.29.2020 13:23		
4-Bromofluorobenzene		460-00-4	113	%	70-130	04.29.2020 13:23		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 12

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-003

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

CHE

Analyst:

CHE

Date Prep:

04.28.2020 17:05

% Moisture: Basis:

Wet Weight

Seq Number: 3124470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.5	5.00	mg/kg	04.29.2020 02:28		1

Analytical Method: TPH by SW8015 Mod

Tech:

DVM

Analyst: ARM

Seq Number: 3124486

Date Prep:

04.28.2020 16:00

Prep Method: SW8015P % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.29.2020 00:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	51.7	49.9		mg/kg	04.29.2020 00:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.29.2020 00:04	U	1
Total TPH	PHC635	51.7	49.9		mg/kg	04.29.2020 00:04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Ullits	Lillius	Alialysis Date
1-Chlorooctane	111-85-3	79	%	70-130	04.29.2020 00:04
o-Terphenyl	84-15-1	80	%	70-130	04.29.2020 00:04



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: F

FL 12

Matrix:

Soil

Date Received:04.28.2020 11:20

Lab Sample Id: 659899-003

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: KTL

KTL

Date Prep:

04.28.2020 17:15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.29.2020 13:44	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.29.2020 13:44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.29.2020 13:44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.29.2020 13:44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.29.2020 13:44	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.29.2020 13:44	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.29.2020 13:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	04.29.2020 13:44		
4-Bromofluorobenzene		460-00-4	109	%	70-130	04.29.2020 13:44		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

Tech:

Analyst:

FL 13

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-004

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

CHE

CHE

04.28.2020 17:05

% Moisture:

Basis: Wet Weight

Seq Number: 3124470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.5	5.03	mg/kg	04.29.2020 02:33		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

DVM Tech:

Analyst: ARM Date Prep:

04.28.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	04.29.2020 00:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.3	49.8		mg/kg	04.29.2020 00:23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	04.29.2020 00:23	U	1
Total TPH	PHC635	60.3	49.8		mg/kg	04.29.2020 00:23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-130	04.29.2020 00:23		
o-Terphenyl		84-15-1	82	%	70-130	04.29.2020 00:23		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 13

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-004

Date Collected: 04.27.2020 00:00

04.28.2020 17:15

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL KTL

Date Prep:

% Moisture:

Seq Number: 3124476

Wet Weight Basis:

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.29.2020 14:04	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.29.2020 14:04	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.29.2020 14:04	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	04.29.2020 14:04	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.29.2020 14:04	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.29.2020 14:04	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.29.2020 14:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	04.29.2020 14:04		
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.29.2020 14:04		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 14

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-005

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

Analyst:

CHE

CHE

Date Prep:

04.28.2020 17:05

% Moisture: Basis:

Wet Weight

Seq Number: 3124470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.2	5.02	mg/kg	04.29.2020 02:38		1

Analytical Method: TPH by SW8015 Mod

Tech:

DVM

Analyst: ARM

o-Terphenyl

Date Prep:

84-15-1

04.28.2020 16:00

Prep Method: SW8015P

04.29.2020 00:41

% Moisture:

Basis:

70-130

Wet Weight

Seq Number: 3124486

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	04.29.2020 00:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.29.2020 00:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.29.2020 00:41	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	04.29.2020 00:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-130	04.29.2020 00:41		

83



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 14

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-005

Date Collected: 04.27.2020 00:00

04.28.2020 17:15

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL KTL

Date Prep:

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.29.2020 14:25	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.29.2020 14:25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.29.2020 14:25	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.29.2020 14:25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.29.2020 14:25	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.29.2020 14:25	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.29.2020 14:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	04.29.2020 14:25		
4-Bromofluorobenzene		460-00-4	99	%	70-130	04.29.2020 14:25		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

FL 15

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-006

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

CHE

Analyst:

CHE

Date Prep:

04.28.2020 17:05

% Moisture: Basis:

Wet Weight

Seq Number: 3124470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.2	5.03	mg/kg	04.29.2020 02:54		1

Analytical Method: TPH by SW8015 Mod

Tech:

DVM

Analyst: ARM

04.28.2020 16:00 Date Prep:

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	04.29.2020 01:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.29.2020 01:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.29.2020 01:00	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	04.29.2020 01:00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	78	%	70-130	04.29.2020 01:00		
o-Terphenyl		84-15-1	79	%	70-130	04.29.2020 01:00		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: I

FL 15

Matrix: Soil

Date Received:04.28.2020 11:20

Lab Sample Id: 659899-006

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

04.29.2020 14:45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL

KTL

Date Prep: 04.28.2020 17:15

% Moisture: Basis:

70-130

Wet Weight

Seq Number: 3124476

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.29.2020 14:45	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.29.2020 14:45	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.29.2020 14:45	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.29.2020 14:45	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.29.2020 14:45	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.29.2020 14:45	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.29.2020 14:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	04.29.2020 14:45		

114

540-36-3



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

NW 4

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-007

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

CHE

Analyst:

CHE

Date Prep:

04.28.2020 17:05

% Moisture: Basis:

Wet Weight

Seq Number: 3124470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	4.98	mg/kg	04.29.2020 02:59		1

Analytical Method: TPH by SW8015 Mod

Tech:

Analyst: ARM

DVM

Date Prep:

04.28.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.29.2020 01:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	51.1	49.9		mg/kg	04.29.2020 01:19		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.29.2020 01:19	U	1
Total TPH	PHC635	51.1	49.9		mg/kg	04.29.2020 01:19		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-130	04.29.2020 01:19		
o-Terphenyl		84-15-1	84	%	70-130	04.29.2020 01:19		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: **NW 4** Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-007

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

04.29.2020 15:06

Tech: Analyst: KTL

% Moisture:

KTL

Date Prep: 04.28.2020 17:15 Basis:

70-130

Wet Weight

Seq Number: 3124476

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.29.2020 15:06	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.29.2020 15:06	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.29.2020 15:06	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.29.2020 15:06	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.29.2020 15:06	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.29.2020 15:06	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.29.2020 15:06	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	98	%	70-130	04.29.2020 15:06		

108

540-36-3



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: NW5

Lab Sample Id: 659899-008

Analytical Method: Chloride by EPA 300

Matrix:

Soil

Date Received:04.28.2020 11:20

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Prep Method: E300P

% Moisture:

Seq Number: 3124470

Analyst:

Tech:

CHE

CHE

Date Prep:

04.28.2020 17:05

04.28.2020 16:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.1	4.97	mg/kg	04.29.2020 03:04		1

Analytical Method: TPH by SW8015 Mod

DVM

Tech:

Analyst: ARM

Seq Number: 3124486

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.29.2020 01:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.6	49.9		mg/kg	04.29.2020 01:38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.29.2020 01:38	U	1
Total TPH	PHC635	60.6	49.9		mg/kg	04.29.2020 01:38		1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Date Prep:

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	82	%	70-130	04.29.2020 01:38
o-Terphenyl	84-15-1	84	%	70-130	04.29.2020 01:38



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: NW5

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-008

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL

KTL

Date Prep: 04.28.2020 16:00 % Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.28.2020 23:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.28.2020 23:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.28.2020 23:43	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	04.28.2020 23:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.28.2020 23:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.28.2020 23:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.28.2020 23:43	U	1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	04.28.2020 23:43	
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 23:43	



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id: SW1B

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-009

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

CHE

CHE Analyst:

Date Prep: 04.28.2020 17:05 Basis:

Wet Weight

Seq Number: 3124470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	261	4.97	mg/kg	04.29.2020 03:10		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.28.2020 16:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.29.2020 01:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.29.2020 01:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.29.2020 01:56	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.29.2020 01:56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-130	04.29.2020 01:56		
o-Terphenyl		84-15-1	84	%	70-130	04.29.2020 01:56		



Etech Environmental & Safety Solution, Inc, Midland, TX

Apsen 32 SL Com #001

Sample Id:

SW1B

Matrix: Soil Date Received:04.28.2020 11:20

Lab Sample Id: 659899-009

Date Collected: 04.27.2020 00:00

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

KTL

Date Prep:

04.28.2020 16:00

% Moisture: Basis:

Wet Weight

Analyst:

KTL

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	04.29.2020 00:03	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	04.29.2020 00:03	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	04.29.2020 00:03	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	mg/kg	04.29.2020 00:03	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	04.29.2020 00:03	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	04.29.2020 00:03	U	1
Total BTEX		< 0.00202	0.00202	mg/kg	04.29.2020 00:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	04.29.2020 00:03	
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.29.2020 00:03	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



659899 **QC Summary**

Etech Environmental & Safety Solution, Inc

Apsen 32 SL Com #001

Analytical Method: Chloride by EPA 300

3124470 Seq Number:

Matrix: Solid

E300P Prep Method:

Date Prep: 04.28.2020

MB Sample Id:

7702260-1-BLK

LCS Sample Id: 7702260-1-BKS

LCS

98

LCSD Sample Id: 7702260-1-BSD

Parameter

MB Result Amount

LCS Result %Rec

LCSD LCSD Result %Rec

Limits %RPD RPD Units Limit

Analysis Flag Date

Chloride

< 5.00

177

246

233

93 90-110

20 5

mg/kg

04.29.2020 01:56

Analytical Method: Chloride by EPA 300

Seq Number:

3124470

Matrix: Soil

Prep Method: Date Prep:

20

E300P 04.28.2020

Parent Sample Id:

659899-001

659899-001 S MS Sample Id:

95

MSD Sample Id:

659899-001 SD

Parameter

Chloride

Parent Result

MS MS Result %Rec

415

MSD Result 420

MSD Limits %Rec 97

90-110

%RPD RPD Limit Units Analysis

Flag Date

Analytical Method: Chloride by EPA 300

3124470

Spike

252

Spike

250

Amount

Spike

250

E300P Prep Method:

mg/kg

Units

mg/kg

Seq Number: Parent Sample Id:

659915-043

Matrix: Soil

659915-043 S

Date Prep: 04.28.2020

MSD Sample Id: 659915-043 SD

04.29.2020 02:12

Parameter

Parent

MS Sample Id: MS MS

MSD Limite

RPD %RPD

Analysis

Chloride

Result Amount 318

Result %Rec 594 110

Result 561

MSD

%Rec 96 90-110

Limit 20 6

04.29.2020 03:25

Flag Date

Analytical Method: TPH by SW8015 Mod

Seg Number:

3124486

Matrix: Solid

Prep Method:

SW8015P

MB Sample Id:

7702250-1-BLK

LCS Sample Id:

7702250-1-BKS

LCSD

%Rec

97

90

Date Prep: LCSD Sample Id: 7702250-1-BSD

04.28.2020

MB Spike LCS LCS LCSD Limits Units **Parameter** Result Limit Result Amount %Rec Result %Rec

Gasoline Range Hydrocarbons (GRO)

< 50.0 1000 1000

MB

Flag

927 93

93

89

LCSD

RPD %RPD

Limits

70-130

70-130

Analysis Flag Date

04.28.2020 21:17 70-130 20 926 93 0 mg/kg Diesel Range Organics (DRO) 1000 100 999 70-130 20 < 50.0 100 0 mg/kg

Surrogate

MB%Rec 76

79

LCS %Rec

LCS

Flag

04.28.2020 21:17 Analysis

Date

04.28.2020 21:17

04.28.2020 21:17

1-Chlorooctane o-Terphenyl

Analytical Method: TPH by SW8015 Mod Seq Number:

3124486

Matrix: Solid

LCSD

Flag

SW8015P Prep Method: Date Prep: 04.28.2020

Flag

Parameter

MBResult < 50.0

MB Sample Id: 7702250-1-BLK

Units mg/kg

Units

%

%

Analysis Date 04.28.2020 20:58

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

Log Difference

Motor Oil Range Hydrocarbons (MRO)

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

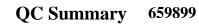
= MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

Flag





Etech Environmental & Safety Solution, Inc

Apsen 32 SL Com #001

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Seq Number:	3124486	Matrix:	Soil	Date Prep:	04.28.2020
Parent Sample Id:	659915-041	MS Sample Id:	659915-041 S	MSD Sample Id:	659915-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date]
Gasoline Range Hydrocarbons (GRO)	< 50.0	1000	947	95	1090	109	70-130	14	20	mg/kg	04.28.2020 22:12	
Diesel Range Organics (DRO)	< 50.0	1000	1030	103	1180	118	70-130	14	20	mg/kg	04.28.2020 22:12	
~			N	1S	MS	MSE	MSI	D Li	mits	Units	Analysis	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		110		70-130	%	04.28.2020 22:12
o-Terphenyl	88		98		70-130	%	04.28.2020 22:12

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3124469Matrix:SolidDate Prep:04.28.2020MB Sample Id:7702281-1-BLKLCS Sample Id:7702281-1-BKSLCSD Sample Id:7702281-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0891	89	0.0847	85	70-130	5	35	mg/kg	04.28.2020 18:44
Toluene	< 0.00200	0.100	0.0942	94	0.0878	88	70-130	7	35	mg/kg	04.28.2020 18:44
Ethylbenzene	< 0.00200	0.100	0.101	101	0.0924	92	70-130	9	35	mg/kg	04.28.2020 18:44
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.187	94	70-130	8	35	mg/kg	04.28.2020 18:44
o-Xylene	< 0.00200	0.100	0.100	100	0.0928	93	70-130	7	35	mg/kg	04.28.2020 18:44

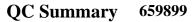
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		101		99		70-130	%	04.28.2020 18:44
4-Bromofluorobenzene	56	**	103		100		70-130	%	04.28.2020 18:44

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3124476Matrix:SolidDate Prep:04.28.2020MB Sample Id:7702285-1-BLKLCS Sample Id:7702285-1-BKSLCSD Sample Id:7702285-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	F
Benzene	< 0.00200	0.100	0.0997	100	0.0963	96	70-130	3	35	mg/kg	04.29.2020 02:52	
Toluene	< 0.00200	0.100	0.0923	92	0.0883	88	70-130	4	35	mg/kg	04.29.2020 02:52	
Ethylbenzene	< 0.00200	0.100	0.0901	90	0.0867	87	70-130	4	35	mg/kg	04.29.2020 02:52	
m,p-Xylenes	< 0.00400	0.200	0.174	87	0.168	84	70-130	4	35	mg/kg	04.29.2020 02:52	
o-Xylene	< 0.00200	0.100	0.0913	91	0.0883	88	70-130	3	35	mg/kg	04.29.2020 02:52	
			_	~~ *	GG.		* 60			* * •.		

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		102		70-130	%	04.29.2020 02:52
4-Bromofluorobenzene	97		99		100		70-130	%	04.29.2020 02:52

04.28.2020 19:24





4-Bromofluorobenzene

Etech Environmental & Safety Solution, Inc

Apsen 32 SL Com #001

103

70-130

%

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Seq Number:	3124469	Matrix:	Soil	Date Prep:	04.28.2020
Parent Sample Id:	659356-004	MS Sample Id:	659356-004 S	MSD Sample Id:	659356-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0646	65	0.0758	76	70-130	16	35	mg/kg	04.28.2020 19:24	X
Toluene	0.000990	0.0996	0.0753	75	0.0859	85	70-130	13	35	mg/kg	04.28.2020 19:24	
Ethylbenzene	0.000931	0.0996	0.0785	78	0.0901	90	70-130	14	35	mg/kg	04.28.2020 19:24	
m,p-Xylenes	< 0.00398	0.199	0.158	79	0.184	92	70-130	15	35	mg/kg	04.28.2020 19:24	
o-Xylene	0.00108	0.0996	0.0774	77	0.0891	88	70-130	14	35	mg/kg	04.28.2020 19:24	
Surrogate			MS %R		MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			10	2		103		70	-130	%	04.28.2020 19:24	

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3124476Matrix:SoilDate Prep:04.28.2020

98

Parent Sample Id: 659726-039 MS Sample Id: 659726-039 S MSD Sample Id: 659726-039 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0656	66	0.0628	63	70-130	4	35	mg/kg	04.29.2020 03:33	X
Toluene	< 0.00200	0.100	0.0614	61	0.0610	61	70-130	1	35	mg/kg	04.29.2020 03:33	X
Ethylbenzene	< 0.00200	0.100	0.0616	62	0.0623	63	70-130	1	35	mg/kg	04.29.2020 03:33	X
m,p-Xylenes	< 0.00400	0.200	0.120	60	0.123	62	70-130	2	35	mg/kg	04.29.2020 03:33	X
o-Xylene	< 0.00200	0.100	0.0634	63	0.0660	66	70-130	4	35	mg/kg	04.29.2020 03:33	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		103		70-130	%	04.29.2020 03:33
4-Bromofluorobenzene	103		109		70-130	%	04.29.2020 03:33



City, State ZIP:

3100 Plains Highway

Address: City, State ZIP:

ovington, NM, 88260

Etech Environmental & Safety

575-396-2378

Email: Email Results to PM@etechenv.com + Client

Deliverables: EDD

ADaPT

Other:

Reporting:Level I Level I PST/US TRR Level I

Project Manager: Company Name: \ddress:

Joel Lowry

Chain of Custody

Work Order No: USA SAC

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Address:	Company Nam	Bill to: (if different)			Tampa, FL (813) 620-	Hobbs, NM (575) 39
	Company Name: CTri22 ly			Atlanta, GA (770) 449-8800	Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
State of Project:	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page / of /		(561) 689-6701	0) 355-0900

Revised Balls 101419 Rev. 2019.1	6				
7/2000		44 - 9	CAN III O	i i i i i i i i i i i i i i i i i i i	1.
ature) Date/Time	Reinquisned by: (3	CI シエ・レン		Made My	Hoth Fills
			Received hy: (Signature)	Received t	Relinquished by: (Signature)
. A.	rounce: signature or this occurrent and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	company to Xeno is or expenses inc tted to Xenco, but	a valid purchase order from client ne any responsibility for any losse arge of \$5 for each sample submi	nment of samples constitutes of samples and shall not assur oplied to each project and a ch	Nouse: Signature or this document and relinquist of service. Xenco will be liable only for the cost to Xenco. A minimum charge of \$75.00 will be at
2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Mg Mn Mo Ni K Se Ag SiO li Se Ag Tl U	1 Al Sb As	TCLP / SPLP 6010: 8RCRA Sb As	to be analyzed	Circle Method(s) and Metal(s) to be analyzed
				Soil 4-27	SWIB
		-	('	Ja1 4-27	
		1	6.	50,1 4-27	DWA
		<u> </u>	6.	Soil 429	1215
		<u>,</u>	6'	8-1-3	KIN
		_	•	50:1 4:27	11
		_	6'	Sa. 14.25	R 13
		_	6'	So:1 427	K 11
				1. S. 1. 37	<u>R-10</u>
Sample Comments	трн т	Code	Sampled Depth	atrix	Sample identification
lab, if received by 4:30pm	lodifie	oer of	ers:	 ₹ 	Sample Custody Seals: Yes No
TAT	d Ex		actor: Pu 5	o WA Correction Factor:	Cooler Custody Seals: Yes No
Zn Acetate+ NaOH: Zn	t	ntai	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	No	Received Intact: (Yes
MeOH: Me		ners	* (Temperature (°C):
None: NC		/Pre	Wet Ice: Kes No	emp Blank: Yes (No)	SAMPLE RECEIPT
HCC: HC		serv	Data Data.		PO#:
H2S04: H2		ative	Die Date:	Christy WIII	Sampler's Name:
HNO3: HN			Routine:		277
Preservative Codes	ANALYSIS REQUEST		2	x 600 7 601	Boilet Name: 11000
		· · · · · · · · · · · · · · · · · · ·		? A	>



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 04.28.2020 11.20.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 659899

Temperature Measuring device used: R9

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

* Must be completed for after-hours deliver	v of samp	oles prior to	placing in the	he refrigerator
made be completed for ditor medic deliver	<i>,</i> 0. 0ap	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	p.aog t.	

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 04.28.2020

Checklist reviewed by: Jessica Warner

Date: 04.28.2020



Certificate of Analysis Summary 659719

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 St. Com #001

Project Id: Contact: 11982

PM

Project Location:

Eddy County, NM

Date Received in Lab: Fri 04.24.2020 11:25

Report Date: 05.01.2020 12:45

Project Manager: Jessica Kramer

	Lab Id:	659719-0	001	659719-0	02	659719-0	03	659719-0	004	659719-0	05	659719-00	06
Analysis Requested	Field Id:	WW1 2	20	WW2 2	20	SW1 140	8	SW2 230	8	SW3 2324	4	NW3 @ 3' 4	32
Analysis Requesieu	Depth:	3- ft		3- ft									
	Matrix:	SOIL		SOIL									
	Sampled:	04.23.2020	00:00	04.23.2020	00:00	04.23.2020	00:00	04.23.2020	00:00	04.23.2020	00:00	04.23.2020 (00:00
BTEX by EPA 8021B	Extracted:	04.30.2020	10:00	04.30.2020	10:00	04.30.2020	10:00	04.30.2020	10:00	04.30.2020	10:00	04.30.2020	10:00
SUB: T104704219-19-21	Analyzed:	05.01.2020	08:13	05.01.2020	08:37	05.01.2020	03:23	05.01.2020	03:47	05.01.2020	04:12	05.01.2020 (09:01
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00908	0.0201	< 0.00794	0.0176	< 0.00906	0.0200	< 0.00854	0.0189	< 0.00828	0.0183	< 0.00775	0.0172
Toluene		< 0.00470	0.0201	< 0.00411	0.0176	< 0.00469	0.0200	< 0.00442	0.0189	< 0.00429	0.0183	< 0.00401	0.0172
Ethylbenzene		< 0.00618	0.0201	< 0.00541	0.0176	< 0.00617	0.0200	< 0.00582	0.0189	< 0.00564	0.0183	< 0.00528	0.0172
m,p-Xylenes		< 0.00685	0.0402	< 0.00599	0.0351	< 0.00683	0.0401	< 0.00645	0.0378	< 0.00625	0.0366	< 0.00585	0.0343
o-Xylene		< 0.00685	0.0201	< 0.00599	0.0176	< 0.00683	0.0200	< 0.00645	0.0189	< 0.00625	0.0183	< 0.00585	0.0172
Total Xylenes		< 0.00685	0.0201	< 0.00599	0.0176	< 0.00683	0.0200	< 0.00645	0.0189	< 0.00625	0.0183	< 0.00585	0.0172
Total BTEX		< 0.00470	0.0201	< 0.00411	0.0176	< 0.00469	0.0200	< 0.00442	0.0189	< 0.00429	0.0183	< 0.00401	0.0172
Chloride by EPA 300	Extracted:	04.24.2020	14:00	04.24.2020	14:00	04.24.2020	14:00	04.24.2020	14:00	04.27.2020	08:15	04.27.2020 (08:15
	Analyzed:	04.25.2020	14:38	04.25.2020	14:45	04.25.2020	14:52	04.25.2020	14:59	04.27.2020	09:02	04.27.2020 (08:47
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		20.3	5.03	25.6	5.00	1540	24.8	3780	25.0	4230	25.1	455	4.99
TPH By SW8015 Mod	Extracted:	04.25.2020	11:00	04.25.2020	11:00	04.25.2020	11:00	04.25.2020	11:00	04.25.2020	11:00	04.25.2020	11:00
	Analyzed:	04.25.2020	18:11	04.25.2020	18:31	04.25.2020	18:53	04.25.2020	19:14	04.25.2020	19:35	04.25.2020	19:57
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	<49.9	49.9	< 50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	146	49.9
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9
Total TPH		< 50.0	50.0	<49.9	49.9	<49.9	49.9	< 50.0	50.0	<50.0	50.0	146	49.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Vramer



Certificate of Analysis Summary 659719

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 St. Com #001

Project Id:

Project Location:

Contact:

11982 PM

Eddy County, NM

Date Received in Lab: Fri 04.24.2020 11:25

Report Date: 05.01.2020 12:45

Project Manager: Jessica Kramer

Lab Id: 659719-007	
Analysis Requested Depth: 3- ft Matrix: SOIL Sampled: 04.23.2020 00:00	
Depth: 3- ft	
Sampled: 04.23.2020 00:00	
PTEV by EDA 9021D	
BTEX by EPA 8021B	
SUB: T104704219-19-21	
Units/RL: mg/kg RL	
Benzene <0.00863 0.0191	
Toluene <0.00447 0.0191	
Ethylbenzene <0.00588 0.0191	
m,p-Xylenes <0.00651 0.0382	
o-Xylene <0.00651 0.0191	
Total Xylenes <0.00651 0.0191	
Total BTEX <0.00447 0.0191	
Chloride by EPA 300	
Analyzed: 04.27.2020 09:08	
Units/RL: mg/kg RL	
Chloride 465 4.97	
TPH By SW8015 Mod	
Analyzed: 04.25.2020 20:18	
Units/RL: mg/kg RL	
Gasoline Range Hydrocarbons (GRO) <49.9 49.9	
Diesel Range Organics (DRO) 121 49.9	
Motor Oil Range Hydrocarbons (MRO) <49.9 49.9	
Total TPH 121 49.9	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Vramer

Jessica Kramer Project Manager



Analytical Report 659719

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Aspen 32 St. Com #001 11982 05.01.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.01.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 659719

Aspen 32 St. Com #001

Project Address: Eddy County, NM

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659719. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659719 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 659719

Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WW1 220	S	04.23.2020 00:00	3 ft	659719-001
WW2 220	S	04.23.2020 00:00	3 ft	659719-002
SW1 1408	S	04.23.2020 00:00	3 ft	659719-003
SW2 2308	S	04.23.2020 00:00	3 ft	659719-004
SW3 2324	S	04.23.2020 00:00	3 ft	659719-005
NW3 @ 3' 432	S	04.23.2020 00:00	3 ft	659719-006
FL9 @ 3' 528	S	04.23.2020 00:00	3 ft	659719-007

Received by OCD: 5/15/2020 1:32:52 PM XENCO

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 St. Com #001

 Project ID:
 11982
 Report Date:
 05.01.2020

 Work Order Number(s):
 659719
 Date Received:
 04.24.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: WW1 220

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-001

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Basis:

Tech: Analyst: CHE CHE

04.24.2020 14:00

% Moisture:

Wet Weight

Seq Number: 3124204

Result **Parameter** Cas Number RLMDL Units **Analysis Date** Dil Flag Chloride 16887-00-6 20.3 5.03 0.864 mg/kg 04.25.2020 14:38 1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

DVM ARM

Date Prep:

04.25.2020 11:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	04.25.2020 18:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	04.25.2020 18:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	04.25.2020 18:11	U	1
Total TPH	PHC635	<50.0	50.0	15.0	mg/kg	04.25.2020 18:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-130	04.25.2020 18:11		
o-Terphenyl		84-15-1	98	%	70-130	04.25.2020 18:11		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: WW1 220 Matrix: Soil

Date Prep:

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-001

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MIT

% Moisture: Basis:

MIT Analyst:

04.30.2020 10:00

Wet Weight

Seq Number: 3124758

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00908	0.0201	0.00908	mg/kg	05.01.2020 08:13	U	1
Toluene	108-88-3	< 0.00470	0.0201	0.00470	mg/kg	05.01.2020 08:13	U	1
Ethylbenzene	100-41-4	< 0.00618	0.0201	0.00618	mg/kg	05.01.2020 08:13	U	1
m,p-Xylenes	179601-23-1	< 0.00685	0.0402	0.00685	mg/kg	05.01.2020 08:13	U	1
o-Xylene	95-47-6	< 0.00685	0.0201	0.00685	mg/kg	05.01.2020 08:13	U	1
Total Xylenes	1330-20-7	< 0.00685	0.0201	0.00685	mg/kg	05.01.2020 08:13	U	1
Total BTEX		< 0.00470	0.0201	0.00470	mg/kg	05.01.2020 08:13	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	77	%	68-120	05.01.2020 08:13	
a,a,a-Trifluorotoluene	98-08-8	86	%	71-121	05.01.2020 08:13	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: WW2 220

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-002

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst: CI

CHE

Date Prep: 04.24.2020 14:00

Basis:

Wet Weight

Seq Number: 3124204

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.6	5.00	0.858	mg/kg	04.25.2020 14:45		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

DVM ARM

Tech:

Analyst:

Date Prep:

04.25.2020 11:00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	r Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	04.25.2020 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	04.25.2020 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	04.25.2020 18:31	U	1
Total TPH	PHC635	<49.9	49.9	15.0	mg/kg	04.25.2020 18:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	84	%	70-130	04.25.2020 18:31		
o-Terphenyl		84-15-1	83	%	70-130	04.25.2020 18:31		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: WW2 220

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-002

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

71-121

Tech: Analyst: MIT MIT

Date Prep: 04.30.2020 10:00

% Moisture:

Basis: Wet Weight

05.01.2020 08:37

Seq Number: 3124758

a,a,a-Trifluorotoluene

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00794	0.0176	0.00794	mg/kg	05.01.2020 08:37	U	1
Toluene	108-88-3	< 0.00411	0.0176	0.00411	mg/kg	05.01.2020 08:37	U	1
Ethylbenzene	100-41-4	< 0.00541	0.0176	0.00541	mg/kg	05.01.2020 08:37	U	1
m,p-Xylenes	179601-23-1	< 0.00599	0.0351	0.00599	mg/kg	05.01.2020 08:37	U	1
o-Xylene	95-47-6	< 0.00599	0.0176	0.00599	mg/kg	05.01.2020 08:37	U	1
Total Xylenes	1330-20-7	< 0.00599	0.0176	0.00599	mg/kg	05.01.2020 08:37	U	1
Total BTEX		< 0.00411	0.0176	0.00411	mg/kg	05.01.2020 08:37	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	78	%	68-120	05.01.2020 08:37		

86

98-08-8



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: SW1 1408 Matrix: Soil Date Received:04.24.2020 11:25

Lab Sample Id: 659719-003

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

Date Prep: 04.24.2020 14:00 Basis:

Wet Weight

Seq Number: 3124204

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	1540	24.8	4.26	mg/kg	04.25.2020 14:52		- 5	-

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

DVM ARM

Tech:

04.25.2020 11:00 Date Prep:

% Moisture: Basis:

Wet Weight

Seq Number: 3124197

Analyst:

Parameter	Cas Number	r Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	04.25.2020 18:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	04.25.2020 18:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	04.25.2020 18:53	U	1
Total TPH	PHC635	<49.9	49.9	15.0	mg/kg	04.25.2020 18:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-130	04.25.2020 18:53		
o-Terphenyl		84-15-1	98	%	70-130	04.25.2020 18:53		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: SW1 1408

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-003

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MIT

% Moisture: Basis:

Analyst: MIT

Seq Number: 3124758

Date Prep:

04.30.2020 10:00

Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00906	0.0200	0.00906	mg/kg	05.01.2020 03:23	U	1
Toluene	108-88-3	< 0.00469	0.0200	0.00469	mg/kg	05.01.2020 03:23	U	1
Ethylbenzene	100-41-4	< 0.00617	0.0200	0.00617	mg/kg	05.01.2020 03:23	U	1
m,p-Xylenes	179601-23-1	< 0.00683	0.0401	0.00683	mg/kg	05.01.2020 03:23	U	1
o-Xylene	95-47-6	< 0.00683	0.0200	0.00683	mg/kg	05.01.2020 03:23	U	1
Total Xylenes	1330-20-7	< 0.00683	0.0200	0.00683	mg/kg	05.01.2020 03:23	U	1
Total BTEX		< 0.00469	0.0200	0.00469	mg/kg	05.01.2020 03:23	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	68-120	05.01.2020 03:23	
a,a,a-Trifluorotoluene	98-08-8	96	%	71-121	05.01.2020 03:23	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: SW2 2308

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-004

Date Collected: 04.23.2020 00:00

04.24.2020 14:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: CHE CHE

Date Prep:

Basis:

Wet Weight

Seq Number: 3124204

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3780	25.0	4.28	mg/kg	04.25.2020 14:59		- 5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 04.25.2020 11:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	04.25.2020 19:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	04.25.2020 19:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	04.25.2020 19:14	U	1
Total TPH	PHC635	<50.0	50.0	15.0	mg/kg	04.25.2020 19:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-130	04.25.2020 19:14		
o-Terphenyl		84-15-1	88	%	70-130	04.25.2020 19:14		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: SW2 2308

Matrix: Soil

Date Prep:

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-004

Date Collected: 04.23.2020 00:00

04.30.2020 10:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MIT

% Moisture:

Analyst: MIT

D :

Basis: Wet Weight SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00854	0.0189	0.00854	mg/kg	05.01.2020 03:47	U	1
Toluene	108-88-3	< 0.00442	0.0189	0.00442	mg/kg	05.01.2020 03:47	U	1
Ethylbenzene	100-41-4	< 0.00582	0.0189	0.00582	mg/kg	05.01.2020 03:47	U	1
m,p-Xylenes	179601-23-1	< 0.00645	0.0378	0.00645	mg/kg	05.01.2020 03:47	U	1
o-Xylene	95-47-6	< 0.00645	0.0189	0.00645	mg/kg	05.01.2020 03:47	U	1
Total Xylenes	1330-20-7	< 0.00645	0.0189	0.00645	mg/kg	05.01.2020 03:47	U	1
Total BTEX		< 0.00442	0.0189	0.00442	mg/kg	05.01.2020 03:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	68-120	05.01.2020 03:47	
a,a,a-Trifluorotoluene	98-08-8	88	%	71-121	05.01.2020 03:47	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: SW3 2324

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-005

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

04.27.2020 08:15

Basis:

Wet Weight

Seq Number: 3124293

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4230	25.1	4.30	mg/kg	04.27.2020 09:02		5

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

Date Prep: 04.25.2020 11:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	04.25.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	04.25.2020 19:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	04.25.2020 19:35	U	1
Total TPH	PHC635	<50.0	50.0	15.0	mg/kg	04.25.2020 19:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-130	04.25.2020 19:35		
o-Terphenyl		84-15-1	96	%	70-130	04.25.2020 19:35		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: SW3 2324

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-005

Date Collected: 04.23.2020 00:00

04.30.2020 10:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MIT

% Moisture:

Analyst: MIT

Date Prep:

70 1/10/15**tare**.

):

Basis:

Wet Weight

Seq Number: 3124758

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00828	0.0183	0.00828	mg/kg	05.01.2020 04:12	U	1
Toluene	108-88-3	< 0.00429	0.0183	0.00429	mg/kg	05.01.2020 04:12	U	1
Ethylbenzene	100-41-4	< 0.00564	0.0183	0.00564	mg/kg	05.01.2020 04:12	U	1
m,p-Xylenes	179601-23-1	< 0.00625	0.0366	0.00625	mg/kg	05.01.2020 04:12	U	1
o-Xylene	95-47-6	< 0.00625	0.0183	0.00625	mg/kg	05.01.2020 04:12	U	1
Total Xylenes	1330-20-7	< 0.00625	0.0183	0.00625	mg/kg	05.01.2020 04:12	U	1
Total BTEX		< 0.00429	0.0183	0.00429	mg/kg	05.01.2020 04:12	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	68-120	05.01.2020 04:12	
a,a,a-Trifluorotoluene	98-08-8	93	%	71-121	05.01.2020 04:12	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: **NW3** @ **3' 432**

Matrix: Soil

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-006

Date Collected: 04.23.2020 00:00

04.27.2020 08:15

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst: CHE

Date Prep:

Basis:

Wet Weight

Seq Number: 3124293

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	455	4.99	0.857	mg/kg	04.27.2020 08:47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 04.25.2020 11:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	04.25.2020 19:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	146	49.9	15.0	mg/kg	04.25.2020 19:57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	04.25.2020 19:57	U	1
Total TPH	PHC635	146	49.9	15.0	mg/kg	04.25.2020 19:57		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-130	04.25.2020 19:57		
o-Terphenyl		84-15-1	93	%	70-130	04.25.2020 19:57		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: NW3 @ 3' 432 Matrix: Soil Date Received:04.24.2020 11:25

Lab Sample Id: 659719-006

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MIT

% Moisture:

MIT Analyst:

Date Prep: 04.30.2020 10:00

Wet Weight Basis:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00775	0.0172	0.00775	mg/kg	05.01.2020 09:01	U	1
Toluene	108-88-3	< 0.00401	0.0172	0.00401	mg/kg	05.01.2020 09:01	U	1
Ethylbenzene	100-41-4	< 0.00528	0.0172	0.00528	mg/kg	05.01.2020 09:01	U	1
m,p-Xylenes	179601-23-1	< 0.00585	0.0343	0.00585	mg/kg	05.01.2020 09:01	U	1
o-Xylene	95-47-6	< 0.00585	0.0172	0.00585	mg/kg	05.01.2020 09:01	U	1
Total Xylenes	1330-20-7	< 0.00585	0.0172	0.00585	mg/kg	05.01.2020 09:01	U	1
Total BTEX		< 0.00401	0.0172	0.00401	mg/kg	05.01.2020 09:01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	83	%	68-120	05.01.2020 09:01		
a,a,a-Trifluorotoluene		98-08-8	92	%	71-121	05.01.2020 09:01		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: FL9 @ 3' 528 Lab Sample Id: 659719-007

Matrix: Soil Date Received:04.24.2020 11:25

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep: 04.27.2020 08:15 Basis:

Wet Weight

Seq Number: 3124293

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	465	4.97	0.853	mg/kg	04.27.2020 09:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep:

04.25.2020 11:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	04.25.2020 20:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	121	49.9	15.0	mg/kg	04.25.2020 20:18		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	04.25.2020 20:18	U	1
Total TPH	PHC635	121	49.9	15.0	mg/kg	04.25.2020 20:18		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-130	04.25.2020 20:18		
o-Terphenyl		84-15-1	94	%	70-130	04.25.2020 20:18		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 St. Com #001

Sample Id: **FL9** @ **3' 528**

Matrix: Soil

Date Prep:

Date Received:04.24.2020 11:25

Lab Sample Id: 659719-007

Date Collected: 04.23.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MIT MIT

04.30.2020 10:00 Basis:

Wet Weight

Seq Number: 3124758

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00863	0.0191	0.00863	mg/kg	05.01.2020 05:47	U	1
Toluene	108-88-3	< 0.00447	0.0191	0.00447	mg/kg	05.01.2020 05:47	U	1
Ethylbenzene	100-41-4	< 0.00588	0.0191	0.00588	mg/kg	05.01.2020 05:47	U	1
m,p-Xylenes	179601-23-1	< 0.00651	0.0382	0.00651	mg/kg	05.01.2020 05:47	U	1
o-Xylene	95-47-6	< 0.00651	0.0191	0.00651	mg/kg	05.01.2020 05:47	U	1
Total Xylenes	1330-20-7	< 0.00651	0.0191	0.00651	mg/kg	05.01.2020 05:47	U	1
Total BTEX		< 0.00447	0.0191	0.00447	mg/kg	05.01.2020 05:47	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
4-Bromofluorobenzene	460-00-4	83	%	68-120	05.01.2020 05:47	
a,a,a-Trifluorotoluene	98-08-8	86	%	71-121	05.01.2020 05:47	



Flagging Criteria

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

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

Matrix Spike

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS

MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 659719



Etech Environmental & Safety Solution, Inc

Aspen 32 St. Com #001

					Aspe	n 32 St. (Com #0	001					
Analytical Method: Seq Number:	3124204		00		Matrix:	Solid 7702011-1	1 DVC			rep Methodate Pr	ep: 04.2	0P 24.2020 2011-1-BSD	
MB Sample Id:	7702011-1-1	MB	Spike	LCS Sai	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec	Limits	70KI D	Limit	Cints	Date	Flag
Chloride		<5.00	250	250	100	252	101	90-110	1	20	mg/kg	04.25.2020 11:24	
Analytical Method:	•	y EPA 30	00			a 11.1			Pr	ep Meth			
Seq Number: MB Sample Id:	3124293 7702110-1-1	BLK			Matrix:	7702110-1	1-BKS		LCSI	Date Pr D Sample	-	27.2020 2110-1-BSD	
Parameter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<5.00	250	229	92	233	93	90-110	2	20	mg/kg	04.27.2020 08:36	
Analytical Method:	•	y EPA 30	00						Pr	ep Meth			
Seq Number:	3124204				Matrix:	Soil 659717-00	01 C		MCI	Date Pr	-	24.2020 717-001 SD	
Parent Sample Id:	659717-001	Parent	Spike	MS MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec	Limits	/UKI D	Limit	Cints	Date	Flag
Chloride		85.2	252	352	106	350	105	90-110	1	20	mg/kg	04.25.2020 11:44	
Analytical Method:	Chloride by 3124204	y EPA 30	00		Matrix:	Soil			Pr	ep Meth Date Pr			
Seq Number: Parent Sample Id:	659717-005					659717-00	05 S		MSI		-	24.2020 717-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		893	250	1120	91	1120	91	90-110	0	20	mg/kg	04.25.2020 13:36	
Analytical Method:	·	y EPA 30	00							ep Meth			
Seq Number: Parent Sample Id:	3124293 659719-006				Matrix:	Soil 659719-00	06 S				ep: 04.2 e Id: 659	27.2020 719-006 SD	
Parameter Parameter	037/17-000	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		455	250	706	100	696	96	90-110	1	20	mg/kg	04.28.2020 04:48	
Analytical Method: Seq Number:	Chloride by 3124293	y EPA 30	00		Matrix:	Soil			Pr	ep Meth Date Pr		00P 27.2020	
Parent Sample Id:	659730-003			MS Sa	mple Id:	659730-00	03 S		MSI	D Sample	e Id: 659	730-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag

Flag



QC Summary 659719

Etech Environmental & Safety Solution, Inc

Aspen 32 St. Com #001

Analytical Method: TPH By SW8015 Mod

Seg Number: 3124197 MB Sample Id:

7702067-1-BLK

Matrix: Solid LCS Sample Id: 7702067-1-BKS

SW8015P Prep Method:

Date Prep:

04.25.2020 LCSD Sample Id: 7702067-1-BSD

RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) 1000 910 91 20 04.25.2020 11:49 < 50.0 962 96 70-130 6 mg/kg 970 1000 04.25.2020 11:49 Diesel Range Organics (DRO) 1000 97 70-130 3 20 mg/kg < 50.0 100

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 04.25.2020 11:49 1-Chlorooctane 86 104 109 70-130 % 04.25.2020 11:49 o-Terphenyl 92 109 111 70-130 %

Analytical Method: TPH By SW8015 Mod

Seq Number:

3124197

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 04.25.2020

MB Sample Id: 7702067-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

< 50.0

Units

Analysis Date

Flag

Flag

Flag

04.25.2020 11:28 mg/kg

Analytical Method: TPH By SW8015 Mod

Seq Number: Parent Sample Id: 3124197

Matrix: Soil 659717-003 MS Sample Id: 659717-003 S Prep Method:

SW8015P

Date Prep: 04.25.2020 MSD Sample Id: 659717-003 SD

Parent Spike MS MS %RPD RPD MSD MSD Limits Units Analysis **Parameter** Result Limit Amount Result %Rec Result %Rec Date 04.25.2020 12:53 Gasoline Range Hydrocarbons (GRO) <49.9 997 953 96 977 98 70-130 2 20 mg/kg 04.25.2020 12:53 Diesel Range Organics (DRO) <49.9 997 934 94 1010 101 70-130 8 20 mg/kg

MSMS MSD Units Analysis MSD Limits Surrogate %Rec Flag Flag Date %Rec 04.25.2020 12:53 1-Chlorooctane 98 97 70-130 % 04.25.2020 12:53 101 o-Terphenyl 95 70-130 %

Analytical Method: BTEX by EPA 8021B

Seq Number: 3124758

MB Sample Id: 7702424-1-BLK

Matrix: Solid LCS Sample Id:

7702424-1-BKS

Prep Method: Date Prep:

SW5035A

04.30.2020

LCSD Sample Id: 7702424-1-BSD

Spike LCS %RPD RPD MB LCS Units Limits Analysis LCSD LCSD Parameter Result Amount Result %Rec Limit Date %Rec Result 04.30.2020 21:19 Benzene 1.90 95 1.94 55-120 2 20 < 0.00904 97 mg/kg mg/kg 04.30.2020 21:19 Toluene < 0.00468 2.00 1.89 95 1.91 96 77-120 1 20 20 04.30.2020 21:19 91 1.81 91 Ethylbenzene < 0.00616 2.00 1.82 77-120 1 mg/kg 04.30.2020 21:19 91 m,p-Xylenes < 0.00682 4.00 3.64 3.68 92 78-120 1 20 mg/kg 04.30.2020 21:19 o-Xylene < 0.00682 2.00 1.84 92 1.88 94 78-120 2 20 mg/kg

MB LCS LCS LCSD Limits Units MB **Analysis** LCSD Surrogate %Rec Flag %Rec Flag Flag Date %Rec 04.30.2020 21:19 4-Bromofluorobenzene 94 81 82 68-120 % 04.30.2020 21:19 a.a.a-Trifluorotoluene 98 88 71-121 85 %

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

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

04.30.2020 23:44

04.30.2020 23:44

QC Summary 659719



4-Bromofluorobenzene

a,a,a-Trifluorotoluene

Etech Environmental & Safety Solution, Inc

Aspen 32 St. Com #001

91

99

68-120

71-121

Analytical Method: BTEX by EPA 8021B SW5035A Prep Method: Seq Number: 3124758 Matrix: Soil Date Prep: 04.30.2020

MS Sample Id: 659717-003 S Parent Sample Id: 659717-003 MSD Sample Id: 659717-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00886	1.96	1.74	89	1.57	88	54-120	10	25	mg/kg	04.30.2020 23:44	
Toluene	< 0.00459	1.96	1.72	88	1.56	88	57-120	10	25	mg/kg	04.30.2020 23:44	
Ethylbenzene	< 0.00604	1.96	1.62	83	1.49	84	58-131	8	25	mg/kg	04.30.2020 23:44	
m,p-Xylenes	< 0.00669	3.92	3.30	84	3.04	86	62-124	8	25	mg/kg	04.30.2020 23:44	
o-Xylene	< 0.00669	1.96	1.65	84	1.52	85	62-124	8	25	mg/kg	04.30.2020 23:44	
Surrogate			M %I		MS Flag	MSD %Re			imits	Units	Analysis Date	

89

98



City, State ZIP:

Lovington, NM, 88260

Address:

Bill to: (if different) Company Name:

Address: Company Name:

Etech Environmental & Safety 3100 Plains Highway

Project Manager:

Joel Lowry

Chain of Custody

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

Work Order No: USG 719

ANALYSIS REQUEST Preservative Codes HNO3: HN H2S04: H2 HCL: HL None: NO NaOH: Na MeOH: Me Zn Acetate+ NaOH: Zn TAT starts the day received by the lab, if received by 4:30pm Sample Comments
Sample Comments
Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Ni Se Ag Tl U 1631 / 245.1 / 7470 / 77471 : Hg
of service. Aenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.
ure) Redeived by: (Signature) Date/Time
Revised Detection 19 Transports

Work Order Comments

www.xenco.com

State of Project:

Lubbock

IOS Number : **62799**

Date/Time: 04.28.2020

Lab# From: Midland

Lab# To:

Created by:

Air Bill No.:

Delivery Priority:

Allison Johnson

770342225205

Please send report to: Jessica Kramer

Address:

1211 W. Florida Ave

E-Mail:

jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
659719-001	S	WW1 220	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	
659719-002	S	WW2 220	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	
659719-003	S	SW1 1408	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	
659719-004	S	SW2 2308	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	
659719-005	S	SW3 2324	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	
659719-006	S	NW3 @ 3' 432	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	
659719-007	S	FL9 @ 3' 528	04.23.2020 00:00	SW8021B	BTEX by EPA 8021B	04.30.2020	05.07.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:

Allison Johnson

Date Relinquished: 04.28.2020

Received By:

Ashley Derstine

Date Received:

04.29.2020

Cooler Temperature: 3.8



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist



Sent To: Lubbock IOS #: 62799

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date: 04.29.2020

Temperature Measuring device used :

PM

Sent By:	Allison Johnson	Date Sent:	04.28.2020 03.56
Received By:	Johnny Grindstaff	Date Received:	04.29.2020 08.15

Checklist reviewed by:

Received By: Johnny Grindstaff	Date Received: 04.29.2020	08.15 PM	
	Sample Receipt Check	dist	Comments
#1 *Temperature of cooler(s)?		3.77	
#2 *Shipping container in good con	dition?	Yes	
#3 *Samples received with appropr	iate temperature?	Yes	
#4 *Custody Seals intact on shipping	ng container/ cooler?	Yes	
#5 *Custody Seals Signed and date	ed for Containers/coolers	Yes	
#6 *IOS present?		Yes	
#7 Any missing/extra samples?		No	
#8 IOS agrees with sample label(s)	/matrix?	Yes	
#9 Sample matrix/ properties agree	with IOS?	Yes	
#10 Samples in proper container/ b	ottle?	Yes	
#11 Samples properly preserved?		Yes	
#12 Sample container(s) intact?		Yes	
#13 Sufficient sample amount for ir	ndicated test(s)?	Yes	
#14 All samples received within ho	d time?	No	
* Must be completed for after-hour	s delivery of samples prior to pla	acing in the refrigerator	
NonConformance:			
Corrective Action Taken:			
	Nonconformance Docu	ımentation	
Contact:	Contacted by :	Dat	e:

Ashley Derstine

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 04.24.2020 11.25.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 659719

Temperature Measuring device used: R9

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

* Must be completed for after-hours deliver	v of samp	oles prior to	placing in the	he refrigerator
made be completed for ditor medic deliver	<i>,</i> 0. 0ap	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	p.aog t.	

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 04.24.2020

Checklist reviewed by: Jessica Vramer

Date: 04.24.2020



Certificate of Analysis Summary 659440

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 State Com #001

Project Id:

Contact:

11982

PM

Report Date: 04.23.2020 17:06

Date Received in Lab: Wed 04.22.2020 11:05

Eddy Co,NM **Project Location:**

Project Manager: Jessica Kramer

	Lab Id:	659440-0	001	659440-00	02	659440-0	003	659440-0	004	659440-0	05	
Analysis Requested	Field Id:	FL4 @	4'	FL5 @ 4'		FL6 @ 1'		FL7 @ 1'		FL8 @ 1'		
Anaiysis Requesieu	Depth:	4- ft	4- ft			1- ft		1- ft		1- ft		
	Matrix:	SOIL	SOIL			SOIL		SOIL	,	SOIL		
	Sampled:	04.21.2020	00:00	04.21.2020 (00:00	04.21.2020	00:00	04.21.2020	00:00	04.21.2020	00:00	
BTEX by EPA 8021B	Extracted:	04.22.2020	16:00	04.22.2020	16:00	04.22.2020	16:00	04.22.2020	16:00	04.22.2020	16:00	
	Analyzed:	04.22.2020	19:13	04.22.2020	19:33	04.22.2020	19:54	04.22.2020	20:14	04.22.2020	20:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	
Toluene		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	
Ethylbenzene		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	
m,p-Xylenes		< 0.00398	0.00398	< 0.00403	0.00403	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00396	0.00396	
o-Xylene		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	
Total Xylenes		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	
Total BTEX		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	
Chloride by EPA 300	Extracted:	04.22.2020	14:10	04.22.2020	14:10	04.22.2020	14:10	04.22.2020	14:10	04.22.2020	14:10	
	Analyzed:	04.23.2020	12:01	04.23.2020	12:06	04.23.2020	12:12	04.23.2020	12:17	04.23.2020	12:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		1300	24.9	1710	24.8	2250	25.2	1350	25.0	2830	25.1	
TPH By SW8015 Mod	Extracted:	04.22.2020	14:00	04.22.2020	14:00	04.22.2020	14:00	04.22.2020	14:00	04.22.2020	14:00	
	Analyzed:	04.22.2020	18:20	04.22.2020 1	18:41	04.22.2020	19:03	04.22.2020	19:24	04.22.2020	19:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8	
Diesel Range Organics (DRO)		<49.9	49.9	< 50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8	
Total TPH		<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer



Analytical Report 659440

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Aspen 32 State Com #001 11982 04.23.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



04.23.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 659440

Aspen 32 State Com #001 Project Address: Eddy Co,NM

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659440. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659440 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 659440

Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL4 @ 4'	S	04.21.2020 00:00	4 ft	659440-001
FL5 @ 4'	S	04.21.2020 00:00	4 ft	659440-002
FL6 @ 1'	S	04.21.2020 00:00	1 ft	659440-003
FL7 @ 1'	S	04.21.2020 00:00	1 ft	659440-004
FL8 @ 1'	S	04.21.2020 00:00	1 ft	659440-005

Page 126 of 187

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 State Com #001

Project ID: Report Date: 04.23.2020 11982 Work Order Number(s): 659440 Date Received: 04.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL4 @ 4' Matrix: Soil

Result

1300

Cas Number

16887-00-6

Date Received:04.22.2020 11:05

Lab Sample Id: 659440-001

Date Collected: 04.21.2020 00:00

RL

24.9

Sample Depth: 4 ft

Analysis Date

04.23.2020 12:01

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst:

Parameter

Chloride

CHE CHE

Basis:

Units

mg/kg

% Moisture:

Seq Number: 3123933

Date Prep:

04.22.2020 14:10

Flag

Dil

5

Wet Weight

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM Date Prep: 04.22.2020 14:00

Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.22.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.22.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.22.2020 18:20	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.22.2020 18:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-130	04.22.2020 18:20		
o-Terphenyl		84-15-1	81	%	70-130	04.22.2020 18:20		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL4 @ 4' Matrix: Soil Date Received:04.22.2020 11:05

Lab Sample Id: 659440-001

Date Collected: 04.21.2020 00:00

Sample Depth: 4 ft

04.22.2020 19:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL

% Moisture:

KTL

Date Prep: 04.22.2020 16:00 Basis:

70-130

Wet Weight

Seq Number: 3123941

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.22.2020 19:13	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.22.2020 19:13	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.22.2020 19:13	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.22.2020 19:13	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.22.2020 19:13	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.22.2020 19:13	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.22.2020 19:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	04.22.2020 19:13		

111

460-00-4



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL5 @ 4' Matrix: Soil Date Received:04.22.2020 11:05

Lab Sample Id: 659440-002

Date Collected: 04.21.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep:

04.22.2020 14:10

Basis:

Wet Weight

Seq Number: 3123933

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1710	24.8	mg/kg	04.23.2020 12:06		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

Date Prep: 04.22.2020 14:00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	04.22.2020 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.22.2020 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.22.2020 18:41	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	04.22.2020 18:41	U	1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	77	%	70-130	04.22.2020 18:41
o-Terphenyl	84-15-1	79	%	70-130	04.22.2020 18:41



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL5 @ 4'

Matrix: Soil Date Received:04.22.2020 11:05

Lab Sample Id: 659440-002

Date Collected: 04.21.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL

KTL

Date Prep: 04.22.2020 16:00

% Moisture: Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.22.2020 19:33	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.22.2020 19:33	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.22.2020 19:33	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.22.2020 19:33	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.22.2020 19:33	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.22.2020 19:33	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.22.2020 19:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.22.2020 19:33		
4-Bromofluorobenzene		460-00-4	108	%	70-130	04.22.2020 19:33		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL6 @ 1'

Matrix: Soil

Date Received:04.22.2020 11:05

Lab Sample Id: 659440-003

Date Collected: 04.21.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst: CHE

Date Prep: 04.22.2020 14:10

Basis:

Wet Weight

Seq Number: 3123933

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2250	25.2	mg/kg	04.23.2020 12:12		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

Date Prep: 04.22.2020 14:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.22.2020 19:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.22.2020 19:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.22.2020 19:03	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	04.22.2020 19:03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-130	04.22.2020 19:03		
o-Terphenyl		84-15-1	79	%	70-130	04.22.2020 19:03		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL6 @ 1' Matrix: Soil Date Received:04.22.2020 11:05

Lab Sample Id: 659440-003

Date Collected: 04.21.2020 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

KTL

% Moisture:

Analyst:

KTL

Date Prep: 04.22.2020 16:00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.22.2020 19:54	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.22.2020 19:54	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.22.2020 19:54	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.22.2020 19:54	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.22.2020 19:54	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.22.2020 19:54	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.22.2020 19:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	04.22.2020 19:54		
4 D CL 1		160.00.1	114	0/	70 120	04 22 2020 10 54		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.22.2020 19:54	
4-Bromofluorobenzene	460-00-4	114	%	70-130	04.22.2020 19:54	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL7 @ 1'

Matrix: Soil

Date Received:04.22.2020 11:05

Lab Sample Id: 659440-004

Date Collected: 04.21.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: CHE CHE

Date Prep:

04.22.2020 14:10 Ba

Basis:

Wet Weight

Seq Number: 3123933

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1350	25.0	mg/kg	04.23.2020 12:17		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.22.2020 14:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.22.2020 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.22.2020 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.22.2020 19:24	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.22.2020 19:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-130	04.22.2020 19:24		
o-Terphenyl		84-15-1	80	%	70-130	04.22.2020 19:24		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL7 @ 1' Matrix: Soil Date Received:04.22.2020 11:05

Lab Sample Id: 659440-004

Date Collected: 04.21.2020 00:00

Sample Depth: 1 ft

04.22.2020 20:14

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

KTL

% Moisture:

Analyst:

KTL

Date Prep: 04.22.2020 16:00 Basis:

70-130

Wet Weight

Seq Number: 3123941

4-Bromofluorobenzene

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.22.2020 20:14	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.22.2020 20:14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.22.2020 20:14	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.22.2020 20:14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.22.2020 20:14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.22.2020 20:14	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.22.2020 20:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	:	540-36-3	111	%	70-130	04.22.2020 20:14		

112

460-00-4



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL8 @ 1'

Matrix: Soil

Date Received:04.22.2020 11:05

Lab Sample Id: 659440-005

Date Collected: 04.21.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: CHE CHE

Date Prep:

04.22.2020 14:10

Basis:

Wet Weight

Seq Number: 3123933

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2830	25.1	mg/kg	04.23.2020 12:33		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.22.2020 14:00

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	04.22.2020 19:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	04.22.2020 19:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	04.22.2020 19:45	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	04.22.2020 19:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	80	%	70-130	04.22.2020 19:45		
o-Terphenyl		84-15-1	79	%	70-130	04.22.2020 19:45		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL8 @ 1' Matrix: Soil Date Received:04.22.2020 11:05

Lab Sample Id: 659440-005

Date Collected: 04.21.2020 00:00

04.22.2020 16:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: KTL KTL

Date Prep:

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.22.2020 20:34	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.22.2020 20:34	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.22.2020 20:34	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	04.22.2020 20:34	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.22.2020 20:34	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.22.2020 20:34	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.22.2020 20:34	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.22.2020 20:34	
4-Bromofluorobenzene	460-00-4	109	%	70-130	04.22.2020 20:34	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



659440 **QC Summary**

Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

245

Analytical Method: Chloride by EPA 300

3123933 Seq Number:

Matrix: Solid 7701796-1-BLK

Spike

250

Spike

253

Amount

Amount

E300P Prep Method:

Date Prep: 04.22.2020

MB Sample Id:

LCS Sample Id: 7701796-1-BKS

%Rec

100

LCSD Sample Id: 7701796-1-BSD

RPD

Limit

20

Parameter

Chloride

MB Result LCS LCS

Result

249

LCSD LCSD Result %Rec

98

Limits %RPD

2

%RPD

Units Analysis Date

Flag

< 5.00

90-110

mg/kg

04.23.2020 11:35

Analytical Method: Chloride by EPA 300

3123933

Matrix: Soil

Prep Method: Date Prep:

E300P

04.22.2020

Seq Number: Parent Sample Id:

659506-001

659506-001 S MS Sample Id:

MSD Sample Id: 659506-001 SD

Parameter

Parent Result

MS MS Result %Rec

MSD Result

MSD Limits %Rec

RPD Units Limit

Analysis

Chloride

348

625 109

Matrix: Soil

98 90-110

20 5

mg/kg

Flag Date 04.23.2020 11:51

Analytical Method: Chloride by EPA 300

3123933

41.8

86

Prep Method:

E300P

Date Prep:

04.22.2020

Parent Sample Id:

Seq Number:

659506-006

MS Sample Id:

301

659506-006 S

596

%RPD Limite

MSD Sample Id: 659506-006 SD **RPD**

Units

04.23.2020 13:04

Parameter Chloride

Parent Result

Spike Amount

249

MS MS Result %Rec

MSD Result 296

%Rec 102 90-110

MSD

Limit 2 20

mg/kg

Analysis Flag Date

3123892

Analytical Method: TPH By SW8015 Mod

104

Prep Method:

SW8015P

Seg Number:

7701762-1-BLK

Matrix: Solid

Date Prep:

04.22.2020

MB Sample Id: LCS Sample Id: 7701762-1-BKS RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis

73

LCSD Sample Id: 7701762-1-BSD

Analysis

Date

04.22.2020 11:15

Parameter Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 04.22.2020 11:15 70-130 20 < 50.0 1000 835 84 806 81 4 mg/kg 04.22.2020 11:15 Diesel Range Organics (DRO) 877 88 823 82 70-130 20 < 50.0 1000 6 mg/kg

LCS MBMB LCS LCSD Limits Units LCSD **Surrogate** %Rec %Rec Flag Flag Flag %Rec 04.22.2020 11:15 1-Chlorooctane 85 80 73 70-130 %

78

Analytical Method: TPH By SW8015 Mod 3123892

Matrix: Solid

MB Sample Id: 7701762-1-BLK

70-130

Prep Method:

SW8015P

04.22.2020

Flag

Parameter

Seq Number:

o-Terphenyl

MBResult

Date Prep:

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

Units mg/kg

%

Analysis Date 04.22.2020 10:54

Flag

Flag

SW8015P

SW5035A

SW5035A

Prep Method:

Prep Method:





Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

Analytical Method:	TPH By SW8015 Mod
--------------------	-------------------

Prep Method: Seq Number: 3123892 Matrix: Soil Date Prep: 04.22.2020 MS Sample Id: 659369-001 S MSD Sample Id: 659369-001 SD Parent Sample Id: 659369-001

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.8 996 844 85 9 20 04.22.2020 12:19 921 92 70-130 mg/kg 04.22.2020 12:19 70-130 8 20 Diesel Range Organics (DRO) <49.8 996 867 87 937 mg/kg 94

MSD MS MS MSD Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 04.22.2020 12:19 1-Chlorooctane 85 93 70-130 % 04.22.2020 12:19 o-Terphenyl 87 94 70-130 %

Analytical Method: BTEX by EPA 8021B

3123941 Seq Number: Matrix: Solid Date Prep: 04.22.2020 LCS Sample Id: 7701907-1-BKS LCSD Sample Id: 7701907-1-BSD MB Sample Id: 7701907-1-BLK

RPD MB Spike LCS LCS LCSD Limits %RPD Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 04.22.2020 16:50 < 0.00200 0.100 0.0838 84 0.0924 70-130 10 35 Benzene 92 mg/kg 04.22.2020 16:50 Toluene < 0.00200 0.100 0.0816 82 0.0881 88 70-130 8 35 mg/kg 04.22.2020 16:50 Ethylbenzene < 0.00200 0.100 0.0823 82 0.0882 88 70-130 7 35 mg/kg 04.22.2020 16:50 m,p-Xylenes < 0.00400 0.200 0.160 80 0.172 86 70-130 7 35 mg/kg

o-Xylene	< 0.00200	0.100	0.0834	83	0.0897	90 7	0-130	7	35	mg/kg	04.22.2020 16:50
Surrogate	MB %Rec	MB Flag	LCS %Rec		CS lag	LCSD LCSD %Rec Flag		Limits		Units	Analysis Date
1,4-Difluorobenzene	105		100			103		7	0-130	%	04.22.2020 16:50
4-Bromofluorobenzene	105		98			99		7	0-130	%	04.22.2020 16:50

Analytical Method: BTEX by EPA 8021B

Seg Number: 3123941 Matrix: Soil Date Prep: 04.22.2020 Parent Sample Id: 659440-001 MS Sample Id: 659440-001 S MSD Sample Id: 659440-001 SD

RPD Parent Spike MS MS MSD MSD Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 04.22.2020 17:31 < 0.00200 0.0998 0.0923 92 0.0909 92 70-130 2 35 Benzene mg/kg 04.22.2020 17:31 88 70-130 2 35 Toluene < 0.00200 0.0998 0.0875 0.0858 87 mg/kg Ethylbenzene < 0.00200 0.0998 0.0879 88 0.0866 87 70-130 1 35 04.22.2020 17:31 mg/kg 2 35 04.22.2020 17:31 m,p-Xylenes < 0.00399 0.200 0.171 86 0.168 85 70-130 mg/kg < 0.00200 0.0998 0.0897 90 0.0878 70-130 2 35 04.22.2020 17:31 o-Xylene 89 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		103		70-130	%	04.22.2020 17:31
4-Bromofluorobenzene	98		97		70-130	%	04.22.2020 17:31

MS = Matrix Spike



Chain of Custody

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

Atlanta, GA (770) 449-8800

www.xenco.com

6	TERESA HYMENDAYER 4/21/2020 2 TERESA HYMEN	Received by: (Signature) Date/Time Relinquished by: (Signat	Vocice: Signature or this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	Al Sh As Ba Ba B CA Ca Ca Ca Ca Ea			X X X X X X X X X X X X X X X X X X X	1, 12 X X X X X X X X X X X X X X X X X X	1,	801) N. M. J. M. J	51 4.0.20 4' Ize X X	Matrix Sampled Sampled Depth E de L	Total Containers:	No WA Correction Factor: C 5 C C C	2	Thermometer (D)	Tempp Blank: Yes (No) Wet Ice: (Yes) No &		Due Date:	M	Ro	State Con #00/ Turn Around ANALYSIS REQUEST	Email: joel@etechenv.com, lance@etechenv.com	City, State ZIP:	3100 Plains Hwy Address:	Etech Environmental Company Name: (2/1/22/1)
Revised Delator 49 Rev. 2019.1	are WIN	ture) Received by: (Signature)	I terms and conditions ices beyond the control viously negotiated.	Form g Min Mo Ni K. Se Ag SiO2 Na Sr II Sn U V Zn lo Ni Se Ag Ti U 1631/245.1/7470/747	S A- SSS N-								Sample Comments	lab, if received by 4:30pm	TAT starts the As	Zn Acetate+ NaOH: Zn	MeOH: Me	NaOH: Na	None: NO	HCL: HL	H2S04: H2	HNO3: HN	ST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting:Level I Level I PST/US TRRI Level I	State of Project:	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order #: 659440

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.22.2020 11.05.00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R9

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

' Must be completed for after-hour	s delivery of	f samples prio	r to placing in	the refrigerator

Analyst:

Checklist completed by:

PH Device/Lot#:

Date: 04.22.2020

Checklist reviewed by: Jessica Vramer

Date: 04.22.2020



Certificate of Analysis Summary 659139

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 State Com #001

Project Id: Contact: 11982

Joel Lowry

Project Location:

Ed Co, NM

Date Received in Lab: Fri 04.17.2020 11:15

Report Date: 04.22.2020 15:50

Project Manager: Jessica Kramer

	Lab Id:	659139-0	001	659139-0	002	659139-0	003	659139-0	004	
Analysis Requested	Field Id:	FL3 @	4	SW1		NW1b		NW2b		
Anaiysis Requesieu	Depth:	4- ft								
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	
	Sampled:	04.16.2020 00:00		04.16.2020 00:00		04.16.2020 00:00		04.16.2020	00:00	
BTEX by EPA 8021B	Extracted:	04.20.2020	15:45	04.20.2020 15:45		04.20.2020 15:45		04.20.2020	15:45	
	Analyzed:	04.20.2020	23:49	04.21.2020	01:08	04.21.2020	01:28	04.21.2020	01:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	
Toluene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	
Ethylbenzene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	
m,p-Xylenes		< 0.00399	0.00399	< 0.00397	0.00397	< 0.00396	0.00396	< 0.00399	0.00399	
o-Xylene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	
Total Xylenes		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	
Total BTEX		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	04.17.2020 17:30		04.17.2020 17:30		04.17.2020 17:30		04.17.2020 17:30		
	Analyzed:	04.17.2020	20:19	04.17.2020	20:25	04.17.2020	20:30	04.17.2020	20:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		2500	25.2	2720	25.1	5.33	5.00	< 5.00	5.00	
TPH By SW8015 Mod	Extracted:	04.21.2020	16:00	04.21.2020 16:00		04.21.2020	16:00	04.21.2020	16:00	
	Analyzed:	04.22.2020	00:16	04.22.2020	01:12	04.22.2020	01:31	04.22.2020	01:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	
Diesel Range Organics (DRO)		<50.0	50.0	890	50.0	< 50.0	50.0	<49.9	49.9	
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	201	50.0	< 50.0	50.0	<49.9	49.9	
Total TPH		< 50.0	50.0	1090	50.0	< 50.0	50.0	<49.9	49.9	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Analytical Report 659139

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Aspen 32 State Com #001 11982 04.22.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



04.22.2020

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 659139

Aspen 32 State Com #001 Project Address: Ed Co, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659139. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659139 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

XENCO

Sample Cross Reference 659139

Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL3 @ 4	S	04.16.2020 00:00	4 ft	659139-001
SW1	S	04.16.2020 00:00	N/A	659139-002
NW1b	S	04.16.2020 00:00	N/A	659139-003
NW2b	S	04.16.2020 00:00	N/A	659139-004

Page 146 of 187

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 State Com #001

Project ID: Report Date: 04.22.2020 11982 Work Order Number(s): 659139 Date Received: 04.17.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL3 @ 4 Matrix: Soil Date Received:04.17.2020 11:15

Lab Sample Id: 659139-001

Date Collected: 04.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

SPC

% Moisture:

Analyst:

SPC

Date Prep: 04.17.2020 17:30

Basis:

Wet Weight

Seq Number: 3123414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2500	25.2	mg/kg	04.17.2020 20:19		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

04.21.2020 16:00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	04.22.2020 00:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.22.2020 00:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.22.2020 00:16	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	04.22.2020 00:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	87	%	70-130	04.22.2020 00:16
o-Terphenyl	84-15-1	91	%	70-130	04.22.2020 00:16



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL3 @ 4

Matrix: Soil

Date Received:04.17.2020 11:15

Lab Sample Id: 659139-001

Date Collected: 04.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst: KTL

Date Prep:

04.20.2020 15:45 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.20.2020 23:49	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.20.2020 23:49	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.20.2020 23:49	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.20.2020 23:49	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.20.2020 23:49	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.20.2020 23:49	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.20.2020 23:49	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4 D (1 1	4	co oo 1	0.0	0/	70 120	04 20 2020 22 40		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	04.20.2020 23:49	
1,4-Difluorobenzene	540-36-3	100	%	70-130	04.20.2020 23:49	



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id:

SW1

Matrix: Soil Date Received:04.17.2020 11:15

Lab Sample Id: 659139-002

Date Collected: 04.16.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: SPC

SPC

Date Prep: 04.17.2020 17:30 Basis:

Wet Weight

Seq Number: 3123414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2720	25.1	mg/kg	04.17.2020 20:25		5

Analytical Method: TPH By SW8015 Mod

DVM

Tech:

Analyst: ARM Seq Number: 3123736 Date Prep:

04.21.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.22.2020 01:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	890	50.0		mg/kg	04.22.2020 01:12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	201	50.0		mg/kg	04.22.2020 01:12		1
Total TPH	PHC635	1090	50.0		mg/kg	04.22.2020 01:12		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

1-Chlorooctane 111-85-3 70-130 $04.22.2020\ 01:12$ o-Terphenyl 84-15-1 111 70-130 $04.22.2020\ 01:12$



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id:

SW1

Matrix:

Date Received:04.17.2020 11:15

Lab Sample Id: 659139-002

Soil Date Collected: 04.16.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL KTL

% Moisture:

Analyst:

Date Prep:

04.20.2020 15:45

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.21.2020 01:08	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.21.2020 01:08	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.21.2020 01:08	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	04.21.2020 01:08	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.21.2020 01:08	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.21.2020 01:08	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.21.2020 01:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	:	540-36-3	94	%	70-130	04.21.2020 01:08		
4-Bromofluorobenzene	4	460-00-4	87	%	70-130	04.21.2020 01:08		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id:

NW1b

Matrix:

Soil

Date Received:04.17.2020 11:15

Lab Sample Id: 659139-003

Date Collected: 04.16.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: Analyst: SPC SPC

Date Prep:

04.17.2020 17:30

Basis:

Wet Weight

Seq Number: 3123414

Parameter Result Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 5.33 5.00 mg/kg 04.17.2020 20:30 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.21.2020 16:00

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.22.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.22.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.22.2020 01:31	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	04.22.2020 01:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-130	04.22.2020 01:31		
o-Terphenyl		84-15-1	94	%	70-130	04.22.2020 01:31		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id:

NW1b

Matrix:

Soil

Date Received:04.17.2020 11:15

Lab Sample Id: 659139-003

Date Collected: 04.16.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

KTL

% Moisture:

Tech: Analyst:

KTL

Date Prep: 04.20.2020 15:45 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.21.2020 01:28	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.21.2020 01:28	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.21.2020 01:28	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	04.21.2020 01:28	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.21.2020 01:28	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.21.2020 01:28	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.21.2020 01:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	04.21.2020 01:28		
4-Bromofluorobenzene		460-00-4	87	%	70-130	04.21.2020 01:28		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id:

NW2b

Matrix:

Date Received:04.17.2020 11:15

Lab Sample Id: 659139-004

Soil Date Collected: 04.16.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

SPC

% Moisture:

Analyst:

SPC

Date Prep:

04.17.2020 17:30

Basis:

Wet Weight

Seq Number: 3123414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	04.17.2020 20:35	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

04.21.2020 16:00

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.22.2020 01:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.22.2020 01:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.22.2020 01:50	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.22.2020 01:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-130	04.22.2020 01:50		
o-Terphenyl		84-15-1	96	%	70-130	04.22.2020 01:50		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id:

NW2b

Matrix:

Soil

Date Received:04.17.2020 11:15

Lab Sample Id: 659139-004

Date Collected: 04.16.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

04.21.2020 01:48

Tech: Analyst: KTL

% Moisture:

KTL

Date Prep: 04.20.2020 15:45 Basis:

70-130

Wet Weight

Seq Number: 3123566

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.21.2020 01:48	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.21.2020 01:48	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.21.2020 01:48	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.21.2020 01:48	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.21.2020 01:48	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.21.2020 01:48	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.21.2020 01:48	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	40	60-00-4	94	%	70-130	04.21.2020 01:48		

100

540-36-3



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 659139

Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

LCSD

Result

241

Analytical Method: Chloride by EPA 300

Seq Number: 3123414

Matrix: Solid

250

E300P Prep Method:

Date Prep:

04.17.2020

MB Sample Id:

7701526-1-BLK

LCS Sample Id: 7701526-1-BKS

LCSD Sample Id: 7701526-1-BSD

Parameter

Chloride

MB Spike Result Amount

< 5.00

LCS LCS Result %Rec

247

LCSD %Rec

MSD

96

90-110

RPD Limits %RPD Limit 2

%RPD

Units

mg/kg

mg/kg

Analysis Flag Date 04.17.2020 19:21

Analytical Method: Chloride by EPA 300

3123414

Matrix: Soil

99

Prep Method: Date Prep: 04.17.2020

RPD

20

E300P

Seq Number: Parent Sample Id:

659138-007

659138-007 S MS Sample Id:

MSD Sample Id: 659138-007 SD

Units Analysis

Parameter

Chloride

Parent Spike Result Amount 35.3 249

MS MS Result %Rec 288 101

Result 291

MSD

%Rec 103 90-110

Limits

Limit 20 1

Date

Flag 04.17.2020 19:37

Analytical Method: Chloride by EPA 300

3123414

Prep Method:

E300P

04.17.2020

Seq Number: Parent Sample Id:

659201-002

Matrix: Soil

659201-002 S

Date Prep: MSD Sample Id: 659201-002 SD

Parameter

Spike **Parent** Result Amount

MS Sample Id: MS MS

MSD %Rec

Limite

RPD %RPD Limit Units

Analysis Flag Date

X

Chloride

250 <4.99

Result %Rec 275 110 Result 278

111 90-110

MSD

mg/kg

04.17.2020 20:51

Analytical Method: TPH By SW8015 Mod

3123736

Matrix: Solid

Prep Method:

20

SW8015P

Seg Number: MB Sample Id:

7701713-1-BLK

Date Prep:

04.21.2020

Parameter

1-Chlorooctane

LCS Sample Id: 7701713-1-BKS LCSD Sample Id: 7701713-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis Flag Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 04.21.2020 23:38 874 907 20 87 4 mg/kg

Diesel Range Organics (DRO)

< 50.0 1000 < 50.0 1000

70-130 91

04.21.2020 23:38 964 1000 70-130 4 20 96 100 mg/kg LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Flag

o-Terphenyl

87 91

107 101 %Rec

Date 04.21.2020 23:38

04.21.2020 23:38

Motor Oil Range Hydrocarbons (MRO)

Analytical Method: TPH By SW8015 Mod

117

106

Prep Method:

70-130

70-130

SW8015P

Seq Number:

3123736

Matrix: Solid

Date Prep:

04.21.2020

Flag

MBResult

MB Sample Id: 7701713-1-BLK

Units

%

%

Analysis Date

Parameter

< 50.0

mg/kg

04.21.2020 23:20

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

Flag

Flag

04.20.2020 15:48

QC Summary 659139



Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

Analytical Method: TPH By SW8015 Mod

Seg Number: 3123736

Parent Sample Id:

659139-001

Matrix: Soil MS Sample Id: 659139-001 S

SW8015P Prep Method:

MSD Sample Id:

35

Date Prep: 04.21.2020

659139-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.9 997 852 85 0 20 04.22.2020 00:34 850 85 70-130 mg/kg

04.22.2020 00:34 70-130 20 Diesel Range Organics (DRO) <49.9 997 946 95 941 1 mg/kg 94

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 04.22.2020 00:34 1-Chlorooctane 99 100 70-130 % 04.22.2020 00:34 o-Terphenyl 94 93 70-130 %

SW5030B Analytical Method: BTEX by EPA 8021B Prep Method:

3123566 Seq Number: Matrix: Solid Date Prep: 04.20.2020 LCS Sample Id: 7701648-1-BKS LCSD Sample Id: 7701648-1-BSD MB Sample Id: 7701648-1-BLK

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 04.20.2020 15:48 Benzene < 0.00200 0.100 0.0770 77 0.0730 73 70-130 5 35 mg/kg 04.20.2020 15:48 Toluene < 0.00200 0.100 0.0890 89 0.0821 82 70-130 8 35 mg/kg 04.20.2020 15:48 Ethylbenzene 0.100 0.0961 96 0.0878 88 70-130 9 35 < 0.00200 mg/kg 04.20.2020 15:48 m,p-Xylenes < 0.00400 0.200 0.192 96 0.174 87 70-130 10 35 mg/kg

o-Xylene mg/kg MB MB LCS LCS LCSD Limits Units LCSD Analysis Surrogate %Rec Flag %Rec Flag %Rec Flag Date 04.20.2020 15:48 1,4-Difluorobenzene 101 103 102 70-130 % 04.20.2020 15:48 102 70-130 % 4-Bromofluorobenzene 85 107

99

0.0905

91

70-130

Analytical Method: BTEX by EPA 8021B

< 0.00200

0.100

0.0991

SW5030B Prep Method: Seg Number: 3123566 Matrix: Soil Date Prep: 04.20.2020 659093-001 MS Sample Id: 659093-001 S MSD Sample Id: 659093-001 SD Parent Sample Id:

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 04.20.2020 16:28 < 0.00199 0.0996 0.0885 89 0.0835 70-130 35 Benzene 84 6 mg/kg

04.20.2020 16:28 70-130 35 Toluene 0.000604 0.0996 0.0966 96 0.0987 99 2 mg/kg Ethylbenzene 0.000674 0.0996 0.0889 89 0.0993 99 70-130 11 35 04.20.2020 16:28 mg/kg 35 04.20.2020 16:28 m,p-Xylenes 0.00117 0.199 0.171 85 0.195 97 70-130 13 mg/kg 0.000845 0.0996 0.0843 0.0954 95 70-130 12 35 mg/kg 04.20.2020 16:28 o-Xylene 84

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag Date %Rec %Rec 04.20.2020 16:28 1,4-Difluorobenzene 100 97 70-130 % 04.20.2020 16:28 4-Bromofluorobenzene 104 117 70-130 %

= MSD/LCSD Result



Project Manager:

Joel Lowry

Company Name: Address:

City, State ZIP:

Lovington, NM

3100 Plains Hwy Etech Environmental

Address: Company Name: Bill to: (if different)

(20,22/ex

City, State ZIP:

Chain of Custody

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

Wo	
Nork Or	
Order No	
8	
	1
2	

		Email: joel@etechenv.com, lance@etechenv.com Deliver	Deliverables: EDD ADaPT Other:
178	CON #007 Turn Around	ANALYSIS REQUEST	Preservative Codes
Project Number: //982	Routine:		HNO3: HN
Project Location Eddy	Co, NM Rush:	ve	
Sampler's Name: /Miquel	Punice 2 Due Date:	vati	H2SU4: H2
PO#:		ser	HCL: HC
SAMPLE RECEIPT Temp Blank:	Yes (No) Wet Ice: Yes No	- 1	None: No
Temperature (°C):	Thermometer IDA	iers	NaCH: Na
Yes N	8		MeOH: Me
Seals: Yes No	Correction Factor:	(Zn Acetate+ NaOH: Zn
N _O		PA E)	TAT starts the day received by the
Sample Identification Matrix		B7	in to consider by T-supplie
1.3 113	411.33	NC	Campia Comments
3	1000	× × × ×	
(a)	4.1.70		
NW2b	- 00 4 1 th		
		X	
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11 AI alyzed TCLP / SPLP 6010: 8RCRA	Sb As Ba Be B Cd Ca Cr Co Sb As Ba Be Cd Cr Co Cu Pb	Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Mn Mo Ni Se Ag Tl U 1631/2451/7470/7471: Ho
ce: Signature of this document and relinquishment of samy ervice. Xenco will be liable only for the cost of samples an enco. A minimum charge of \$75.00 will be applied to each	ples constitutes a valid purchase order from client nd shall not assume any responsibility for any losse project and a charge of \$5 for each sample submit	voluce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	conditions the control liated.
Relinquished by: (Signature)	Received by: (Signature)	Date/Time Rejjnquished by: (Signature)	Received by: (Signature) Date/Time
I my fame	who her	4-16-20 218 25 Jenne Med	
		6	

Reporting:Level I Level I PST/UST TRR Level I

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

Page

State of Project:

Work Order #: 659139

#14 Sample container(s) intact?

#17 Subcontract of sample(s)?

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 04.17.2020 11.15.00 AM

Temperature Measuring device used: R9

Yes Yes

Yes

N/A

N/A

Sample Rece	eipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel

#15 Sufficient sample amount for indicated test(s)?

#18 Water VOC samples have zero headspace?

#16 All samples received within hold time?

Date: 04.17.2020

Checklist reviewed by: Jessica Warner

Date: 04.20.2020



Certificate of Analysis Summary 658969

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 State Com #001

Project Id: Contact: 11982

Joel Lowry

Project Location:

Eddy Co, NM

Date Received in Lab: Thu 04.16.2020 10:40

Report Date: 04.20.2020 09:16

Project Manager: Jessica Kramer

	Lab Id:	658969-001			
Analysis Requested	Field Id:	FL 2 @ 5'			
Anaiysis Kequesiea	Depth:	5- ft			
	Matrix:	SOIL			
	Sampled:	04.15.2020 00:00			
BTEX by EPA 8021B	Extracted:	04.16.2020 11:30			
	Analyzed:	04.16.2020 19:22			
	Units/RL:	mg/kg RL			
Benzene		<0.00199 0.00199			
Toluene		<0.00199 0.00199			
Ethylbenzene		<0.00199 0.00199			
m,p-Xylenes		<0.00398 0.00398			
o-Xylene		<0.00199 0.00199			
Total Xylenes		<0.00199 0.00199			
Total BTEX		<0.00199 0.00199			
Chloride by EPA 300	Extracted:	04.16.2020 17:25			
	Analyzed:	04.16.2020 19:29			
	Units/RL:	mg/kg RL			
Chloride		1340 25.1			
TPH By SW8015 Mod	Extracted:	04.16.2020 15:00			
	Analyzed:	04.17.2020 10:38			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	_		
Diesel Range Organics (DRO)		<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9			
Total TPH		<49.9 49.9			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer

Jessica Kramer Project Manager

Analytical Report 658969

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Aspen 32 State Com #001 11982 04.20.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



04.20.2020

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 658969

Aspen 32 State Com #001 Project Address: Eddy Co, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658969. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 658969 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 658969

XENCO

Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL 2 @ 5'	S	04.15.2020 00:00	5 ft	658969-001



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 State Com #001

Project ID: Report Date: 04.20.2020 11982 Work Order Number(s): 658969

Date Received: 04.16.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123281 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples

affected are: 7701458-1-BKS,7701458-1-BSD,658547-005 S,658547-005 SD,658969-001.



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL 2 @ 5' Matrix: Soil Date Received:04.16.2020 10:40

Lab Sample Id: 658969-001

Date Collected: 04.15.2020 00:00

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

SPC

% Moisture:

Analyst:

SPC

Date Prep:

04.16.2020 17:25

Basis:

Wet Weight

Seq Number: 3123290

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1340	25.1	mg/kg	04.16.2020 19:29		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

04.16.2020 15:00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.17.2020 10:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.17.2020 10:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.17.2020 10:38	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.17.2020 10:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-130	04.17.2020 10:38		
o-Terphenyl		84-15-1	85	%	70-130	04.17.2020 10:38		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL 2 @ 5'

Matrix: Soil

Date Received:04.16.2020 10:40

Lab Sample Id: 658969-001

Date Collected: 04.15.2020 00:00

Sample Depth: 5 ft

04.16.2020 19:22

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst: KT

KTL

Date Prep: 04.16.2020 11:30

Basis:

70-130

Wet Weight

Seq Number: 3123281

1,4-Difluorobenzene

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.16.2020 19:22	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.16.2020 19:22	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.16.2020 19:22	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.16.2020 19:22	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.16.2020 19:22	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.16.2020 19:22	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.16.2020 19:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	143	%	70-130	04.16.2020 19:22	**	

108

540-36-3



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 658969

Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

245

Analytical Method: Chloride by EPA 300

3123290 Seq Number:

Matrix: Solid

E300P Prep Method:

Date Prep: 04.16.2020

MB Sample Id:

7701433-1-BLK

LCS Sample Id: 7701433-1-BKS

97

LCSD Sample Id: 7701433-1-BSD

mg/kg

Parameter

Chloride

MB Result Amount < 5.00

Spike

250

251

LCS LCS Result %Rec

243

LCSD LCSD Result %Rec

98

90-110

90-110

Limits %RPD

1

Units Analysis

Flag Date

04.16.2020 18:26

Analytical Method: Chloride by EPA 300

Seq Number:

3123290

Matrix: Soil

99

Prep Method: Date Prep: 04.16.2020

RPD

Limit

20

E300P

Parent Sample Id:

658968-001

658968-001 S MS Sample Id:

MSD Sample Id: 658968-001 SD

Parameter

Chloride

Parent Spike Result Amount

149

83.4

MS MS Result %Rec

398

MSD Result %Rec

104

104

Limits %RPD RPD Limit

3

0

Units Analysis

Flag Date

Flag

Flag

Flag

Analytical Method: Chloride by EPA 300

3123290

Prep Method:

20

E300P

Seq Number: Parent Sample Id:

658968-002

Matrix: Soil

103

658968-002 S

MSD

409

Date Prep: 04.16.2020

MSD Sample Id: 658968-002 SD Units

mg/kg

mg/kg

Parameter

Parent Result MS Sample Id: MS MS Result %Rec

341

MSD **MSD** Result %Rec 342

Limite 90-110

RPD %RPD Limit Analysis Date

04.16.2020 19:55

04.16.2020 18:41

Chloride

Seg Number:

3123324

Analytical Method: TPH By SW8015 Mod Matrix: Solid

Spike

249

Amount

Prep Method:

20

SW8015P

MB Sample Id:

7701424-1-BLK

LCS Sample Id: 7701424-1-BKS Date Prep: 04.16.2020

LCSD Sample Id: 7701424-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 04.17.2020 07:28 < 50.0 70-130 20 1000 866 87 832 83 4 mg/kg 04.17.2020 07:28 Diesel Range Organics (DRO) 925 93 886 89 70-130 4 20 < 50.0 1000 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 04.17.2020 07:28 1-Chlorooctane 83 100 96 70-130 % 04.17.2020 07:28 o-Terphenyl 87 93 89 70-130 %

Analytical Method: TPH By SW8015 Mod

Matrix: Solid

Prep Method:

SW8015P

Seq Number:

3123324

Date Prep:

04.16.2020

Parameter

MBResult

MB Sample Id: 7701424-1-BLK

Units

Analysis Date

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

04.17.2020 07:09

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

SW5030B

QC Summary 658969



Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

Analytical Method:	TPH By SW8015 Mod
--------------------	-------------------

SW8015P Prep Method: 3123324 Date Prep: Seq Number: Matrix: Soil 04.16.2020 MS Sample Id: 658968-001 S Parent Sample Id: 658968-001 MSD Sample Id: 658968-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<49.8	996	779	78	805	81	70-130	3	20	mg/kg	04.17.2020 08:25
Diesel Range Organics (DRO)	<49.8	996	843	85	869	87	70-130	3	20	mg/kg	04.17.2020 08:25

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		96		70-130	%	04.17.2020 08:25
o-Terphenyl	90		89		70-130	%	04.17.2020 08:25

Analytical Method: BTEX by EPA 8021B

Prep Method: Seq Number: 3123281 Matrix: Solid Date Prep: 04.16.2020 MB Sample Id: 7701458-1-BLK LCS Sample Id: 7701458-1-BKS LCSD Sample Id: 7701458-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.122	122	0.118	118	70-130	3	35	mg/kg	04.16.2020 12:43
Toluene	< 0.00200	0.100	0.116	116	0.111	111	70-130	4	35	mg/kg	04.16.2020 12:43
Ethylbenzene	< 0.00200	0.100	0.119	119	0.114	114	70-130	4	35	mg/kg	04.16.2020 12:43
m,p-Xylenes	< 0.00400	0.200	0.237	119	0.227	114	70-130	4	35	mg/kg	04.16.2020 12:43
o-Xylene	< 0.00200	0.100	0.119	119	0.115	115	70-130	3	35	mg/kg	04.16.2020 12:43

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		107		106		70-130	%	04.16.2020 12:43
4-Bromofluorobenzene	121		133	**	133	**	70-130	%	04.16.2020 12:43

Analytical Method: BTEX by EPA 8021B

SW5030B Prep Method: Seq Number: 3123281 Matrix: Soil Date Prep: 04.16.2020 MS Sample Id: 658547-005 S MSD Sample Id: 658547-005 SD Parent Sample Id: 658547-005

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00216	0.108	0.129	119	0.128	119	70-130	1	35	mg/kg	04.16.2020 13:23	
Toluene	< 0.00216	0.108	0.136	126	0.133	123	70-130	2	35	mg/kg	04.16.2020 13:23	
Ethylbenzene	< 0.00216	0.108	0.136	126	0.135	125	70-130	1	35	mg/kg	04.16.2020 13:23	
m,p-Xylenes	< 0.00433	0.216	0.274	127	0.272	126	70-130	1	35	mg/kg	04.16.2020 13:23	
o-Xylene	< 0.00216	0.108	0.137	127	0.135	125	70-130	1	35	mg/kg	04.16.2020 13:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		116		70-130	%	04.16.2020 13:23
4-Bromofluorobenzene	141	**	144	**	70-130	%	04.16.2020 13:23



Project Manager:

Joel Lowry

Company Name:

3100 Plains Hwy Etech Environmental

Address:

Bill to: (if different)

Company Name:

(20.22)

Program: UST/PST ☐PRP☐ Brownfields☐RRC☐ Superfund ☐

Work Order Comments

www.xenco.com

State of Project:

Chain of Custody

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

Atlanta, GA (770) 449-8800

Work Order No:
1089
Jah

City, State ZIP:	Lovington, NM				City, State ZIP:	. 0					R	porting:L	evel [Level II	PST/U	AT []S	Reporting:Level I Level I PST/UST TRRI Level I	evel I
Phone:	432-466-4450			Email:	Email: joel@etechenv.com, lance@etechenv.com	env.com, l	lance@et	echenv.cc	Ĭ		D.	Deliverables: EDD	s: EDD		ADaPT 🗆		Other:	
Project Name:	Aspen 32 S	Stat com	#0,1	T _u	Turn Around					ANALYSIS RE	EQUEST					Pre	servativ	Preservative Codes
Project Number:	8611			Routine:	Ē.	1								_		HNO3: HN	Ž	
Project Location	Eddy		Co, NM	Rush:		ve					1	1		1		H2S04: H2	ত :	
Sampler's Name:	Miane	∠લજ	q	Due Date:	ate:	vati										HCL: HL	ř	
PO #:	ل		-			ser	~*******	·						-		None: NO	_	
SAMPLE RECEIPT	,	Jemp Blank:	Yes No	Wet Ice:	€ 8	/Pre									_	NaOH: Na	, ,	
Temperature (°C):	Z P			ermometen	5	ers										901.	. Δ	
Pacaivad Intact	ш	-		V Commonweal		ain										MeOH: Me	Ō	
Received Intact:	(Yes	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		0	2	nta		5							N.	n Acetat	Zn Acetate+ NaOH: Zn	t: Zn
Cooler Custody Seals:	s: Yes No	S S	Correction Factor:	ctor:	なら	Co		d								7.47		
Sample Custody Seals:	L	₹ 1000	Total Containers:	ers:		r of	X	9/1								lab.ir	f received	lab, if received by 4:30pm
Sample Identification	tification	Matrix	Date	Time	Denth	mbei de	7E,	-h/								,	,	
1		1	Sampled	Sampled	•	Ni Cc	1	(Q	ipia co	
FL 205'		7 1.05	4.15.20		α	77.6	ヘメ	X										
								*										-
	,																	
																	`	
										,								
												-						
Total 200.7 / 6010	010 200.8 / 6020:	120:	8RCRA	- 11	13PPM Tayas 11 AI Sh As Ba Ba	1 AI Ch	As Da		?							, <u>+</u>		
Circle Method(:	Circle Method(s) and Metal(s) to be analyzed	be analy		11_	TCLP / SPLP 6010: 8RCRA	CRA Sb	Sb As Ba Be Cd Cr Co Cu Pb Mn M	Be Cd C	r Co Cu	Pb Mn		lo Ni Se Ag TI ∪		3	163	/ 245.1	1631 / 245.1 / 7470 /	1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any response that for any locations are the company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service.	cument and relinquishm the only for the cost of t	ent of sample: samples and s	s constitutes a	valid purchase	order from clien	it company to	Xenco, its at	fillates and su	bcontractors	. It assigns	standard ter	ms and con	itions					
of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ge of \$75.00 will be appl	ed to each pro	yect and a cha	rge of \$5 for ear	ch sample subm	nitted to Xence	o, but not an	llyzed. These	terms will be	enforced un	less previou	siy negotiate	id.					
Relinquished by: (Signature)	(Signature)		Received by	Received by: (Signature)	е)	Da	Date/Time		elinquish	Relinquished by: (Signature)	ignature)		Receive	Reçeived/ky: (Signature)	gnature)Da	Date/Time
1 May of		Con	(2)	J. W.		4-15	720 2:22	12 P	Sperinzo	130 (Ł			1	G
		,						4										
5								6									2	MO
																	Revised Da	Revised Date 101419 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.16.2020 10.40.00 AM

Checklist reviewed by:

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 658969

Temperature Measuring device used: R9

Work Order #. 000909	•	•
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.6
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping con	tainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	s?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sample	e labels/matrix?	Yes
#11 Container label(s) legible and intact?	•	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	ed test(s)?	Yes
#16 All samples received within hold time	9?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de	livery of samples prior to placing in	the refrigerator
Analyst:	PH Device/Lot#:	
Analyst	TTDevice/Lot#.	
Checklist completed by:	Brianna Teel	Date: <u>04.16.2020</u>

Jessica Kramer

Date: 04.16.2020



Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Aspen 32 State Com #001

Project Id: Contact:

11982

Joel Lowry

Project Location:

Eddy County, NM

Date Received in Lab: Wed 04.15.2020 10:08

Report Date: 04.16.2020 14:38

Project Manager: Jessica Kramer

		550015 001		I	I	
	Lab Id:	658817-001				
Analysis Requested	Field Id:	FL1 @ 4'				
Timatysis Requesica	Depth:	4- ft				
	Matrix:	SOIL				
	Sampled:	04.14.2020 00:00				
BTEX by EPA 8021B	Extracted:	04.15.2020 14:45				
	Analyzed:	04.15.2020 19:58				
	Units/RL:	mg/kg RL				
Benzene		< 0.00200 0.00200				
Toluene		<0.00200 0.00200				
Ethylbenzene		< 0.00200 0.00200				
m,p-Xylenes		<0.00400 0.00400				
o-Xylene		< 0.00200 0.00200				
Total Xylenes		< 0.00200 0.00200				
Total BTEX		< 0.00200 0.00200				
Chloride by EPA 300	Extracted:	04.15.2020 11:50				
	Analyzed:	04.15.2020 14:16				
	Units/RL:	mg/kg RL				
Chloride		1060 25.0				
TPH by Texas1005	Extracted:	04.15.2020 16:00				
	Analyzed:	04.15.2020 22:56				
	Units/RL:	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		<50.0 50.0				
>C12-C28 Diesel Range Hydrocarbons		<50.0 50.0				
>C28-C35 Oil Range Hydrocarbons		<50.0 50.0				
Total TPH		<50.0 50.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer

Jessica Kramer Project Manager



Analytical Report 658817

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Aspen 32 State Com #001 11982 04.16.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



04.16.2020

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: XENCO Report No(s): 658817

Aspen 32 State Com #001

Project Address: Eddy County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658817. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 658817 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 658817



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL1 @ 4'	S	04.14.2020 00:00	4 ft	658817-001

Received by OCD: 5/15/2020 1:32:52 PM

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Aspen 32 State Com #001

 Project ID:
 11982
 Report Date:
 04.16.2020

 Work Order Number(s):
 658817
 Date Received:
 04.15.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123169 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL1 @ 4' Matrix: Soil Date Received:04.15.2020 10:08

Lab Sample Id: 658817-001

Date Collected: 04.14.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

SPC

% Moisture:

Analyst:

CHE

Date Prep:

04.15.2020 11:50 Basis: Wet Weight

Seq Number: 3123140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1060	25.0	mg/kg	04.15.2020 14:16		5

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

DVM

% Moisture:

Analyst: ARM

Tech:

04.15.2020 16:00 Date Prep:

Basis: Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<50.0	50.0		mg/kg	04.15.2020 22:56	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	< 50.0	50.0		mg/kg	04.15.2020 22:56	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<50.0	50.0		mg/kg	04.15.2020 22:56	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	04.15.2020 22:56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
o-Terphenyl		84-15-1	124	%	70-130	04.15.2020 22:56		
1-Chlorooctane		111-85-3	102	%	70-130	04.15.2020 22:56		



Etech Environmental & Safety Solution, Inc, Midland, TX

Aspen 32 State Com #001

Sample Id: FL1 @ 4' Matrix: Soil Date Received:04.15.2020 10:08

Lab Sample Id: 658817-001

Date Collected: 04.14.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

Date Prep: 04.15.2020 14:45 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.15.2020 19:58	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.15.2020 19:58	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.15.2020 19:58	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.15.2020 19:58	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.15.2020 19:58	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.15.2020 19:58	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.15.2020 19:58	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	04.15.2020 19:58	
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.15.2020 19:58	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 658817



Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

LCSD

245

Analytical Method: Chloride by EPA 300

Seq Number: 3123140

Matrix: Solid

250

E300P Prep Method:

Date Prep: 04.15.2020

MB Sample Id:

7701316-1-BLK

LCS Sample Id: 7701316-1-BKS

LCSD Sample Id: 7701316-1-BSD

mg/kg

Parameter

Chloride

MB Spike Result Amount < 5.00

LCS LCS Result %Rec

242

LCSD Result %Rec

98

MSD

Limits %RPD

1

90-110

RPD Units Limit 20

Analysis Date

Flag 04.15.2020 13:12

Analytical Method: Chloride by EPA 300

3123140

Matrix: Soil

97

Prep Method: Date Prep: 04.15.2020

RPD

E300P

Seq Number: Parent Sample Id:

Parameter

658788-001

658788-001 S MS Sample Id:

MSD Sample Id: 658788-001 SD

Units Analysis

Chloride

Parent Spike Result Amount 769 250

MS MS Result %Rec 997 91

Result 1000

MSD

%Rec 92 90-110

Limits

Limit 20 0

%RPD

04.15.2020 13:28

Flag Date

Analytical Method: Chloride by EPA 300

252

E300P Prep Method:

Date Prep:

RPD

Limit

20

04.15.2020

Seq Number: Parent Sample Id: 3123140 658819-004

Matrix: Soil MS Sample Id: 658819-004 S

MSD Sample Id: 658819-004 SD

Parameter

Spike **Parent** Result Amount

< 5.04

MS MS Result %Rec

255

MSD **MSD** Result %Rec

103

90-110

%RPD Limite

2

1

Units

mg/kg

mg/kg

mg/kg

Analysis Flag Date

04.15.2020 14:42

Chloride

Analytical Method: TPH by Texas1005 Seg Number:

3123196

Matrix: Solid

101

Prep Method:

20

TX1005P

MB Sample Id:

7701347-1-BLK

LCS Sample Id: 7701347-1-BKS

04.15.2020 Date Prep:

LCSD Sample Id: 7701347-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec C6-C12 Gasoline Range Hydrocarbons 04.15.2020 22:14 75-125 20 < 50.0 1000 1020 102 1030 103 mg/kg 1

>C12-C28 Diesel Range Hydrocarbons **Surrogate**

< 50.0 1000 MBMB

1190 119 1180

259

75-125 118

Flag

04.15.2020 22:14

LCS LCS LCSD Limits Units Analysis LCSD %Rec %Rec Flag Flag Date Flag %Rec 04.15.2020 22:14 o-Terphenyl 119 123 116 70-130 % 04.15.2020 22:14 1-Chlorooctane 101 105 99 70-130 %

Analytical Method: TPH by Texas1005

Prep Method:

TX1005P

Seq Number:

3123196

Matrix: Solid

Date Prep:

04.15.2020

Parameter

MBResult

MB Sample Id: 7701347-1-BLK

Units

Analysis

Flag

>C28-C35 Oil Range Hydrocarbons

< 50.0

mg/kg

Date 04.15.2020 21:53

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

QC Summary 658817



Etech Environmental & Safety Solution, Inc

Aspen 32 State Com #001

658817-001 S

Analytical Method: TPH by Texas1005

Seq Number: 3123196

Parent Sample Id:

658817-001

Matrix: Soil

MS Sample Id:

TX1005P Prep Method:

Date Prep: 04.15.2020

MSD Sample Id: 658817-001 SD

MS RPD **Parent** Spike MS MSD Limits %RPD Units Analysis MSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date C6-C12 Gasoline Range Hydrocarbons <49.9 997 1070 107 1060 30 04.15.2020 23:18 106 75-125 1 mg/kg 04.15.2020 23:18 >C12-C28 Diesel Range Hydrocarbons <49.9 3 30 mg/kg 997 1170 117 1200 75-125 120

MSD Units MS MS Limits Analysis MSD **Surrogate** %Rec Flag Flag Date %Rec 04.15.2020 23:18 o-Terphenyl 124 109 70-130 % 04.15.2020 23:18 1-Chlorooctane 109 110 70-130 %

Analytical Method: BTEX by EPA 8021B

3123169 Seq Number:

7701374-1-BLK MB Sample Id:

Matrix: Solid

LCS Sample Id: 7701374-1-BKS

Prep Method:

SW5030B

Flag

Flag

Date Prep: 04.15.2020

LCSD Sample Id: 7701374-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0978	98	0.105	105	70-130	7	35	mg/kg	04.15.2020 11:39
Toluene	< 0.00200	0.100	0.107	107	0.108	108	70-130	1	35	mg/kg	04.15.2020 11:39
Ethylbenzene	< 0.00200	0.100	0.110	110	0.111	111	70-130	1	35	mg/kg	04.15.2020 11:39
m,p-Xylenes	< 0.00400	0.200	0.224	112	0.225	113	70-130	0	35	mg/kg	04.15.2020 11:39
o-Xylene	< 0.00200	0.100	0.113	113	0.113	113	70-130	0	35	mg/kg	04.15.2020 11:39

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		103		103		70-130	%	04.15.2020 11:39
4-Bromofluorobenzene	104		115		121		70-130	%	04.15.2020 11:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3123169 Parent Sample Id:

658547-001

Matrix: Soil

MS Sample Id:

658547-001 S

SW5030B Prep Method:

Date Prep: 04.15.2020

MSD Sample Id: 658547-001 SD

RPD **Parent** Spike MS MS MSD MSD Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 04.15.2020 12:19 < 0.00221 0.110 0.0848 77 0.118 107 70-130 33 35 Benzene mg/kg 04.15.2020 12:19 70-130 14 35 Toluene < 0.00221 0.110 0.0977 89 0.112 102 mg/kg Ethylbenzene < 0.00221 0.110 0.0951 86 0.111 101 70-130 15 35 mg/kg 04.15.2020 12:19 < 0.00441 0.221 0.189 0.222 70-130 35 04.15.2020 12:19 m,p-Xylenes 86 101 16 mg/kg o-Xylene < 0.00221 0.110 0.0952 87 0.115 105 70-130 19 35 04.15.2020 12:19 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	116		109		70-130	%	04.15.2020 12:19
4-Bromofluorobenzene	111		116		70-130	%	04.15.2020 12:19

E = MSD/LCSD Result

Revised Date 101419 Rev. 2019.1



City, State ZIP:

575-396-2378

Address:

Project Manager: Company Name:

Etech Environmental & Safety

Joel Lowry

3100 Plains Highway

Address:

City, State ZIP:

Email Results to PM@etechenv.com + Client

Deliverables: EDD

Reporting:Level I☐ Level Ii☐ PST/US'☐ TRR[☐ Level Ii☐

ADaPT

Work Order Comments

www.xenco.com

State of Project:

Bill to: (if different)

Company Name:

17/22/eV

ovington, NM, 88260

Chain of Custody

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

Work Order No: USBS

Project Name: ITSpen or State	State	(on #0)		Turn Around	ANALYSIS REQUEST	7	Preservative Codes
Project Number: 1982			_ک	ق ط			
Project Location Fd/V /Ou	COUNTUY (/ /M	Rush:		/e		
Sampler's Name: Mique	<u>~</u>	no irec	Due Date:	ate:			חבטט4: חב
PO#]				ser		HCC: HC
SAMPLE RECEIPT Terr	Temp Blank:	Yes No I	Wet Ice.	No.	rre		None: NC
	0,0		armometer)	- 1	ers/		NaOH: Na
Received Intact: (Yes)	8		, inclinion et al.	72			MeOH: Me
eals: Ye	ALA	Correction Factor:	ctor.				Zn Acetate+ NaOH: Zn
Vas		Total Castala	: I.		300 ed		TAT starts the day recevied by the
Sample Custody Seals: Yes No		Total Containers:	ers:		e E3 021 odifie		lab, if received by 4:30pm
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number Code Chlorid BTEX 8 TPH Mo		Sample Comments
A 21/0 A.	211	4.14.20		41	X X BB		
				-			
Circle Method(s) and Metal(s) to be analyzed	020: o be anal		CIP/SPI	TCIP/SPIP 6010: SECEN	Sh As Ba Be B Cd Ca Cr Co Cu Fe	li K Se Ag SiO:	Se Ag SiO2 Na Sr Tl Sn U V Zn
Notice: Signature of this document and relinquishn	nent of samp	les constitutes a	valid purchase	order from client	mnany to Young the affiliation and arithmetic for the second and arithmetic for the second arith		
of service. Xenco will be liable only for the cost of of Xenco. A minimum charge of \$75.00 will be app	samples and lied to each p	shall not assum	e any responsible of \$5 for each	lity for any losse h sample submi	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	rms and conditions s beyond the control usly negotiated.	
Relinquis (ed. by (Signature)		Received by: (Signature)	y: (Signatyre	a)	Date/Time Relinquished,by: (Signature)) ि Received by; (Signature)	iture) /Date/Time
" What The	Por	TROPAT	grephants	and	Broomstaganol. 02/11/11		5
5) 4		
					0		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.15.2020 10.08.00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 658817

Temperature Measuring device used: R9

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

Analyst:		PH Device/Lot#:	
	Checklist completed by:	Brianna Teel	Date: <u>04.15.2020</u>
	Checklist reviewed by:	Jessica Vramer	Date: 04.15.2020

Jessica Kramer

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

Appendix D Photographic Log

Photographic Log

Photo Number:

1

Photo Direction:

East

Photo Description:

View of surface staining from the initial release.



Photo Number:

2

Photo Direction:

North West

Photo Description: View of portion of the

excavated area.



Photographic Log





Photographic Log

Photo Number: 5

Photo Direction: North West

Photo Description:View of portion of the excavated area.



Photo Number:

6

Photo Direction:

East

Photo Description:

View of the affected area after remediation activities.

