District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2024537991
District RP	
Facility ID	38325
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident # *(assigned by OCD)*
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.68320 Longitude -103.72417
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Crazy Wolf Fed Com 1H	Site Type: Production Facility
Date Release Discovered: 8-16-20	API# *30025431350000*

Unit Letter	Section	Township	Range	County
M	1	19S	32E	Lea

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The threads on the transfer pump swedge had corroded and released the produced water. The free-standing fluids were recovered and properly disposed of. The square footage, porosity, and saturation was used in determining the amount of liquids released. The site will be delineated and remediated to the state standards and a final C141 closure report will be submitted.

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2024537991
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume released was greater than 25bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification was given to Jim Griswold and emnrd-ocd-district1spills.	

Initial Response

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

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

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

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

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: [signature] Date: 8-31-20

email: jamon.hohensee@cdewinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: Jamon H. Date: 3-17-21

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: [signature] Date: 3-17-21

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: [signature] Date: 3-17-21

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: Chad Hensley Date: 04/14/2021

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

Closure Approved by: Chad Hensley Date: 04/14/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Development, Inc.
Crazy Wolf Fed COM 1H
Lea County, New Mexico
Unit Letter "M", Section 01, Township 19 South, Range 32 East
Latitude 32.68320º North, Longitude 103.72417º West
NMOCD Reference # NRM2024537991

Prepared For:

Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Prepared By:

Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, Texas 79711

March 2021

Shannon English, P.G.
Project Manager

Matthew Green, P.G.
Senior Project Manager

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APPENDICES

INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Crazy Wolf Fed COM 1H. The legal description of the Release Site is Unit Letter "M", Section 01, Township 19 South, Range 32 East, in Lea County, New Mexico. The subject property is administered by the New Mexico U.S. Department of the Interior Bureau of Land Management (BLM). The Release Site GPS coordinates are 32.68320º North and 103.72417º West. Please reference Figure 1 for the Site Location Map, Figure 2, and Figure 3 for the Confirmation Soil Sample Location Map and Section Detail Map.

On August 16, 2020, the release was discovered by Centennial. The threads on the transfer pump swedge had corroded, resulting in the release. Approximately fifty (50) barrels of produced water was released with fifteen (15) barrels recovered, resulting in a net loss of approximately thirty-five (35) barrels of produced water. August 31, 2020, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and the Department of the Interior Bureau of Land Management (BLM) documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Crazy Wolf Fed COM 1H Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 324224103444101 located approximately two (2) miles northwest of the Release Site. The average depth to groundwater for USGS Well #: 324224103444101 should be encountered at approximately 117 feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the Crazy Wolf Fed COM 1H Release Site as a result of this criterion.

On December 1, 2020, due to insufficient groundwater data, a soil boring was installed by Talon, LPE (Talon) in order to determine site specific depth to groundwater. The boring was advanced to 100 feet below ground surface. The boring was allowed to remain open for the allotted seventy-two (72) hours. On December 4, 2020, no groundwater was observed in the boring. Talon plugged the boring in accordance with New Mexico Office of State Engineer regulations. Please reference Figure 4 for the log of soil boring. Based on the site-specific groundwater data, the soil remediation levels for this site are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 2,500 mg/Kg (ppm)
- Chloride – 10,000 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

October 7, 2020, Etech commenced excavation activities at the Release Site utilizing heavy equipment and manual means. Excavated soil was stockpiled on site and remediated utilizing blending and aeration techniques with surrounding clean soil and forty (40) bags of gypsum. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment and utilities in the release area were spotted utilizing a hydro-vac.

Between November 11 through 13, 2020, concurrent with remediation activities, Etech, on behalf of Centennial, collected ten (10) composite bottom hole soil samples (BH-1 @ 1', BH-1 @ 1.5', BH-2 @ 1.5', BH-2 @ 1.5', BH-3 @ 1.5', BH-3 @ 1.5', BH-4 @ 2', BH-4 @ 6', BH-5 @ 1.5', and BH-7@ 1') from the excavated area and six (6) composite sidewall confirmation soil sample (SSW-1 @ 1.5, WSW-2 @ 1.5', NSW-2 @ 1.5', NSW-3 @ 1.5', ESW-1 @ 1', and ESW-2 @ 1.5') from the sidewalls of the excavated area. Soil samples were submitted to Eurofins in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits. Please reference Figure 2 and Figure 3 for site details and soil sampling locations.

On November 20, 2020, following further excavation activities, four (4) additional composite bottom hole soil samples (BH-9 @ 3', BH-10 @ 3', BH-11 @ 3', and BH-12 @ 6"). At this time, thirty-four (34) additional composite sidewall soil samples (WSW-5 @ 1', WSW-6 @ 1.5', WSW-9 @ 3', WSW-10 @ 3', WSW-11 @ 3', WSW-12 @ 6", NSW-1 @ 1', NSW-2 @ 1.5', NSW-4 @ 2', NSW-5 @ 1', NSW-7 @ 1.5', NSW-8 @ 1.5', NSW-11 @ 3', NSW-12 @ 6", SSW-2@ 1.5', SSW-4 @ 2', SSW-5 @ 1', SSW-6 @ 1.5', SSW-7 @ 1.5', SSW-8 @ 1.5', SSW-12 @ 6", ESW-4 @ 2', ESW-5 @ 1', ESW-8 @ 1.5', ESW-9 @ 3', ESW-10 @ 3', ESW-11 @ 3', ESW-12 @ 6", ESS-1 @ 1' through ESS-3 @ 1', and WSS-1 @ 1' through WSS-3 @ 1') were collected from the excavated area. Soil samples were submitted to Eurofins and analyzed for BTEX, TPH, and chloride concentrations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits with the exception of ESW-12 @ 6" and NSW-12 @ 6" which exhibited chloride concentrations above NMOCD limits. Please reference Figure 2 and Figure 3 for site details and soil sampling locations.

On November 24, 2020, following further excavation activities, six (6) additional composite bottom hole soil samples (BH-5 @ 1.5', BH-6 @ 1', BH-8 @ 1.5', BH-13 @ 6", BH-14 @ 1', and BH-15 @ 1') along with nine (9) additional composite sidewall soil samples (ESW-13 @ 3", ESW-14 @ 1', ESW-15 @ 1', WSW-14 @ 1', WSW-15 @ 1', SSW-13 @ 3", NSW-13 @ 3", NSW-14 @ 1', and NSW-15 @ 1') were collected from the excavated area. Soil samples were submitted to Eurofins and analyzed for BTEX, TPH, and chloride concentrations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits. Please reference Figure 2 and Figure 3 for site details and soil sampling locations.

On December 14, 2020, following further excavation activities, two (2) additional composite bottom hole soil samples (Bottom Hole 11 @ 4' and Bottom Hole 16 @ 1.5') and three (3) additional composite sidewall soil samples (ESW-12 @ 3", WSW-16 @ 6", and NSW-16 @ 6") were collected from the excavated area. Soil samples were submitted to Eurofins and analyzed for BTEX, TPH, and chloride concentrations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits. Please reference Figure 2 and Figure 3 for site details and soil sampling locations.

On December 23, 2020, following further excavation activities, one (1) additional composite sidewall soil sample (NSW-12 @ 6") was collected from the excavated area. The soil sample was submitted to Eurofins and analyzed for chloride concentrations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits.

On January 7, 2021, two (2) composite soil samples were collected from the remediated, excavated stockpiled material (Stockpile A and Stockpile B). Soil samples were submitted to Eurofins and analyzed for BTEX, TPH, and chloride concentrations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

BACKFILL ACTIVITIES

January 18th through 21st, 2021, the excavated area was backfilled with the stockpile material and the site was restored and contoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples collected from the excavation, impacted soils were brought to surface and confirmation soil samples below applicable NMOCD regulatory limits. Etech, on behalf of Centennial, respectfully request that the NMOCD District 1 Office grant site closure to the Crazy Wolf Fed COM 1H Release Site (NMOCD Incident ID#: NRM2024537991).

LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also 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 Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

DISTRIBUTION

Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1624 N. French Drive
Hobbs, New Mexico 88210

Copy 2: Jamon Hohensee
Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Copy 3: U.S. Department of the Interior
Bureau of Land Management
2909 West Second Street
Roswell, NM 88201-2019

Copy 4: Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, TX 79711

FIGURES

Figure 1 – Site Location Map
Figure 2 – Confirmation Sample Location Map
Figure 3 – Section Details
Figure 4 – Soil Boring Log

Closure Request and Remediation Summary Report
Crazy Wolf Fed COM 1H

Environmental & Safety Solutions, Inc.

Site - Crazy Wolf Fed COM 1H
Site Location Map
Centeninal Resource Development, Inc.
Lea County, NM
N 32.68320°, W 103.72417°
December 16, 2020

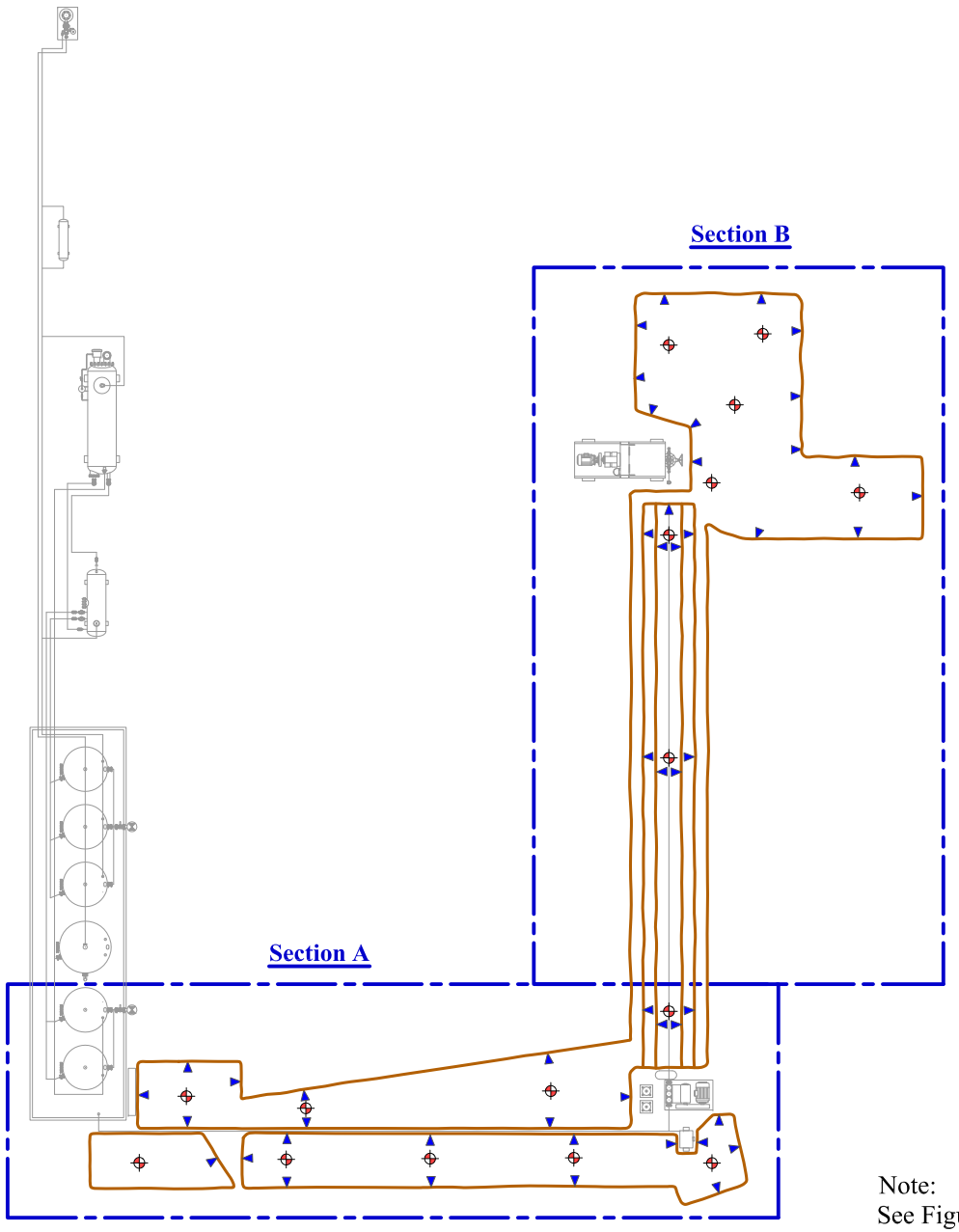
Legend

= Site Location

eTECH Environmental & Safety Solutions, Inc.

Job No.: 1226-12926

Figure 1



Note:
See Figure 3 for sample point sections & detai

Site - Crazy Wolf Fed COM 1H
Site Details and Confirmation Sample Map
Centeninal Resource Development, Inc.
Lea County, NM
N 32.68320°, W 103.72417°
December 16, 2020

Legend

= Bottom Hole Sampling Point

= Side Wall Sampling Point

Excavation Perimeter

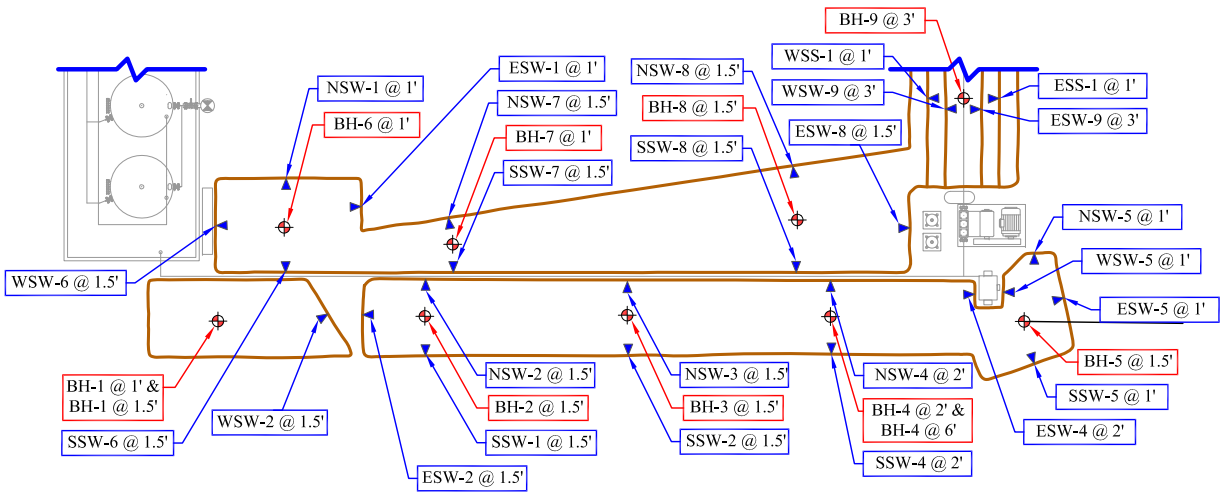
All sample points are approximate

0 100 200
Feet

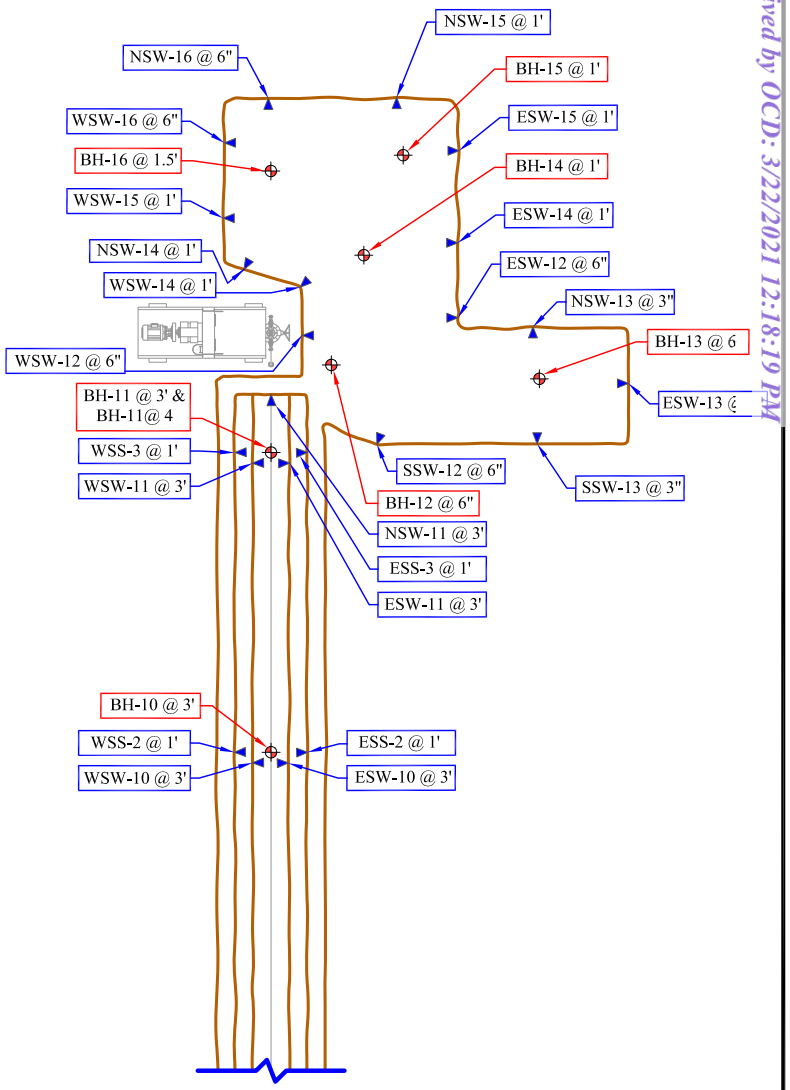
eTECH Environmental & Safety Solutions, In

Job No.: 1226-12926

Figure 2



Section A



Section B

Site - Crazy Wolf Fed COM 1H
Section Details
Centeninal Resource Development, Inc.
Lea County, NM
N 32.68320°, W 103.72417°
December 16, 2020

Legend

= Bottom Hole Sampling Point
= Side Wall Sampling Point
Excavation Perimeter

All sample points are approximate

No Scale

eTECH Environmental & Safety Solutions, Inc

Job No.: 1226-12926

Figure 3

PROJECT NO. 12184	LOG OF SOIL BORING CW1	Figure 4

PROJECT NAME:	DATE DRILLED:	DATE PLUGGED:
Crazy Wolf Fed COM 1H	**12/1/2020**	**12/4/2020**
CLIENT:	LOGGED BY:	APPROVED BY:
Centennial Resource Development, Inc.	**S. English**	**M. Green**
PROJECT LOCATION:	LATITUDE/LONGITUDE - WGS84:	GROUND SURFACE ELEVATION:
Lea County, NM	**32.68353000° -103.72374100°**	**3674 feet MSL**

Depth (ft)	Elevation (ft)	Description	Graphic Log	Well Construction	Additional Data
0	3674				Hole plugged 12/4/2020. Cuttings backfilled into hole from 100 to 3 feet. Hydrated bentonite from 3 to 0 feet.
5	3670	Sand & Clay: Sand: Overall 7.5 YR 6/4 light brown, moderately sorted, medium to fine, subrounded to rounded, quartz. Clay: 7.5 YR 9/1 white, calcareous.	SC1		
10	3665				
15	3660	Sandstone: 5 YR 7/6 reddish yellow to 2.5 YR 8/3 pink, moderately sorted, medium to fine, subrounded to rounded, friable, clay matrix. Matrix: 7.5 YR 9/1 white, calcareous.	Sandstone		
20	3655				
25	3650				
30	3645				No groundwater present in well.
35	3640	Claystone: 2.5 YR 6/4 light reddish brown, hard. Trace sands	Claystone		
40	3635				
45	3630				
50	3625				
55	3620				
60	3615				
65	3610				
70	3605	Sandy clay & Gravel: Sand: multicolored, fine to very fine, moderately sorted, angular to rounded. Clay: 2.5 YR 6/4 light reddish brown, hard. Gravel: poorly sorted, multicolored, pebble to granule.	GC		
75	3600				
80	3595	Sandy Clay: Sand: multicolored, fine to very fine, moderately sorted, angular to rounded. Clay: 2.5 YR 6/4 light reddish brown, hard.	SC		
85	3590	Sandy Clay & Gravel: Sand: multicolored, fine to very fine, moderately sorted, angular to rounded. Clay: 2.5 YR 6/4 light reddish brown, hard. Gravel: poorly sorted, multicolored, pebble to granule.	GC		
90	3585	Sandy Clay: Sand: multicolored, coarse to very fine, poorly sorted, angular to rounded. Clay: 2.5 YR 6/4 light reddish brown, hard.	SC		
95	3580				
100	3575	Boring terminated at 100 feet bgs.			

eTECH Environmental & Safety Solutions, Inc.	**Etech Environmental & Safety Solutions** **P.O. Box 8469** **Midland, Texas 79708** **www.etechenv.com**	DRILLING METHOD: **Air Rotary** DRILL RIG: **Reichdrill** CONTRACTOR: **Talon LPE** OPERATOR: **Tom Evans**

TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

Closure Request and Remediation Summary Report
Crazy Wolf Fed COM 1H

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

CRAZY WOLF FED COM 1H RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		**10 mg/Kg**						**50 mg/Kg**				**2,500 mg/Kg**	**10,000 mg/Kg**
Bottom Hole Sample Results													
BH-1 @ 1'	11/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
BH-1 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	337
BH-2 @ 1.5'	11/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.0
BH-2 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53.1
BH-3 @ 1.5'	11/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
BH-3 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	355
BH-4 @ 2'	11/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48.6
BH-4 @ 6'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.9
BH-5 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
BH-5 @ 1.5'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,380
BH-6 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	462
BH-7 @ 1'	11/12/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	172
BH-8 @ 1.5'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97.5
BH-9 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,410
BH-10 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,470
BH-11 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	86.7	ND	86.7	**12,400**
Bottom Hole 11 @ 4'	12/14/2020	-	-	-	-	-	-	-	-	-	-	-	204
BH-12 @ 6"	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	104
BH-13 @ 6"	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	148
BH-14 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	658
BH-15 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	458
Bottom Hole 16 @ 1.5'	12/14/2020	0.00497	ND	0.00306	0.00453	0.00539	0.00992	0.01795	ND	ND	ND	ND	1,250

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

CRAZY WOLF FED COM 1H RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		**10 mg/Kg**						**50 mg/Kg**				**2,500 mg/Kg**	**10,000 mg/Kg**
South Side Wall Sample Results													
SSW-1 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.5
SSW-2 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.9
SSW-4 @ 2'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	262
SSW-5 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,150
SSW-6 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,540
SSW-7 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,000
SSW-8 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	208
SSW-12 @ 6"	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,540
SSW-13 @ 3"	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	262
East Side Wall Sample Results													
ESW-1 @ 1'	11/11/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.0
ESW-2 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	537
ESW-4 @ 2'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,240
ESW-5 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.9
ESW-8 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,510
ESW-9 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61.7
ESW-10 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,010
ESW-11 @ 3'	11/20/2020	0.0823	0.00918	0.00603	ND	0.00372	0.00372	0.10123	ND	ND	ND	ND	3,100
ESW-12 @ 6"	11/20/2020	0.00290	ND	ND	ND	ND	ND	0.00290	ND	542	321	863	**17,700**
ESW-12 @ 6"	12/14/2020	-	-	-	-	-	-	-	-	-	-	-	296
ESW-13 @ 3"	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	171

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

CRAZY WOLF FED COM 1H RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				2,500 mg/Kg	10,000 mg/Kg
ESW-14 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.8
ESW-15 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	423
West Side Wall Sample Results													
WSW-2 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.2
WSW-5 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,110
WSW-6 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9,410
WSW-9 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.1
WSW-10 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
WSW-11 @ 3'	11/20/2020	0.00264	ND	ND	ND	ND	ND	0.00264	ND	ND	ND	ND	2,620
WSW-12 @ 6"	11/20/2020	0.00647	0.00205	0.00569	0.00509	0.00368	0.00877	0.02298	ND	ND	ND	ND	2,080
WSW-14 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	290
WSW-15 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	822
WSW-16 @ 6"	12/14/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	144
North Side Wall Sample Results													
NSW-1 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,210
NSW-2 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	148
NSW-2 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.7
NSW-3 @ 1.5'	11/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.8
NSW-4 @ 2'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,320
NSW-5 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124
NSW-7 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,630
NSW-8 @ 1.5'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.8

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

CRAZY WOLF FED COM 1H RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		**10 mg/Kg**						**50 mg/Kg**				**2,500 mg/Kg**	**10,000 mg/Kg**
NSW-11 @ 3'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	68.1	ND	68.1	1,290
NSW-12 @ 6"	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	847	190	1,037	**14,800**
NSW-12 @ 6"	12/23/2020	-	-	-	-	-	-	-	-	-	-	-	488
NSW-13 @ 3"	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81.1
NSW-14 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,340
NSW-15 @ 1'	11/24/2020	ND	ND	ND	ND	ND	ND	ND	ND	149	ND	149	2,290
NSW-16 @ 6"	12/14/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	301
Side Wall Bench Sample Results													
ESS-1 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4
ESS-2 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	113
ESS-3 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	393
WSS-1 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.78
WSS-2 @ 1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.2
WSS-3 @1'	11/20/2020	ND	ND	ND	ND	ND	ND	ND	ND	90.6	ND	90.6	1,650
Stockpile Sample Results													
Stockpile A	1/7/2021	ND	ND	ND	ND	ND	ND	ND	ND	74.2	ND	74.2	2,240
Stockpile B	1/7/2021	ND	ND	ND	ND	ND	ND	ND	ND	82.3	ND	82.3	3,360

Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit
ND - Analyte not Detected at or above the Laboratory Method Detection Limit

APPENDIX A

Photographic Documentation

Closure Request and Remediation Summary Report
Crazy Wolf Fed COM 1H

eTECH Environmental & Safety Solutions, Inc.

Project Name: *Crazy Wolf Fed COM 1H*
Project No: *12926*

Photographic Documentation

Photo No: **1.**	
Direction Taken: Northwest	
Description: View of the release area.	

Photo No: **2.**	
Direction Taken: North	
Description: View of the release area.	

Project Name: *Crazy Wolf Fed COM 1H*
Project No: *12926*

Photographic Documentation

Photo No: **3.**	
Direction Taken: Southeast	
Description: View of the release area.	

Photo No: **4.**	
Direction Taken: East	
Description: View of the release area.	

Project Name: *Crazy Wolf Fed COM 1H*
Project No: *12926*

Photographic Documentation

Photo No: **5.**	
Direction Taken: Northwest	
Description: View of the excavated area.	

Photo No: **6.**	
Direction Taken: Southeast	
Description: View of the excavated area.	

Project Name: *Crazy Wolf Fed COM 1H*
Project No: *12926*

Photographic Documentation

Photo No: **7.**	
Direction Taken: Southeast	
Description: View of the excavated area.	

Photo No: **8.**	
Direction Taken: East	
Description: View of the excavated area.	

Project Name: *Crazy Wolf Fed COM 1H*
Project No: *12926*

Photographic Documentation

Photo No: **9.**	
Direction Taken: West	
Description: View of the remediated area.	

Photo No: **10.**	
Direction Taken: North	
Description: View of the remediated area.	

Project Name: *Crazy Wolf Fed COM 1H*
Project No: *12926*

Photographic Documentation

Photo No: **11.**	
Direction Taken: Southwest	
Description: View of the remediated area.	

Photo No: **12.**	
Direction Taken: East	
Description: View of the remediated area.	

APPENDIX B

Laboratory Analytical Reports

Closure Request and Remediation Summary Report
Crazy Wolf Fed COM 1H

eTECH Environmental & Safety Solutions, Inc.

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 678472

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.19.2020 14:55
Report Date: 01.29.2021 11:33
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	678472-001		678472-002		678472-003		678472-004		678472-005	
	Field Id:	BH-1 @ 1.5'		BH-2 @ 1.5'		BH-3 @ 1.5'		BH-4 @ 6'		BH-5 @ 1.5'	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.13.2020 11:00		11.13.2020 11:30		11.13.2020 12:00		11.13.2020 14:30		11.13.2020 14:00	
BTEX by EPA 8021B	***Extracted:***	11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00		11.23.2020 14:15		11.23.2020 14:15	
	Analyzed:	11.21.2020 15:19		11.21.2020 15:39		11.21.2020 16:00		11.24.2020 01:08		11.24.2020 01:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00199
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00199
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00199
m,p-Xylenes		ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00398	ND	0.00398
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00199
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.001990	ND	0.001990
Total BTEX		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.001990	ND	0.001990
Chloride by EPA 300	***Extracted:***	11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25	
	Analyzed:	11.20.2020 20:23		11.20.2020 20:28		11.20.2020 20:33		11.20.2020 20:49		11.20.2020 20:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		337	4.95	53.1	5.03	355	4.98	60.9	4.97	130	5.02
TPH by SW8015 Mod	***Extracted:***	11.23.2020 10:00		11.23.2020 10:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00	
	Analyzed:	11.23.2020 19:54		11.23.2020 20:14		11.20.2020 20:58		11.20.2020 21:18		11.20.2020 21:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	50.0	ND	50.0	ND	49.9	ND	50.0
Diesel Range Organics (DRO)		ND	50.0	ND	50.0	ND	50.0	ND	49.9	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	50.0	ND	50.0	ND	49.9	ND	50.0
Total TPH		ND	50.00	ND	50.00	ND	50.00	ND	49.90	ND	50.00

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 678472

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

12926

01.29.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

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01.29.2021

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **678472**
Crazy Wolf 1H
Project Address: Lea County, New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678472. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678472 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 678472

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 @ 1.5'	S	11.13.2020 11:00		678472-001
BH-2 @ 1.5'	S	11.13.2020 11:30		678472-002
BH-3 @ 1.5'	S	11.13.2020 12:00		678472-003
BH-4 @ 6'	S	11.13.2020 14:30		678472-004
BH-5 @ 1.5'	S	11.13.2020 14:00		678472-005

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *678472*

Report Date: *01.29.2021*
Date Received: *11.19.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142956 TPH by SW8015 Mod
Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 678472-003.

Batch: LBA-3143174 TPH by SW8015 Mod
Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 678472-002,678472-001.

eurofins | Environment Testing Xenco

Certificate of Analytical Results 678472

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-1 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678472-001 Date Collected: 11.13.2020 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**337**	4.95	mg/kg	11.20.2020 20:23		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.23.2020 10:00 % Moisture:

Seq Number: 3143174 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.23.2020 19:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.23.2020 19:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.23.2020 19:54	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.23.2020 19:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	11.23.2020 19:54	
o-Terphenyl	84-15-1	134	%	70-130	11.23.2020 19:54	**

eurofins | Environment Testing Xenco

Certificate of Analytical Results 678472

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-1 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678472-001	Date Collected:	11.13.2020 11:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 15:19	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 15:19	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 15:19	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 15:19	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 15:19	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 15:19	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 15:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.21.2020 15:19	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.21.2020 15:19	

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Certificate of Analytical Results 678472

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678472-002 Date Collected: 11.13.2020 11:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**53.1**	5.03	mg/kg	11.20.2020 20:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.23.2020 10:00 % Moisture:

Seq Number: 3143174 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.23.2020 20:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.23.2020 20:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.23.2020 20:14	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.23.2020 20:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	11.23.2020 20:14	
o-Terphenyl	84-15-1	155	%	70-130	11.23.2020 20:14	**

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-2 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678472-002	Date Collected:	11.13.2020 11:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 15:39	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 15:39	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 15:39	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 15:39	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 15:39	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 15:39	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 15:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.21.2020 15:39	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.21.2020 15:39	

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Crazy Wolf 1H

Sample Id: **BH-3 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678472-003 Date Collected: 11.13.2020 12:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**355**	4.98	mg/kg	11.20.2020 20:33		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 20:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 20:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 20:58	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 20:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	62	%	70-130	11.20.2020 20:58	**
o-Terphenyl	84-15-1	71	%	70-130	11.20.2020 20:58	

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Crazy Wolf 1H

Sample Id:	**BH-3 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678472-003	Date Collected:	11.13.2020 12:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 16:00	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 16:00	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 16:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 16:00	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 16:00	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 16:00	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 16:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.21.2020 16:00	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.21.2020 16:00	

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Crazy Wolf 1H

Sample Id: **BH-4 @ 6'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678472-004 Date Collected: 11.13.2020 14:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**60.9**	4.97	mg/kg	11.20.2020 20:49		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.20.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.20.2020 21:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.20.2020 21:18	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.20.2020 21:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	11.20.2020 21:18	
o-Terphenyl	84-15-1	87	%	70-130	11.20.2020 21:18	

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Crazy Wolf 1H

Sample Id:	**BH-4 @ 6'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678472-004	Date Collected:	11.13.2020 14:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.23.2020 14:15	% Moisture:	
Seq Number:	3143123			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	11.24.2020 01:08	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	11.24.2020 01:08	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	11.24.2020 01:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	11.24.2020 01:08	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	11.24.2020 01:08	U	1
Total Xylenes	1330-20-7	ND	0.001990	mg/kg	11.24.2020 01:08	U	1
Total BTEX		ND	0.001990	mg/kg	11.24.2020 01:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.24.2020 01:08	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.24.2020 01:08	

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Crazy Wolf 1H

Sample Id: **BH-5 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678472-005 Date Collected: 11.13.2020 14:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**130**	5.02	mg/kg	11.20.2020 20:54		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 21:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 21:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 21:37	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 21:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	11.20.2020 21:37	
o-Terphenyl	84-15-1	82	%	70-130	11.20.2020 21:37	

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Crazy Wolf 1H

Sample Id:	**BH-5 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678472-005	Date Collected:	11.13.2020 14:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.23.2020 14:15	% Moisture:	
Seq Number:	3143123			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	11.24.2020 01:28	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	11.24.2020 01:28	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	11.24.2020 01:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	11.24.2020 01:28	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	11.24.2020 01:28	U	1
Total Xylenes	1330-20-7	ND	0.001990	mg/kg	11.24.2020 01:28	U	1
Total BTEX		ND	0.001990	mg/kg	11.24.2020 01:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.24.2020 01:28	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.24.2020 01:28	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 678472

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143017 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715637-1-BLK — LCS Sample Id: 7715637-1-BKS — LCSD Sample Id: 7715637-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	259	104	90-110	0	20	mg/kg	11.20.2020 19:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143017 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678206-003 — MS Sample Id: 678206-003 S — MSD Sample Id: 678206-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.63	248	263	103	262	102	90-110	0	20	mg/kg	11.20.2020 19:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143017 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678472-003 — MS Sample Id: 678472-003 S — MSD Sample Id: 678472-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	355	249	605	100	601	99	90-110	1	20	mg/kg	11.20.2020 20:39	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715688-1-BLK — LCS Sample Id: 7715688-1-BKS — LCSD Sample Id: 7715688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	853	85	810	81	70-130	5	20	mg/kg	11.20.2020 13:16	
Diesel Range Organics (DRO)	<50.0	1000	848	85	836	84	70-130	1	20	mg/kg	11.20.2020 13:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	72		86		90		70-130	%	11.20.2020 13:16
o-Terphenyl	88		92		95		70-130	%	11.20.2020 13:16

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143174 — Matrix: Solid — Date Prep: 11.23.2020
MB Sample Id: 7715842-1-BLK — LCS Sample Id: 7715842-1-BKS — LCSD Sample Id: 7715842-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	919	92	885	89	70-130	4	20	mg/kg	11.23.2020 12:26	
Diesel Range Organics (DRO)	<50.0	1000	994	99	960	96	70-130	3	20	mg/kg	11.23.2020 12:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		127		114		70-130	%	11.23.2020 12:26
o-Terphenyl	100		129		98		70-130	%	11.23.2020 12:26

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

QC Summary 678472

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142956 Matrix: Solid Date Prep: 11.20.2020
MB Sample Id: 7715688-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	11.20.2020 12:56	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3143174 Matrix: Solid Date Prep: 11.23.2020
MB Sample Id: 7715842-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	11.23.2020 12:07	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142956 Matrix: Soil Date Prep: 11.20.2020
Parent Sample Id: 678539-001 MS Sample Id: 678539-001 S MSD Sample Id: 678539-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	933	94	893	89	70-130	4	20	mg/kg	11.20.2020 14:15	
Diesel Range Organics (DRO)	<49.8	996	1020	102	913	91	70-130	11	20	mg/kg	11.20.2020 14:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		88		70-130	%	11.20.2020 14:15
o-Terphenyl	108		94		70-130	%	11.20.2020 14:15

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3143174 Matrix: Soil Date Prep: 11.23.2020
Parent Sample Id: 678620-041 MS Sample Id: 678620-041 S MSD Sample Id: 678620-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	892	89	838	84	70-130	6	20	mg/kg	11.23.2020 13:25	
Diesel Range Organics (DRO)	<49.9	998	905	91	903	91	70-130	0	20	mg/kg	11.23.2020 13:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		104		70-130	%	11.23.2020 13:25
o-Terphenyl	123		120		70-130	%	11.23.2020 13:25

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

QC Summary 678472

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Crazy Wolf 1H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142947 — Matrix: Solid — Date Prep: 11.21.2020
MB Sample Id: 7715712-1-BLK — LCS Sample Id: 7715712-1-BKS — LCSD Sample Id: 7715712-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0932	93	0.0954	95	70-130	2	35	mg/kg	11.21.2020 10:35	
Toluene	<0.00200	0.100	0.0916	92	0.0942	94	70-130	3	35	mg/kg	11.21.2020 10:35	
Ethylbenzene	<0.00200	0.100	0.102	102	0.103	103	70-130	1	35	mg/kg	11.21.2020 10:35	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.209	105	70-130	1	35	mg/kg	11.21.2020 10:35	
o-Xylene	<0.00200	0.100	0.102	102	0.103	103	70-130	1	35	mg/kg	11.21.2020 10:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		99		70-130	%	11.21.2020 10:35
4-Bromofluorobenzene	113		106		104		70-130	%	11.21.2020 10:35

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143123 — Matrix: Solid — Date Prep: 11.23.2020
MB Sample Id: 7715846-1-BLK — LCS Sample Id: 7715846-1-BKS — LCSD Sample Id: 7715846-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0886	89	0.0852	85	70-130	4	35	mg/kg	11.23.2020 16:36	
Toluene	<0.00200	0.100	0.0854	85	0.0823	82	70-130	4	35	mg/kg	11.23.2020 16:36	
Ethylbenzene	<0.00200	0.100	0.0897	90	0.0870	87	70-130	3	35	mg/kg	11.23.2020 16:36	
m,p-Xylenes	<0.00400	0.200	0.176	88	0.171	86	70-130	3	35	mg/kg	11.23.2020 16:36	
o-Xylene	<0.00200	0.100	0.0890	89	0.0863	86	70-130	3	35	mg/kg	11.23.2020 16:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		99		70-130	%	11.23.2020 16:36
4-Bromofluorobenzene	105		102		98		70-130	%	11.23.2020 16:36

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142947 — Matrix: Soil — Date Prep: 11.21.2020
Parent Sample Id: 678441-024 — MS Sample Id: 678441-024 S — MSD Sample Id: 678441-024 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	0.0499	50	0.0503	50	70-130	1	35	mg/kg	11.21.2020 11:15	X
Toluene	<0.00200	0.100	0.0538	54	0.0536	54	70-130	0	35	mg/kg	11.21.2020 11:15	X
Ethylbenzene	<0.00200	0.100	0.0653	65	0.0651	65	70-130	0	35	mg/kg	11.21.2020 11:15	X
m,p-Xylenes	<0.00400	0.200	0.124	62	0.124	62	70-130	0	35	mg/kg	11.21.2020 11:15	X
o-Xylene	<0.00200	0.100	0.0676	68	0.0665	67	70-130	2	35	mg/kg	11.21.2020 11:15	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		70-130	%	11.21.2020 11:15
4-Bromofluorobenzene	113		114		70-130	%	11.21.2020 11:15

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 678472

Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3143123 Matrix: Soil Date Prep: 11.23.2020

Parent Sample Id: 678620-037 MS Sample Id: 678620-037 S MSD Sample Id: 678620-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0750	75	0.0805	81	70-130	7	35	mg/kg	11.23.2020 17:17	
Toluene	<0.00200	0.0998	0.0815	82	0.0793	79	70-130	3	35	mg/kg	11.23.2020 17:17	
Ethylbenzene	<0.00200	0.0998	0.0935	94	0.0853	85	70-130	9	35	mg/kg	11.23.2020 17:17	
m,p-Xylenes	<0.00399	0.200	0.192	96	0.171	86	70-130	12	35	mg/kg	11.23.2020 17:17	
o-Xylene	<0.00200	0.0998	0.0956	96	0.0854	85	70-130	11	35	mg/kg	11.23.2020 17:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		100		70-130	%	11.23.2020 17:17
4-Bromofluorobenzene	120		107		70-130	%	11.23.2020 17:17

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 6798472

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 Page _____ of _____

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Matt Green	Due Date:	
PO #:	AFE# or cst# or IOE +CC#		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.5/4.0	Thermometer ID		
Received Intact:	(Yes) No	redJservices	R8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
BH-1 @ 1.5'	S	11/13/2020	1100		1	X	X	X
BH-2 @ 1.5'	S	11/13/2020	1130		1	X	X	X
BH-3 @ 1.5'	S	11/13/2020	1200		1	X	X	X
BH-4 @ 6'	S	11/13/2020	1430		1	X	X	X
BH-5 @ 1.5'	S	11/13/2020	1400		1	X	X	X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/19/2020 14:55	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11.19.2020 02.55.00 PM

Work Order #: 678472

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

Temperature Measuring device used : IR8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.19.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11.20.2020
Jessica Kramer

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Certificate of Analysis Summary 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.19.2020 14:55
Report Date: 01.29.2021 11:26
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678473-001		678473-002		678473-003		678473-004		678473-005		678473-006	
	Field Id:	SSW-1 @ 1.5'		BH-1 @ 1'		ESW-1 @ 1'		WSW-2 @ 1.5'		NSW-2 @ 1.5'		ESW-2 @ 1.5'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.13.2020 10:45		11.12.2020 09:00		11.11.2020 09:30		11.13.2020 10:00		11.13.2020 09:15		11.13.2020 09:30	
BTEX by EPA 8021B	***Extracted:***	11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00	
	Analyzed:	11.21.2020 17:23		11.21.2020 17:43		11.21.2020 18:04		11.21.2020 18:24		11.21.2020 18:44		11.21.2020 19:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
m,p-Xylenes		ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00400
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000
Total BTEX		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000
Chloride by EPA 300	***Extracted:***	11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25		11.20.2020 13:25	
	Analyzed:	11.20.2020 21:11		11.20.2020 21:16		11.20.2020 21:21		11.20.2020 21:26		11.20.2020 21:32		11.20.2020 21:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		13.5	4.99	100	5.04	42.0	5.00	26.2	5.00	148	5.00	537	5.03
TPH by SW8015 Mod	***Extracted:***	11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00	
	Analyzed:	11.20.2020 16:32		11.20.2020 16:52		11.20.2020 17:12		11.20.2020 17:31		11.20.2020 18:40		11.20.2020 18:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	49.9	ND	50.0	ND	49.8	ND	49.9	ND	50.0
Diesel Range Organics (DRO)		ND	50.0	ND	49.9	ND	50.0	ND	49.8	ND	49.9	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	49.9	ND	50.0	ND	49.8	ND	49.9	ND	50.0
Total TPH		ND	50.00	ND	49.90	ND	50.00	ND	49.80	ND	49.90	ND	50.00

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 11.19.2020 14:55
Report Date: 01.29.2021 11:26
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	678473-007		678473-008		678473-009		678473-010		678473-011	
	Field Id:	BH-2 @ 1.5'		BH-3 @ 1.5'		NSW-3 @ 1.5'		BH-4 @ 2'		BH-7 @ 1'	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.11.2020 09:45		11.11.2020 08:30		11.13.2020 10:30		11.11.2020 13:35		11.12.2020 13:00	
BTEX by EPA 8021B	***Extracted:***	11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00		11.21.2020 07:00		11.21.2020 10:00	
	Analyzed:	11.21.2020 19:25		11.21.2020 19:46		11.21.2020 20:06		11.21.2020 20:26		11.22.2020 00:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
m,p-Xylenes		ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00399
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000
Total BTEX		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000
Chloride by EPA 300	***Extracted:***	11.20.2020 13:25		11.23.2020 17:10		11.23.2020 17:10		11.23.2020 17:10		11.23.2020 17:10	
	Analyzed:	11.20.2020 21:42		11.24.2020 05:00		11.24.2020 05:05		11.24.2020 05:22		11.24.2020 05:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		17.0	4.98	190	4.99	26.8	5.00	48.6	5.05	172	5.00
TPH by SW8015 Mod	***Extracted:***	11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00	
	Analyzed:	11.20.2020 19:19		11.20.2020 19:38		11.20.2020 19:58		11.20.2020 20:18		11.20.2020 20:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	49.9	ND	49.8	ND	50.0	ND	49.9
Diesel Range Organics (DRO)		ND	50.0	ND	49.9	ND	49.8	ND	50.0	ND	49.9
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	49.9	ND	49.8	ND	50.0	ND	49.9
Total TPH		ND	50.00	ND	49.90	ND	49.80	ND	50.00	ND	49.90

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 678473

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

12926

01.29.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

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01.29.2021

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **678473**
Crazy Wolf 1H
Project Address: Lea County, New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678473. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678473 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SSW-1 @ 1.5'	S	11.13.2020 10:45		678473-001
BH-1 @ 1'	S	11.12.2020 09:00		678473-002
ESW-1 @ 1'	S	11.11.2020 09:30		678473-003
WSW-2 @ 1.5'	S	11.13.2020 10:00		678473-004
NSW-2 @ 1.5'	S	11.13.2020 09:15		678473-005
ESW-2 @ 1.5'	S	11.13.2020 09:30		678473-006
BH-2 @ 1.5'	S	11.11.2020 09:45		678473-007
BH-3 @ 1.5'	S	11.11.2020 08:30		678473-008
NSW-3 @ 1.5'	S	11.13.2020 10:30		678473-009
BH-4 @ 2'	S	11.11.2020 13:35		678473-010
BH-7 @ 1'	S	11.12.2020 13:00		678473-011

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *678473*

Report Date: *01.29.2021*
Date Received: *11.19.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142948 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 678021-001 SD.

Batch: LBA-3142956 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 678473-003,678473-011,678473-009.

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **SSW-1 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-001 Date Collected: 11.13.2020 10:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.5**	4.99	mg/kg	11.20.2020 21:11		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 16:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 16:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 16:32	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 16:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	11.20.2020 16:32	
o-Terphenyl	84-15-1	82	%	70-130	11.20.2020 16:32	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**SSW-1 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-001	Date Collected:	11.13.2020 10:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 17:23	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 17:23	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 17:23	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 17:23	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 17:23	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 17:23	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 17:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.21.2020 17:23	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.21.2020 17:23	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-1 @ 1'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-002 Date Collected: 11.12.2020 09:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**100**	5.04	mg/kg	11.20.2020 21:16		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.20.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.20.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.20.2020 16:52	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.20.2020 16:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	11.20.2020 16:52	
o-Terphenyl	84-15-1	91	%	70-130	11.20.2020 16:52	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-1 @ 1'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-002	Date Collected:	11.12.2020 09:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 17:43	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 17:43	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 17:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 17:43	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 17:43	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 17:43	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 17:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.21.2020 17:43	
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.21.2020 17:43	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESW-1 @ 1'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-003 Date Collected: 11.11.2020 09:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.0**	5.00	mg/kg	11.20.2020 21:21		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 17:12	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 17:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	66	%	70-130	11.20.2020 17:12	**
o-Terphenyl	84-15-1	75	%	70-130	11.20.2020 17:12	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-1 @ 1'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-003	Date Collected:	11.11.2020 09:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 18:04	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 18:04	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 18:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 18:04	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 18:04	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 18:04	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 18:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.21.2020 18:04	
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.21.2020 18:04	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **WSW-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-004 Date Collected: 11.13.2020 10:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.2**	5.00	mg/kg	11.20.2020 21:26		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.20.2020 17:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.20.2020 17:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.20.2020 17:31	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.20.2020 17:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	11.20.2020 17:31	
o-Terphenyl	84-15-1	81	%	70-130	11.20.2020 17:31	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **WSW-2 @ 1.5'**
Lab Sample Id: 678473-004

Matrix: Soil
Date Collected: 11.13.2020 10:00

Date Received:11.19.2020 14:55

Analytical Method: BTEX by EPA 8021B
Tech: KTL
Analyst: KTL
Seq Number: 3142947

Date Prep: 11.21.2020 07:00

Prep Method: SW5035A
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 18:24	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 18:24	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 18:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 18:24	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 18:24	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 18:24	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 18:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.21.2020 18:24	
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.21.2020 18:24	

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Crazy Wolf 1H

Sample Id: **NSW-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-005 Date Collected: 11.13.2020 09:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**148**	5.00	mg/kg	11.20.2020 21:32		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.20.2020 18:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.20.2020 18:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.20.2020 18:40	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.20.2020 18:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	11.20.2020 18:40	
o-Terphenyl	84-15-1	89	%	70-130	11.20.2020 18:40	

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Crazy Wolf 1H

Sample Id:	**NSW-2 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-005	Date Collected:	11.13.2020 09:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 18:44	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 18:44	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 18:44	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 18:44	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 18:44	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 18:44	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 18:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.21.2020 18:44	
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.21.2020 18:44	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESW-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-006 Date Collected: 11.13.2020 09:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**537**	5.03	mg/kg	11.20.2020 21:37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 18:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 18:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 18:59	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 18:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	11.20.2020 18:59	
o-Terphenyl	84-15-1	89	%	70-130	11.20.2020 18:59	

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Crazy Wolf 1H

Sample Id: **ESW-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-006 Date Collected: 11.13.2020 09:30

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 11.21.2020 07:00 % Moisture:

Seq Number: 3142947 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 19:05	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 19:05	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 19:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 19:05	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 19:05	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 19:05	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.21.2020 19:05	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.21.2020 19:05	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-007 Date Collected: 11.11.2020 09:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:25 % Moisture:

Seq Number: 3143017 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.0**	4.98	mg/kg	11.20.2020 21:42		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 19:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 19:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 19:19	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 19:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-130	11.20.2020 19:19	
o-Terphenyl	84-15-1	86	%	70-130	11.20.2020 19:19	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-2 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-007 Date Collected: 11.11.2020 09:45

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 11.21.2020 07:00 % Moisture:

Seq Number: 3142947 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 19:25	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 19:25	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 19:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 19:25	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 19:25	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 19:25	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 19:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	11.21.2020 19:25	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.21.2020 19:25	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-3 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-008 Date Collected: 11.11.2020 08:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.23.2020 17:10 % Moisture:

Seq Number: 3143154 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**190**	4.99	mg/kg	11.24.2020 05:00		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.20.2020 19:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.20.2020 19:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.20.2020 19:38	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.20.2020 19:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	11.20.2020 19:38	
o-Terphenyl	84-15-1	81	%	70-130	11.20.2020 19:38	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-3 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-008 Date Collected: 11.11.2020 08:30

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 11.21.2020 07:00 % Moisture:

Seq Number: 3142947 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 19:46	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 19:46	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 19:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 19:46	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 19:46	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 19:46	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 19:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.21.2020 19:46	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.21.2020 19:46	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **NSW-3 @ 1.5'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-009 Date Collected: 11.13.2020 10:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.23.2020 17:10 % Moisture:

Seq Number: 3143154 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.8**	5.00	mg/kg	11.24.2020 05:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.20.2020 19:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.20.2020 19:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.20.2020 19:58	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.20.2020 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	65	%	70-130	11.20.2020 19:58	**
o-Terphenyl	84-15-1	72	%	70-130	11.20.2020 19:58	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-3 @ 1.5'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-009	Date Collected:	11.13.2020 10:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 20:06	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 20:06	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 20:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 20:06	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 20:06	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 20:06	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 20:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.21.2020 20:06	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.21.2020 20:06	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-4 @ 2'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-010 Date Collected: 11.11.2020 13:35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.23.2020 17:10 % Moisture:

Seq Number: 3143154 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.6**	5.05	mg/kg	11.24.2020 05:22		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.20.2020 20:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.20.2020 20:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.20.2020 20:18	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.20.2020 20:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-130	11.20.2020 20:18	
o-Terphenyl	84-15-1	84	%	70-130	11.20.2020 20:18	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-4 @ 2'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-010	Date Collected:	11.11.2020 13:35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 07:00	% Moisture:	
Seq Number:	3142947			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.21.2020 20:26	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.21.2020 20:26	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.21.2020 20:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	11.21.2020 20:26	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.21.2020 20:26	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.21.2020 20:26	U	1
Total BTEX		ND	0.002000	mg/kg	11.21.2020 20:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.21.2020 20:26	
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.21.2020 20:26	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-7 @ 1'** Matrix: Soil Date Received:11.19.2020 14:55

Lab Sample Id: 678473-011 Date Collected: 11.12.2020 13:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.23.2020 17:10 % Moisture:

Seq Number: 3143154 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**172**	5.00	mg/kg	11.24.2020 05:48		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.20.2020 20:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.20.2020 20:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.20.2020 20:38	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.20.2020 20:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	66	%	70-130	11.20.2020 20:38	**
o-Terphenyl	84-15-1	76	%	70-130	11.20.2020 20:38	

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Certificate of Analytical Results 678473

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-7 @ 1'**	Matrix:	Soil	Date Received:	11.19.2020 14:55
Lab Sample Id:	678473-011	Date Collected:	11.12.2020 13:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.21.2020 10:00	% Moisture:	
Seq Number:	3142948			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	11.22.2020 00:51	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	11.22.2020 00:51	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	11.22.2020 00:51	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	11.22.2020 00:51	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	11.22.2020 00:51	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	11.22.2020 00:51	U	1
Total BTEX		ND	0.002000	mg/kg	11.22.2020 00:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.22.2020 00:51	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.22.2020 00:51	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 678473

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143017 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715637-1-BLK — LCS Sample Id: 7715637-1-BKS — LCSD Sample Id: 7715637-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	259	104	90-110	0	20	mg/kg	11.20.2020 19:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143154 — Matrix: Solid — Date Prep: 11.23.2020
MB Sample Id: 7715841-1-BLK — LCS Sample Id: 7715841-1-BKS — LCSD Sample Id: 7715841-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	262	105	90-110	0	20	mg/kg	11.24.2020 04:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143017 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678206-003 — MS Sample Id: 678206-003 S — MSD Sample Id: 678206-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.63	248	263	103	262	102	90-110	0	20	mg/kg	11.20.2020 19:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143017 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678472-003 — MS Sample Id: 678472-003 S — MSD Sample Id: 678472-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	355	249	605	100	601	99	90-110	1	20	mg/kg	11.20.2020 20:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143154 — Matrix: Soil — Date Prep: 11.23.2020
Parent Sample Id: 678473-011 — MS Sample Id: 678473-011 S — MSD Sample Id: 678473-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	172	250	444	109	444	109	90-110	0	20	mg/kg	11.24.2020 05:53	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143154 — Matrix: Soil — Date Prep: 11.23.2020
Parent Sample Id: 678792-029 — MS Sample Id: 678792-029 S — MSD Sample Id: 678792-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	49.3	250	309	104	309	104	90-110	0	20	mg/kg	11.24.2020 04:39	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

QC Summary 678473

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715688-1-BLK — LCS Sample Id: 7715688-1-BKS — LCSD Sample Id: 7715688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	853	85	810	81	70-130	5	20	mg/kg	11.20.2020 13:16	
Diesel Range Organics (DRO)	<50.0	1000	848	85	836	84	70-130	1	20	mg/kg	11.20.2020 13:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	72		86		90		70-130	%	11.20.2020 13:16
o-Terphenyl	88		92		95		70-130	%	11.20.2020 13:16

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715688-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	11.20.2020 12:56	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678539-001 — MS Sample Id: 678539-001 S — MSD Sample Id: 678539-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	933	94	893	89	70-130	4	20	mg/kg	11.20.2020 14:15	
Diesel Range Organics (DRO)	<49.8	996	1020	102	913	91	70-130	11	20	mg/kg	11.20.2020 14:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		88		70-130	%	11.20.2020 14:15
o-Terphenyl	108		94		70-130	%	11.20.2020 14:15

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142947 — Matrix: Solid — Date Prep: 11.21.2020
MB Sample Id: 7715712-1-BLK — LCS Sample Id: 7715712-1-BKS — LCSD Sample Id: 7715712-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0932	93	0.0954	95	70-130	2	35	mg/kg	11.21.2020 10:35	
Toluene	<0.00200	0.100	0.0916	92	0.0942	94	70-130	3	35	mg/kg	11.21.2020 10:35	
Ethylbenzene	<0.00200	0.100	0.102	102	0.103	103	70-130	1	35	mg/kg	11.21.2020 10:35	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.209	105	70-130	1	35	mg/kg	11.21.2020 10:35	
o-Xylene	<0.00200	0.100	0.102	102	0.103	103	70-130	1	35	mg/kg	11.21.2020 10:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		99		70-130	%	11.21.2020 10:35
4-Bromofluorobenzene	113		106		104		70-130	%	11.21.2020 10:35

MS/MSD Percent Recovery [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 678473

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142948 — Matrix: Solid — Date Prep: 11.21.2020
MB Sample Id: 7715713-1-BLK — LCS Sample Id: 7715713-1-BKS — LCSD Sample Id: 7715713-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0866	87	0.0887	89	70-130	2	35	mg/kg	11.21.2020 21:28	
Toluene	<0.00200	0.100	0.0846	85	0.0875	88	70-130	3	35	mg/kg	11.21.2020 21:28	
Ethylbenzene	<0.00200	0.100	0.0929	93	0.0952	95	70-130	2	35	mg/kg	11.21.2020 21:28	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.190	95	70-130	3	35	mg/kg	11.21.2020 21:28	
o-Xylene	<0.00200	0.100	0.0927	93	0.0955	96	70-130	3	35	mg/kg	11.21.2020 21:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		99		99		70-130	%	11.21.2020 21:28
4-Bromofluorobenzene	112		109		110		70-130	%	11.21.2020 21:28

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142947 — Matrix: Soil — Date Prep: 11.21.2020
Parent Sample Id: 678441-024 — MS Sample Id: 678441-024 S — MSD Sample Id: 678441-024 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	0.0499	50	0.0503	50	70-130	1	35	mg/kg	11.21.2020 11:15	X
Toluene	<0.00200	0.100	0.0538	54	0.0536	54	70-130	0	35	mg/kg	11.21.2020 11:15	X
Ethylbenzene	<0.00200	0.100	0.0653	65	0.0651	65	70-130	0	35	mg/kg	11.21.2020 11:15	X
m,p-Xylenes	<0.00400	0.200	0.124	62	0.124	62	70-130	0	35	mg/kg	11.21.2020 11:15	X
o-Xylene	<0.00200	0.100	0.0676	68	0.0665	67	70-130	2	35	mg/kg	11.21.2020 11:15	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		70-130	%	11.21.2020 11:15
4-Bromofluorobenzene	113		114		70-130	%	11.21.2020 11:15

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142948 — Matrix: Soil — Date Prep: 11.21.2020
Parent Sample Id: 678021-001 — MS Sample Id: 678021-001 S — MSD Sample Id: 678021-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0596	60	0.0434	43	70-130	31	35	mg/kg	11.21.2020 22:09	X
Toluene	<0.00199	0.0996	0.0480	48	0.0332	33	70-130	36	35	mg/kg	11.21.2020 22:09	XF
Ethylbenzene	<0.00199	0.0996	0.0430	43	0.0273	27	70-130	45	35	mg/kg	11.21.2020 22:09	XF
m,p-Xylenes	<0.00398	0.199	0.0821	41	0.0526	26	70-130	44	35	mg/kg	11.21.2020 22:09	XF
o-Xylene	<0.00199	0.0996	0.0360	36	0.0397	40	70-130	10	35	mg/kg	11.21.2020 22:09	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		95		70-130	%	11.21.2020 22:09
4-Bromofluorobenzene	128		132	**	70-130	%	11.21.2020 22:09

MS/MSD Percent Recovery — [D] = 100*(C-A) / B
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery — [D] = 100 * (C) / [B]
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 6780473

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

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	*Crazy Wolf 1H*	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	*Lea County, New Mexico*	Rush: ☐	
Sampler's Name:	Matt Green	Due Date:	
PO #:	AFE# or cost# or LOE +CC#		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.5/4.0	Thermometer ID	
Received Intact:	(Yes) No	redJservices	RS
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300	Sample Comments
SSW-1 @ 1.5'	S	11/13/2020	1045		1	X	X	X	
BH-1 @ 1'	S	11/12/2020	900		1	X	X	X	
ESW-1 @ 1'	S	11/11/2020	930		1	X	X	X	
WSW-2 @ 1.5'	S	11/13/2020	1000		1	X	X	X	
NSW-2 @ 1.5'	S	11/13/2020	915		1	X	X	X	
ESW-2 @ 1.5'	S	11/13/2020	930		1	X	X	X	
BH-2 @ 1.5'	S	11/11/2020	945		1	X	X	X	
BH-3 @ 1.5'	S	11/11/2020	830		1	X	X	X	
NSW-3 @ 1.5'	S	11/13/2020	1030		1	X	X	X	
BH-4 @ 2'	S	11/11/2020	1335		1	X	X	X	

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/19/2020 1455	2		
3			4		
5			6		

Chain of Custody

Work Order No: 6798473

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

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200 Email:	Matt@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting: Level I ☐ Level ☐ PST/US ☐ TRP ☐ Level V ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	*Crazy Wolf 1H*	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	*Lea County, New Mexico*	Rush: ☐	
Sampler's Name:	Matt Green	Due Date:	
PO #:	AFE# or pat# or LOE -CC#		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.5/4.0	Thermometer ID		
Received Intact:	(Yes) No	redJservices	R8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300	Sample Comments
BH-7 @ 1'	S	11/12/2020	1300		1	X	X	X	

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Matt		11/19/2020 14:55	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11.19.2020 02.55.00 PM

Work Order #: 678473

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

Temperature Measuring device used : IR8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.19.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11.20.2020

Jessica Kramer

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678987-001		678987-002		678987-003		678987-004		678987-005		678987-006	
	Field Id:	ESS-1 @ 1'		ESS-2 @ 1'		ESS-3 @ 1'		WSS-1 @ 1'		WSS-2 @ 1'		WSS-3 @ 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.20.2020 08:00		11.20.2020 08:05		11.20.2020 08:10		11.20.2020 08:15		11.20.2020 08:20		11.20.2020 08:25	
BTEX by EPA 8021B	***Extracted:***	12.01.2020 12:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		11.30.2020 08:00		12.02.2020 16:00	
	Analyzed:	12.02.2020 08:08		12.02.2020 05:53		12.02.2020 06:14		12.02.2020 06:34		12.01.2020 05:57		12.02.2020 20:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00200	ND	0.00200
Toluene		ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00200	ND	0.00200
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00200	ND	0.00200
m,p-Xylenes		ND	0.00400	ND	0.00399	ND	0.00398	ND	0.00399	ND	0.00399	ND	0.00400
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00200	ND	0.00200
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.001990	ND	0.002000	ND	0.002000	ND	0.002000
Total BTEX		ND	0.002000	ND	0.002000	ND	0.001990	ND	0.002000	ND	0.002000	ND	0.002000
Chloride by EPA 300	***Extracted:***	11.25.2020 11:30		11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25	
	Analyzed:	11.25.2020 19:33		11.25.2020 14:52		11.25.2020 15:14		11.25.2020 15:21		11.25.2020 15:29		11.25.2020 15:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		12.4	5.00	113	5.04	393	4.98	6.78	4.98	10.2	4.98	1650	24.8
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00	
	Analyzed:	11.26.2020 21:22		11.26.2020 22:30		11.26.2020 22:52		11.26.2020 23:15		11.26.2020 23:38		11.27.2020 00:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.9	ND	50.0	ND	50.0
Diesel Range Organics (DRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.9	ND	50.0	90.6	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.9	ND	50.0	ND	50.0
Total TPH		ND	49.90	ND	49.90	ND	50.00	ND	49.90	ND	50.00	90.60	50.00

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678987-007		678987-008		678987-009		678987-010		678987-011		678987-012	
	Field Id:	NSW-1 @ 1'		NSW-2 @ 1.5'		SSW-2 @ 1.5'		NSW-4 @ 2'		SSW-4@ 2'		ESW-4 @ 2'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.20.2020 08:30		11.20.2020 08:35		11.20.2020 08:40		11.20.2020 08:45		11.20.2020 08:50		11.20.2020 08:55	
BTEX by EPA 8021B	***Extracted:***	12.03.2020 15:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		12.02.2020 16:00		12.01.2020 17:00	
	Analyzed:	12.03.2020 18:58		12.02.2020 07:15		12.02.2020 07:35		12.02.2020 07:56		12.02.2020 18:42		12.02.2020 08:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00198	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00200	ND	0.00198
Toluene		ND	0.00198	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00200	ND	0.00198
Ethylbenzene		ND	0.00198	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00200	ND	0.00198
m,p-Xylenes		ND	0.00397	ND	0.00401	ND	0.00402	ND	0.00402	ND	0.00400	ND	0.00397
o-Xylene		ND	0.00198	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00200	ND	0.00198
Total Xylenes		ND	0.001980	ND	0.002000	ND	0.002010	ND	0.002010	ND	0.002000	ND	0.001980
Total BTEX		ND	0.001980	ND	0.002000	ND	0.002010	ND	0.002010	ND	0.002000	ND	0.001980
Chloride by EPA 300	***Extracted:***	11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25		11.25.2020 14:25	
	Analyzed:	11.25.2020 15:58		11.25.2020 16:05		11.25.2020 16:13		11.25.2020 16:20		11.25.2020 16:27		11.25.2020 18:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1210	5.00	31.7	5.01	22.9	5.05	4320	25.0	262	4.97	2240	24.8
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00	
	Analyzed:	11.27.2020 00:23		11.27.2020 00:46		11.27.2020 01:09		11.27.2020 01:31		11.27.2020 02:16		11.27.2020 02:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	49.8	ND	49.9	ND	49.8	ND	49.9	ND	50.0
Diesel Range Organics (DRO)		ND	50.0	ND	49.8	ND	49.9	ND	49.8	ND	49.9	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	49.8	ND	49.9	ND	49.8	ND	49.9	ND	50.0
Total TPH		ND	50.00	ND	49.80	ND	49.90	ND	49.80	ND	49.90	ND	50.00

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678987-013		678987-014		678987-015		678987-016		678987-017		678987-018	
	Field Id:	NSW-5 @ 1'		SSW-5 @ 1'		ESW-5 @ 1'		WSW-5 @ 1'		SSW-6 @ 1.5'		WSW-6 @ 1.5'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.20.2020 09:00		11.20.2020 09:05		11.20.2020 09:10		11.20.2020 09:15		11.20.2020 09:20		11.20.2020 09:25	
BTEX by EPA 8021B	***Extracted:***	12.01.2020 17:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 16:00	
	Analyzed:	12.02.2020 05:33		12.02.2020 19:58		12.02.2020 20:19		12.02.2020 20:39		12.02.2020 21:00		12.02.2020 18:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
m,p-Xylenes		ND	0.00399	ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00399
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000
Total BTEX		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000	ND	0.002000
Chloride by EPA 300	***Extracted:***	11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56	
	Analyzed:	11.30.2020 13:43		11.30.2020 13:59		11.30.2020 14:04		11.30.2020 14:09		11.30.2020 14:15		11.30.2020 14:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		124	4.99	4150	24.9	21.9	4.98	5110	50.4	7540	50.5	9410	101
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00	
	Analyzed:	11.27.2020 03:02		11.27.2020 03:24		11.27.2020 03:47		11.27.2020 04:10		11.27.2020 04:32		11.27.2020 04:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	50.0	ND	50.0	ND	49.8	ND	50.0	ND	50.0
Diesel Range Organics (DRO)		ND	49.9	ND	50.0	ND	50.0	ND	49.8	ND	50.0	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	50.0	ND	50.0	ND	49.8	ND	50.0	ND	50.0
Total TPH		ND	49.90	ND	50.00	ND	50.00	ND	49.80	ND	50.00	ND	50.00

BRL - Below Reporting Limit

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

Jessica Kramer

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678987-019		678987-020		678987-021		678987-022		678987-023		678987-024	
	Field Id:	NSW-7 @ 1.5'		SSW-7 @ 1.5'		NSW-8@ 1.5'		SSW-8 @ 1.5'		ESW-8 @ 1.5'		BH-9 @ 3'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.20.2020 09:30		11.20.2020 09:35		11.20.2020 09:40		11.20.2020 09:45		11.20.2020 09:50		11.20.2020 09:55	
BTEX by EPA 8021B	***Extracted:***	12.02.2020 08:00		12.03.2020 17:00		12.02.2020 16:00		12.02.2020 16:00		12.02.2020 16:00		12.03.2020 15:00	
	Analyzed:	12.02.2020 21:21		12.04.2020 07:14		12.02.2020 19:23		12.02.2020 19:43		12.02.2020 20:04		12.03.2020 19:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00202	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00199
Toluene		ND	0.00200	ND	0.00202	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00199
Ethylbenzene		ND	0.00200	ND	0.00202	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00199
m,p-Xylenes		ND	0.00400	ND	0.00403	ND	0.00401	ND	0.00402	ND	0.00402	ND	0.00398
o-Xylene		ND	0.00200	ND	0.00202	ND	0.00200	ND	0.00201	ND	0.00201	ND	0.00199
Total Xylenes		ND	0.002000	ND	0.002020	ND	0.002000	ND	0.002010	ND	0.002010	ND	0.001990
Total BTEX		ND	0.002000	ND	0.002020	ND	0.002000	ND	0.002010	ND	0.002010	ND	0.001990
Chloride by EPA 300	***Extracted:***	11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56	
	Analyzed:	11.30.2020 14:36		11.30.2020 14:41		11.30.2020 14:46		11.30.2020 14:51		11.30.2020 14:57		11.30.2020 15:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3630	25.3	1000	4.98	17.8	5.00	208	4.99	1510	25.0	3410	25.0
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00	
	Analyzed:	11.27.2020 05:18		11.27.2020 05:40		11.26.2020 21:22		11.26.2020 22:30		11.26.2020 22:52		11.26.2020 23:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.8	ND	49.9	ND	50.0
Diesel Range Organics (DRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.8	ND	49.9	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.8	ND	49.9	ND	50.0
Total TPH		ND	49.90	ND	49.90	ND	50.00	ND	49.80	ND	49.90	ND	50.00

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678987-025		678987-026		678987-027		678987-028		678987-029		678987-030	
	Field Id:	ESW-9 @ 3'		WSW-9 @ 3'		BH-10 @ 3'		WSW-10 @ 3'		ESW-10 @ 3'		BH-11 @ 3'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.20.2020 10:00		11.20.2020 10:10		11.20.2020 10:15		11.20.2020 10:20		11.20.2020 10:25		11.20.2020 10:30	
BTEX by EPA 8021B	***Extracted:***	12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.03.2020 15:00		12.02.2020 08:00		12.03.2020 15:00	
	Analyzed:	12.02.2020 18:35		12.02.2020 18:55		12.02.2020 19:16		12.03.2020 19:39		12.02.2020 18:30		12.03.2020 20:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00201	ND	0.00200
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00201	ND	0.00200
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00201	ND	0.00200
m,p-Xylenes		ND	0.00400	ND	0.00400	ND	0.00400	ND	0.00396	ND	0.00402	ND	0.00399
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00201	ND	0.00200
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.001980	ND	0.002010	ND	0.002000
Total BTEX		ND	0.002000	ND	0.002000	ND	0.002000	ND	0.001980	ND	0.002010	ND	0.002000
Chloride by EPA 300	***Extracted:***	11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:56	
	Analyzed:	11.30.2020 15:18		11.30.2020 15:34		11.30.2020 15:39		11.30.2020 15:44		11.30.2020 15:49		11.30.2020 15:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		61.7	5.03	39.1	5.02	5470	49.8	140	4.97	1010	4.96	12400	101
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00	
	Analyzed:	11.26.2020 23:38		11.27.2020 00:00		11.27.2020 00:23		11.27.2020 00:46		11.27.2020 01:09		11.27.2020 01:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	49.8	ND	50.0	ND	49.9	ND	49.8	ND	50.0
Diesel Range Organics (DRO)		ND	49.9	ND	49.8	ND	50.0	ND	49.9	ND	49.8	86.7	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	49.8	ND	50.0	ND	49.9	ND	49.8	ND	50.0
Total TPH		ND	49.90	ND	49.80	ND	50.00	ND	49.90	ND	49.80	86.70	50.00

BRL - Below Reporting Limit

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

Jessica Kramer

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	678987-031		678987-032		678987-033		678987-034		678987-035		678987-036	
	Field Id:	NSW-11 @ 3'		ESW-11 @ 3'		WSW-11 @ 3'		BH-12 @ 6"		NSW-12 @ 6"		SSW-12 @ 6"	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.20.2020 10:35		11.20.2020 10:40		11.20.2020 10:45		11.20.2020 10:50		11.20.2020 10:55		11.20.2020 11:00	
BTEX by EPA 8021B	***Extracted:***	12.03.2020 15:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00	
	Analyzed:	12.03.2020 20:20		12.02.2020 19:49		12.02.2020 15:54		12.02.2020 21:36		12.02.2020 22:02		12.02.2020 22:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00198	0.0823	0.00199	0.00264	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
Toluene		ND	0.00198	0.00918	0.00199	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
Ethylbenzene		ND	0.00198	0.00603	0.00199	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
m,p-Xylenes		ND	0.00397	ND	0.00398	ND	0.00399	ND	0.00396	ND	0.00399	ND	0.00402
o-Xylene		ND	0.00198	0.00372	0.00199	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
Total Xylenes		ND	0.001980	0.003720	0.001990	ND	0.002000	ND	0.001980	ND	0.002000	ND	0.002010
Total BTEX		ND	0.001980	0.1012	0.001990	0.002640	0.002000	ND	0.001980	ND	0.002000	ND	0.002010
Chloride by EPA 300	***Extracted:***	11.25.2020 09:56		11.25.2020 09:56		11.25.2020 09:58		11.25.2020 09:58		11.25.2020 09:58		11.25.2020 09:58	
	Analyzed:	11.30.2020 16:00		11.30.2020 16:05		11.25.2020 18:54		11.25.2020 19:16		11.25.2020 19:24		11.25.2020 19:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1290	5.04	3100	25.2	2620	24.9	104	5.03	14800	100	3540	24.8
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00		11.26.2020 11:00	
	Analyzed:	11.27.2020 02:16		11.27.2020 02:39		11.27.2020 03:02		11.27.2020 03:24		11.27.2020 03:47		11.27.2020 04:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.9	ND	50.0	ND	49.8
Diesel Range Organics (DRO)		68.1	49.9	ND	49.9	ND	50.0	ND	49.9	847	50.0	ND	49.8
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	49.9	ND	50.0	ND	49.9	190	50.0	ND	49.8
Total TPH		68.10	49.90	ND	49.90	ND	50.00	ND	49.90	1037	50.00	ND	49.80

BRL - Below Reporting Limit

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

Jessica Kramer

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Certificate of Analysis Summary 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Tue 11.24.2020 16:37
Report Date: 01.29.2021 11:31
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	678987-037		678987-038					
	Field Id:	ESW-12 @ 6"		WSW-12 @ 6"					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	11.20.2020 11:05		11.20.2020 11:10					
BTEX by EPA 8021B	***Extracted:***	12.02.2020 08:00		12.02.2020 08:00					
	Analyzed:	12.02.2020 22:55		12.02.2020 23:21					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		0.00290	0.00200	0.00647	0.00201				
Toluene		ND	0.00200	0.00205	0.00201				
Ethylbenzene		ND	0.00200	0.00569	0.00201				
m,p-Xylenes		ND	0.00399	0.00509	0.00402				
o-Xylene		ND	0.00200	0.00368	0.00201				
Total Xylenes		ND	0.002000	0.008770	0.002010				
Total BTEX		0.002900	0.002000	0.02298	0.002010				
Chloride by EPA 300	***Extracted:***	11.25.2020 09:58		11.25.2020 09:58					
	Analyzed:	11.25.2020 19:38		11.25.2020 20:00					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		17700	99.4	2080	25.1				
TPH by SW8015 Mod	***Extracted:***	11.26.2020 11:00		11.26.2020 11:00					
	Analyzed:	11.27.2020 04:32		11.27.2020 04:55					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	50.0				
Diesel Range Organics (DRO)		542	49.9	ND	50.0				
Motor Oil Range Hydrocarbons (MRO)		321	49.9	ND	50.0				
Total TPH		863.0	49.90	ND	50.00				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 678987

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

12926

01.29.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

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01.29.2021

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **678987**
Crazy Wolf 1H
Project Address: Lea County, New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678987. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678987 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
ESS-1 @ 1'	S	11.20.2020 08:00		678987-001
ESS-2 @ 1'	S	11.20.2020 08:05		678987-002
ESS-3 @ 1'	S	11.20.2020 08:10		678987-003
WSS-1 @ 1'	S	11.20.2020 08:15		678987-004
WSS-2 @ 1'	S	11.20.2020 08:20		678987-005
WSS-3 @ 1'	S	11.20.2020 08:25		678987-006
NSW-1 @ 1'	S	11.20.2020 08:30		678987-007
NSW-2 @ 1.5'	S	11.20.2020 08:35		678987-008
SSW-2 @ 1.5'	S	11.20.2020 08:40		678987-009
NSW-4 @ 2'	S	11.20.2020 08:45		678987-010
SSW-4@ 2'	S	11.20.2020 08:50		678987-011
ESW-4 @ 2'	S	11.20.2020 08:55		678987-012
NSW-5 @ 1'	S	11.20.2020 09:00		678987-013
SSW-5 @ 1'	S	11.20.2020 09:05		678987-014
ESW-5 @ 1'	S	11.20.2020 09:10		678987-015
WSW-5 @ 1'	S	11.20.2020 09:15		678987-016
SSW-6 @ 1.5'	S	11.20.2020 09:20		678987-017
WSW-6 @ 1.5'	S	11.20.2020 09:25		678987-018
NSW-7 @ 1.5'	S	11.20.2020 09:30		678987-019
SSW-7 @ 1.5'	S	11.20.2020 09:35		678987-020
NSW-8@ 1.5'	S	11.20.2020 09:40		678987-021
SSW-8 @ 1.5'	S	11.20.2020 09:45		678987-022
ESW-8 @ 1.5'	S	11.20.2020 09:50		678987-023
BH-9 @ 3'	S	11.20.2020 09:55		678987-024
ESW-9 @ 3'	S	11.20.2020 10:00		678987-025
WSW-9 @ 3'	S	11.20.2020 10:10		678987-026
BH-10 @ 3'	S	11.20.2020 10:15		678987-027
WSW-10 @ 3'	S	11.20.2020 10:20		678987-028
ESW-10 @ 3'	S	11.20.2020 10:25		678987-029
BH-11 @ 3'	S	11.20.2020 10:30		678987-030
NSW-11 @ 3'	S	11.20.2020 10:35		678987-031
ESW-11 @ 3'	S	11.20.2020 10:40		678987-032
WSW-11 @ 3'	S	11.20.2020 10:45		678987-033
BH-12 @ 6"	S	11.20.2020 10:50		678987-034
NSW-12 @ 6"	S	11.20.2020 10:55		678987-035
SSW-12 @ 6"	S	11.20.2020 11:00		678987-036
ESW-12 @ 6"	S	11.20.2020 11:05		678987-037
WSW-12 @ 6"	S	11.20.2020 11:10		678987-038

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *678987*

Report Date: *01.29.2021*
Date Received: *11.24.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3143528 BTEX by EPA 8021B

Toluene recovered above QC limits in the Blank Spike Duplicate indicating a potential high bias. Samples in the analytical batch are: 678987-005, -006.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected
Samples affected are: 679026-001 S.

Batch: LBA-3143699 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678984-021 S.

Batch: LBA-3143707 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected;s.
Samples affected are: 678987-007,678987-011.
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678987-011,678987-007.

Lab Sample ID 678987-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).
Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike.
Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678987-002, -003, -004, -007, -008, -009, -010, -011, -012, -013.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 678987-002, -003, -004, -007, -008, -009, -010, -011, -012, -013

Benzene recovered above QC limits in the laboratory control sample. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples in the analytical batch are: 678987-002, -003, -004, -007, -008, -009, -010, -011, -012, -013.

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *678987*

Report Date: *01.29.2021*
Date Received: *11.24.2020*

Batch: LBA-3143782 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678987-028,678987-031.
Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678987-031,678987-028,678987-038.
Surrogate 4-Bromofluorobenzene recovered above QC limits . Samples affected are: 7716325-1-BKS,7716325-1-BSD,678987-033 S,678987-033 SD,678987-036,678987-034.

Batch: LBA-3143802 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678987-014,678987-015,678987-016,678987-017,678987-019.
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678987-019,678987-014,678987-015,678987-016,678987-017,678987-026.

Batch: LBA-3143824 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 678987-023,678987-021.

Batch: LBA-3143914 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene, Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 679278-001 SD.

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Certificate of Analytical Results 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESS-1 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-001 Date Collected: 11.20.2020 08:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.25.2020 11:30 % Moisture:

Seq Number: 3143456 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.4**	5.00	mg/kg	11.25.2020 19:33		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.26.2020 21:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.26.2020 21:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.26.2020 21:22	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.26.2020 21:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	11.26.2020 21:22	
o-Terphenyl	84-15-1	106	%	70-130	11.26.2020 21:22	

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Certificate of Analytical Results 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESS-1 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-001	Date Collected:	11.20.2020 08:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 12:00	% Moisture:	
Seq Number:	3143699			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 08:08	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 08:08	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 08:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 08:08	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 08:08	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 08:08	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 08:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.02.2020 08:08	
1,4-Difluorobenzene	540-36-3	88	%	70-130	12.02.2020 08:08	

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Certificate of Analytical Results 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESS-2 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-002 Date Collected: 11.20.2020 08:05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**113**	5.04	mg/kg	11.25.2020 14:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.26.2020 22:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.26.2020 22:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.26.2020 22:30	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.26.2020 22:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	11.26.2020 22:30	
o-Terphenyl	84-15-1	96	%	70-130	11.26.2020 22:30	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESS-2 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-002	Date Collected:	11.20.2020 08:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 05:53	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 05:53	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 05:53	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 05:53	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 05:53	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 05:53	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 05:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	70-130	12.02.2020 05:53	
4-Bromofluorobenzene	460-00-4	118	%	70-130	12.02.2020 05:53	

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Crazy Wolf 1H

Sample Id: **ESS-3 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-003 Date Collected: 11.20.2020 08:10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**393**	4.98	mg/kg	11.25.2020 15:14		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.26.2020 22:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.26.2020 22:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.26.2020 22:52	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.26.2020 22:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	11.26.2020 22:52	
o-Terphenyl	84-15-1	99	%	70-130	11.26.2020 22:52	

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Crazy Wolf 1H

Sample Id:	**ESS-3 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-003	Date Collected:	11.20.2020 08:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	12.02.2020 06:14	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	12.02.2020 06:14	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	12.02.2020 06:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	12.02.2020 06:14	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	12.02.2020 06:14	U	1
Total Xylenes	1330-20-7	ND	0.001990	mg/kg	12.02.2020 06:14	U	1
Total BTEX		ND	0.001990	mg/kg	12.02.2020 06:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	12.02.2020 06:14	
1,4-Difluorobenzene	540-36-3	92	%	70-130	12.02.2020 06:14	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **WSS-1 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-004 Date Collected: 11.20.2020 08:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.78**	4.98	mg/kg	11.25.2020 15:21		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.26.2020 23:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.26.2020 23:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.26.2020 23:15	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.26.2020 23:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	11.26.2020 23:15	
o-Terphenyl	84-15-1	94	%	70-130	11.26.2020 23:15	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSS-1 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-004	Date Collected:	11.20.2020 08:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 06:34	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 06:34	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 06:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 06:34	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 06:34	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 06:34	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 06:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.02.2020 06:34	
4-Bromofluorobenzene	460-00-4	113	%	70-130	12.02.2020 06:34	

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Crazy Wolf 1H

Sample Id: **WSS-2 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-005 Date Collected: 11.20.2020 08:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.2**	4.98	mg/kg	11.25.2020 15:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.26.2020 23:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.26.2020 23:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.26.2020 23:38	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.26.2020 23:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	11.26.2020 23:38	
o-Terphenyl	84-15-1	97	%	70-130	11.26.2020 23:38	

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Crazy Wolf 1H

Sample Id:	**WSS-2 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-005	Date Collected:	11.20.2020 08:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	11.30.2020 08:00	% Moisture:	
Seq Number:	3143528			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.01.2020 05:57	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.01.2020 05:57	UH	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.01.2020 05:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.01.2020 05:57	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.01.2020 05:57	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.01.2020 05:57	U	1
Total BTEX		ND	0.002000	mg/kg	12.01.2020 05:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	152	%	70-130	12.01.2020 05:57	**
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.01.2020 05:57	

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Crazy Wolf 1H

Sample Id: **WSS-3 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-006 Date Collected: 11.20.2020 08:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1650**	24.8	mg/kg	11.25.2020 15:36		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 00:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**90.6**	50.0	mg/kg	11.27.2020 00:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 00:00	U	1
Total TPH	PHC635	**90.60**	50.00	mg/kg	11.27.2020 00:00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	11.27.2020 00:00	
o-Terphenyl	84-15-1	104	%	70-130	11.27.2020 00:00	

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Crazy Wolf 1H

Sample Id:	**WSS-3 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-006	Date Collected:	11.20.2020 08:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 16:00	% Moisture:	
Seq Number:	3143824			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 20:24	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 20:24	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 20:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 20:24	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 20:24	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 20:24	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 20:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.02.2020 20:24	
1,4-Difluorobenzene	540-36-3	89	%	70-130	12.02.2020 20:24	

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Crazy Wolf 1H

Sample Id: **NSW-1 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-007 Date Collected: 11.20.2020 08:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1210**	5.00	mg/kg	11.25.2020 15:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 00:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 00:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 00:23	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 00:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	11.27.2020 00:23	
o-Terphenyl	84-15-1	93	%	70-130	11.27.2020 00:23	

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Crazy Wolf 1H

Sample Id:	**NSW-1 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-007	Date Collected:	11.20.2020 08:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 15:00	% Moisture:	
Seq Number:	3143913			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	12.03.2020 18:58	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	12.03.2020 18:58	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	12.03.2020 18:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	12.03.2020 18:58	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	12.03.2020 18:58	U	1
Total Xylenes	1330-20-7	ND	0.001980	mg/kg	12.03.2020 18:58	U	1
Total BTEX		ND	0.001980	mg/kg	12.03.2020 18:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.03.2020 18:58	
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.03.2020 18:58	

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Crazy Wolf 1H

Sample Id: **NSW-2 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-008 Date Collected: 11.20.2020 08:35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.7**	5.01	mg/kg	11.25.2020 16:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.27.2020 00:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.27.2020 00:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.27.2020 00:46	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.27.2020 00:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	11.27.2020 00:46	
o-Terphenyl	84-15-1	95	%	70-130	11.27.2020 00:46	

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Crazy Wolf 1H

Sample Id:	**NSW-2 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-008	Date Collected:	11.20.2020 08:35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 07:15	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 07:15	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 07:15	U	1
m,p-Xylenes	179601-23-1	ND	0.00401	mg/kg	12.02.2020 07:15	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 07:15	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 07:15	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 07:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.02.2020 07:15	
4-Bromofluorobenzene	460-00-4	113	%	70-130	12.02.2020 07:15	

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Crazy Wolf 1H

Sample Id: **SSW-2 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-009 Date Collected: 11.20.2020 08:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.9**	5.05	mg/kg	11.25.2020 16:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 01:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 01:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 01:09	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 01:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	11.27.2020 01:09	
o-Terphenyl	84-15-1	91	%	70-130	11.27.2020 01:09	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**SSW-2 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-009	Date Collected:	11.20.2020 08:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.02.2020 07:35	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.02.2020 07:35	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.02.2020 07:35	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.02.2020 07:35	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.02.2020 07:35	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.02.2020 07:35	U	1
Total BTEX		ND	0.002010	mg/kg	12.02.2020 07:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.02.2020 07:35	
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.02.2020 07:35	

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Crazy Wolf 1H

Sample Id: **NSW-4 @ 2'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-010 Date Collected: 11.20.2020 08:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4320**	25.0	mg/kg	11.25.2020 16:20		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.27.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.27.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.27.2020 01:31	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.27.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	11.27.2020 01:31	
o-Terphenyl	84-15-1	113	%	70-130	11.27.2020 01:31	

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Crazy Wolf 1H

Sample Id:	**NSW-4 @ 2'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-010	Date Collected:	11.20.2020 08:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.02.2020 07:56	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.02.2020 07:56	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.02.2020 07:56	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.02.2020 07:56	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.02.2020 07:56	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.02.2020 07:56	U	1
Total BTEX		ND	0.002010	mg/kg	12.02.2020 07:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.02.2020 07:56	
4-Bromofluorobenzene	460-00-4	111	%	70-130	12.02.2020 07:56	

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Crazy Wolf 1H

Sample Id: **SSW-4@ 2'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-011 Date Collected: 11.20.2020 08:50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	4.97	mg/kg	11.25.2020 16:27		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 02:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 02:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 02:16	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 02:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	11.27.2020 02:16	
o-Terphenyl	84-15-1	93	%	70-130	11.27.2020 02:16	

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Crazy Wolf 1H

Sample Id:	**SSW-4@ 2'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-011	Date Collected:	11.20.2020 08:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 16:00	% Moisture:	
Seq Number:	3143824			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 18:42	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 18:42	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 18:42	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 18:42	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 18:42	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 18:42	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 18:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.02.2020 18:42	
4-Bromofluorobenzene	460-00-4	88	%	70-130	12.02.2020 18:42	

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Crazy Wolf 1H

Sample Id: **ESW-4 @ 2'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-012 Date Collected: 11.20.2020 08:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 14:25 % Moisture:

Seq Number: 3143453 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2240**	24.8	mg/kg	11.25.2020 18:10		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 02:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 02:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 02:39	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 02:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	11.27.2020 02:39	
o-Terphenyl	84-15-1	120	%	70-130	11.27.2020 02:39	

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Crazy Wolf 1H

Sample Id:	**ESW-4 @ 2'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-012	Date Collected:	11.20.2020 08:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	12.02.2020 08:37	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	12.02.2020 08:37	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	12.02.2020 08:37	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	12.02.2020 08:37	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	12.02.2020 08:37	U	1
Total Xylenes	1330-20-7	ND	0.001980	mg/kg	12.02.2020 08:37	U	1
Total BTEX		ND	0.001980	mg/kg	12.02.2020 08:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.02.2020 08:37	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.02.2020 08:37	

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Crazy Wolf 1H

Sample Id: **NSW-5 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-013 Date Collected: 11.20.2020 09:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**124**	4.99	mg/kg	11.30.2020 13:43		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 03:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 03:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 03:02	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 03:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	11.27.2020 03:02	
o-Terphenyl	84-15-1	107	%	70-130	11.27.2020 03:02	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-5 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-013	Date Collected:	11.20.2020 09:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143707			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 05:33	UFX	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 05:33	UXF	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 05:33	UXF	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 05:33	UFX	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 05:33	UXF	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 05:33	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 05:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	86	%	70-130	12.02.2020 05:33	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.02.2020 05:33	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**SSW-5 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-014	Date Collected:	11.20.2020 09:05		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	11.25.2020 09:56	% Moisture:	
Seq Number:	3143491			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4150**	24.9	mg/kg	11.30.2020 13:59		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	ARM				
Analyst:	ARM	Date Prep:	11.26.2020 11:00	% Moisture:	
Seq Number:	3143384			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 03:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 03:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 03:24	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 03:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	11.27.2020 03:24	
o-Terphenyl	84-15-1	114	%	70-130	11.27.2020 03:24	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**SSW-5 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-014	Date Collected:	11.20.2020 09:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 19:58	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 19:58	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 19:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 19:58	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 19:58	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 19:58	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	0	%	70-130	12.02.2020 19:58	**
1,4-Difluorobenzene	540-36-3	0	%	70-130	12.02.2020 19:58	**

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESW-5 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-015 Date Collected: 11.20.2020 09:10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.9**	4.98	mg/kg	11.30.2020 14:04		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 03:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 03:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 03:47	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 03:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	11.27.2020 03:47	
o-Terphenyl	84-15-1	105	%	70-130	11.27.2020 03:47	

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Crazy Wolf 1H

Sample Id:	**ESW-5 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-015	Date Collected:	11.20.2020 09:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 20:19	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 20:19	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 20:19	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 20:19	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 20:19	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 20:19	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 20:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	0	%	70-130	12.02.2020 20:19	**
4-Bromofluorobenzene	460-00-4	0	%	70-130	12.02.2020 20:19	**

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Crazy Wolf 1H

Sample Id: **WSW-5 @ 1'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-016 Date Collected: 11.20.2020 09:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5110**	50.4	mg/kg	11.30.2020 14:09		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.27.2020 04:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.27.2020 04:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.27.2020 04:10	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.27.2020 04:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	11.27.2020 04:10	
o-Terphenyl	84-15-1	90	%	70-130	11.27.2020 04:10	

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Crazy Wolf 1H

Sample Id:	**WSW-5 @ 1'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-016	Date Collected:	11.20.2020 09:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 20:39	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 20:39	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 20:39	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 20:39	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 20:39	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 20:39	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 20:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	0	%	70-130	12.02.2020 20:39	**
1,4-Difluorobenzene	540-36-3	0	%	70-130	12.02.2020 20:39	**

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Certificate of Analytical Results 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **SSW-6 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-017 Date Collected: 11.20.2020 09:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7540**	50.5	mg/kg	11.30.2020 14:15		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 04:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 04:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 04:32	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 04:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	11.27.2020 04:32	
o-Terphenyl	84-15-1	98	%	70-130	11.27.2020 04:32	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**SSW-6 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-017	Date Collected:	11.20.2020 09:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 21:00	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 21:00	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 21:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 21:00	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 21:00	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 21:00	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 21:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	0	%	70-130	12.02.2020 21:00	**
4-Bromofluorobenzene	460-00-4	0	%	70-130	12.02.2020 21:00	**

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **WSW-6 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-018 Date Collected: 11.20.2020 09:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9410**	101	mg/kg	11.30.2020 14:30		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 04:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 04:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 04:55	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	11.27.2020 04:55	
o-Terphenyl	84-15-1	108	%	70-130	11.27.2020 04:55	

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Crazy Wolf 1H

Sample Id:	**WSW-6 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-018	Date Collected:	11.20.2020 09:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 16:00	% Moisture:	
Seq Number:	3143824			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 18:21	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 18:21	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 18:21	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 18:21	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 18:21	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 18:21	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 18:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	88	%	70-130	12.02.2020 18:21	
4-Bromofluorobenzene	460-00-4	126	%	70-130	12.02.2020 18:21	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **NSW-7 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-019 Date Collected: 11.20.2020 09:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3630**	25.3	mg/kg	11.30.2020 14:36		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 05:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 05:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 05:18	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 05:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	11.27.2020 05:18	
o-Terphenyl	84-15-1	107	%	70-130	11.27.2020 05:18	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-7 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-019	Date Collected:	11.20.2020 09:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 21:21	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 21:21	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 21:21	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 21:21	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 21:21	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 21:21	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 21:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	0	%	70-130	12.02.2020 21:21	**
4-Bromofluorobenzene	460-00-4	0	%	70-130	12.02.2020 21:21	**

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Crazy Wolf 1H

Sample Id: **SSW-7 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-020 Date Collected: 11.20.2020 09:35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1000**	4.98	mg/kg	11.30.2020 14:41		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143384 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 05:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 05:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 05:40	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 05:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	11.27.2020 05:40	
o-Terphenyl	84-15-1	113	%	70-130	11.27.2020 05:40	

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Crazy Wolf 1H

Sample Id:	**SSW-7 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-020	Date Collected:	11.20.2020 09:35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00202	mg/kg	12.04.2020 07:14	U	1
Toluene	108-88-3	ND	0.00202	mg/kg	12.04.2020 07:14	U	1
Ethylbenzene	100-41-4	ND	0.00202	mg/kg	12.04.2020 07:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00403	mg/kg	12.04.2020 07:14	U	1
o-Xylene	95-47-6	ND	0.00202	mg/kg	12.04.2020 07:14	U	1
Total Xylenes	1330-20-7	ND	0.002020	mg/kg	12.04.2020 07:14	U	1
Total BTEX		ND	0.002020	mg/kg	12.04.2020 07:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.04.2020 07:14	
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.04.2020 07:14	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **NSW-8@ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-021 Date Collected: 11.20.2020 09:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.8**	5.00	mg/kg	11.30.2020 14:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.26.2020 21:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.26.2020 21:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.26.2020 21:22	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.26.2020 21:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	11.26.2020 21:22	
o-Terphenyl	84-15-1	87	%	70-130	11.26.2020 21:22	

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Crazy Wolf 1H

Sample Id:	**NSW-8@ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-021	Date Collected:	11.20.2020 09:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 16:00	% Moisture:	
Seq Number:	3143824			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 19:23	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 19:23	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 19:23	U	1
m,p-Xylenes	179601-23-1	ND	0.00401	mg/kg	12.02.2020 19:23	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 19:23	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 19:23	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 19:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.02.2020 19:23	
4-Bromofluorobenzene	460-00-4	56	%	70-130	12.02.2020 19:23	**

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Crazy Wolf 1H

Sample Id: **SSW-8 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-022 Date Collected: 11.20.2020 09:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**208**	4.99	mg/kg	11.30.2020 14:51		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.26.2020 22:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.26.2020 22:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.26.2020 22:30	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.26.2020 22:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	11.26.2020 22:30	
o-Terphenyl	84-15-1	95	%	70-130	11.26.2020 22:30	

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Crazy Wolf 1H

Sample Id:	**SSW-8 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-022	Date Collected:	11.20.2020 09:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 16:00	% Moisture:	
Seq Number:	3143824			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.02.2020 19:43	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.02.2020 19:43	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.02.2020 19:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.02.2020 19:43	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.02.2020 19:43	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.02.2020 19:43	U	1
Total BTEX		ND	0.002010	mg/kg	12.02.2020 19:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.02.2020 19:43	
1,4-Difluorobenzene	540-36-3	86	%	70-130	12.02.2020 19:43	

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Crazy Wolf 1H

Sample Id: **ESW-8 @ 1.5'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-023 Date Collected: 11.20.2020 09:50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1510**	25.0	mg/kg	11.30.2020 14:57		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.26.2020 22:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.26.2020 22:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.26.2020 22:52	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.26.2020 22:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	11.26.2020 22:52	
o-Terphenyl	84-15-1	91	%	70-130	11.26.2020 22:52	

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Crazy Wolf 1H

Sample Id:	**ESW-8 @ 1.5'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-023	Date Collected:	11.20.2020 09:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 16:00	% Moisture:	
Seq Number:	3143824			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.02.2020 20:04	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.02.2020 20:04	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.02.2020 20:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.02.2020 20:04	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.02.2020 20:04	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.02.2020 20:04	U	1
Total BTEX		ND	0.002010	mg/kg	12.02.2020 20:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	55	%	70-130	12.02.2020 20:04	**
1,4-Difluorobenzene	540-36-3	122	%	70-130	12.02.2020 20:04	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-9 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-024 Date Collected: 11.20.2020 09:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3410**	25.0	mg/kg	11.30.2020 15:13		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.26.2020 23:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.26.2020 23:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.26.2020 23:15	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.26.2020 23:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	11.26.2020 23:15	
o-Terphenyl	84-15-1	99	%	70-130	11.26.2020 23:15	

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Crazy Wolf 1H

Sample Id:	**BH-9 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-024	Date Collected:	11.20.2020 09:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 15:00	% Moisture:	
Seq Number:	3143913			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	12.03.2020 19:19	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	12.03.2020 19:19	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	12.03.2020 19:19	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	12.03.2020 19:19	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	12.03.2020 19:19	U	1
Total Xylenes	1330-20-7	ND	0.001990	mg/kg	12.03.2020 19:19	U	1
Total BTEX		ND	0.001990	mg/kg	12.03.2020 19:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.03.2020 19:19	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.03.2020 19:19	

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Crazy Wolf 1H

Sample Id: **ESW-9 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-025 Date Collected: 11.20.2020 10:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.7**	5.03	mg/kg	11.30.2020 15:18		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.26.2020 23:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.26.2020 23:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.26.2020 23:38	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.26.2020 23:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	11.26.2020 23:38	
o-Terphenyl	84-15-1	106	%	70-130	11.26.2020 23:38	

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Crazy Wolf 1H

Sample Id:	**ESW-9 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-025	Date Collected:	11.20.2020 10:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 18:35	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 18:35	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 18:35	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 18:35	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 18:35	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 18:35	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.02.2020 18:35	
1,4-Difluorobenzene	540-36-3	87	%	70-130	12.02.2020 18:35	

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Crazy Wolf 1H

Sample Id: **WSW-9 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-026 Date Collected: 11.20.2020 10:10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39.1**	5.02	mg/kg	11.30.2020 15:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.27.2020 00:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.27.2020 00:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.27.2020 00:00	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.27.2020 00:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	11.27.2020 00:00	
o-Terphenyl	84-15-1	92	%	70-130	11.27.2020 00:00	

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Crazy Wolf 1H

Sample Id:	**WSW-9 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-026	Date Collected:	11.20.2020 10:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 18:55	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 18:55	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 18:55	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 18:55	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 18:55	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 18:55	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.02.2020 18:55	
4-Bromofluorobenzene	460-00-4	52	%	70-130	12.02.2020 18:55	**

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Crazy Wolf 1H

Sample Id: **BH-10 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-027 Date Collected: 11.20.2020 10:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5470**	49.8	mg/kg	11.30.2020 15:39		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 00:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 00:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 00:23	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 00:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	11.27.2020 00:23	
o-Terphenyl	84-15-1	93	%	70-130	11.27.2020 00:23	

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Crazy Wolf 1H

Sample Id:	**BH-10 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-027	Date Collected:	11.20.2020 10:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 19:16	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 19:16	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 19:16	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.02.2020 19:16	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 19:16	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 19:16	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	79	%	70-130	12.02.2020 19:16	
4-Bromofluorobenzene	460-00-4	112	%	70-130	12.02.2020 19:16	

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Crazy Wolf 1H

Sample Id: **WSW-10 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-028 Date Collected: 11.20.2020 10:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**140**	4.97	mg/kg	11.30.2020 15:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 00:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 00:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 00:46	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 00:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	11.27.2020 00:46	
o-Terphenyl	84-15-1	96	%	70-130	11.27.2020 00:46	

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Crazy Wolf 1H

Sample Id:	**WSW-10 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-028	Date Collected:	11.20.2020 10:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 15:00	% Moisture:	
Seq Number:	3143913			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	12.03.2020 19:39	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	12.03.2020 19:39	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	12.03.2020 19:39	U	1
m,p-Xylenes	179601-23-1	ND	0.00396	mg/kg	12.03.2020 19:39	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	12.03.2020 19:39	U	1
Total Xylenes	1330-20-7	ND	0.001980	mg/kg	12.03.2020 19:39	U	1
Total BTEX		ND	0.001980	mg/kg	12.03.2020 19:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.03.2020 19:39	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.03.2020 19:39	

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Crazy Wolf 1H

Sample Id: **ESW-10 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-029 Date Collected: 11.20.2020 10:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1010**	4.96	mg/kg	11.30.2020 15:49		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.27.2020 01:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.27.2020 01:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.27.2020 01:09	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.27.2020 01:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	11.27.2020 01:09	
o-Terphenyl	84-15-1	85	%	70-130	11.27.2020 01:09	

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Crazy Wolf 1H

Sample Id:	**ESW-10 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-029	Date Collected:	11.20.2020 10:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.02.2020 18:30	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.02.2020 18:30	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.02.2020 18:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.02.2020 18:30	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.02.2020 18:30	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.02.2020 18:30	U	1
Total BTEX		ND	0.002010	mg/kg	12.02.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.02.2020 18:30	
4-Bromofluorobenzene	460-00-4	126	%	70-130	12.02.2020 18:30	

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Crazy Wolf 1H

Sample Id:	**BH-11 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-030	Date Collected:	11.20.2020 10:30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	11.25.2020 09:56	% Moisture:	
Seq Number:	3143491			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12400**	101	mg/kg	11.30.2020 15:55		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	ARM				
Analyst:	ARM	Date Prep:	11.26.2020 11:00	% Moisture:	
Seq Number:	3143387			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	**86.7**	50.0	mg/kg	11.27.2020 01:31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 01:31	U	1
Total TPH	PHC635	**86.70**	50.00	mg/kg	11.27.2020 01:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	11.27.2020 01:31	
o-Terphenyl	84-15-1	87	%	70-130	11.27.2020 01:31	

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Crazy Wolf 1H

Sample Id:	**BH-11 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-030	Date Collected:	11.20.2020 10:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 15:00	% Moisture:	
Seq Number:	3143913			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.03.2020 20:00	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.03.2020 20:00	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.03.2020 20:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.03.2020 20:00	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.03.2020 20:00	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.03.2020 20:00	U	1
Total BTEX		ND	0.002000	mg/kg	12.03.2020 20:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.03.2020 20:00	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.03.2020 20:00	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-11 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-031	Date Collected:	11.20.2020 10:35		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	11.25.2020 09:56	% Moisture:	
Seq Number:	3143491			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1290**	5.04	mg/kg	11.30.2020 16:00		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	ARM				
Analyst:	ARM	Date Prep:	11.26.2020 11:00	% Moisture:	
Seq Number:	3143387			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 02:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**68.1**	49.9	mg/kg	11.27.2020 02:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 02:16	U	1
Total TPH	PHC635	**68.10**	49.90	mg/kg	11.27.2020 02:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	11.27.2020 02:16	
o-Terphenyl	84-15-1	93	%	70-130	11.27.2020 02:16	

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Crazy Wolf 1H

Sample Id:	**NSW-11 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-031	Date Collected:	11.20.2020 10:35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 15:00	% Moisture:	
Seq Number:	3143913			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	12.03.2020 20:20	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	12.03.2020 20:20	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	12.03.2020 20:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	12.03.2020 20:20	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	12.03.2020 20:20	U	1
Total Xylenes	1330-20-7	ND	0.001980	mg/kg	12.03.2020 20:20	U	1
Total BTEX		ND	0.001980	mg/kg	12.03.2020 20:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.03.2020 20:20	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.03.2020 20:20	

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Certificate of Analytical Results 678987

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESW-11 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-032 Date Collected: 11.20.2020 10:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:56 % Moisture:

Seq Number: 3143491 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3100**	25.2	mg/kg	11.30.2020 16:05		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 02:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 02:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 02:39	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 02:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	11.27.2020 02:39	
o-Terphenyl	84-15-1	90	%	70-130	11.27.2020 02:39	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-11 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-032	Date Collected:	11.20.2020 10:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0823**	0.00199	mg/kg	12.02.2020 19:49		1
Toluene	108-88-3	**0.00918**	0.00199	mg/kg	12.02.2020 19:49		1
Ethylbenzene	100-41-4	**0.00603**	0.00199	mg/kg	12.02.2020 19:49		1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	12.02.2020 19:49	U	1
o-Xylene	95-47-6	**0.00372**	0.00199	mg/kg	12.02.2020 19:49		1
Total Xylenes	1330-20-7	**0.003720**	0.001990	mg/kg	12.02.2020 19:49		1
Total BTEX		**0.1012**	0.001990	mg/kg	12.02.2020 19:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.02.2020 19:49	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.02.2020 19:49	

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Crazy Wolf 1H

Sample Id: **WSW-11 @ 3'** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-033 Date Collected: 11.20.2020 10:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:58 % Moisture:

Seq Number: 3143460 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2620**	24.9	mg/kg	11.25.2020 18:54		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 03:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 03:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 03:02	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 03:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	11.27.2020 03:02	
o-Terphenyl	84-15-1	89	%	70-130	11.27.2020 03:02	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSW-11 @ 3'**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-033	Date Collected:	11.20.2020 10:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00264**	0.00200	mg/kg	12.02.2020 15:54		1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 15:54	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 15:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 15:54	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 15:54	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 15:54	U	1
Total BTEX		**0.002640**	0.002000	mg/kg	12.02.2020 15:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.02.2020 15:54	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.02.2020 15:54	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-12 @ 6"** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-034 Date Collected: 11.20.2020 10:50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:58 % Moisture:

Seq Number: 3143460 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**104**	5.03	mg/kg	11.25.2020 19:16		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 03:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	11.27.2020 03:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	11.27.2020 03:24	U	1
Total TPH	PHC635	ND	49.90	mg/kg	11.27.2020 03:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	11.27.2020 03:24	
o-Terphenyl	84-15-1	89	%	70-130	11.27.2020 03:24	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-12 @ 6"**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-034	Date Collected:	11.20.2020 10:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	12.02.2020 21:36	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	12.02.2020 21:36	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	12.02.2020 21:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00396	mg/kg	12.02.2020 21:36	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	12.02.2020 21:36	U	1
Total Xylenes	1330-20-7	ND	0.001980	mg/kg	12.02.2020 21:36	U	1
Total BTEX		ND	0.001980	mg/kg	12.02.2020 21:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	87	%	70-130	12.02.2020 21:36	
4-Bromofluorobenzene	460-00-4	185	%	70-130	12.02.2020 21:36	**

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Crazy Wolf 1H

Sample Id: **NSW-12 @ 6"** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-035 Date Collected: 11.20.2020 10:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:58 % Moisture:

Seq Number: 3143460 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14800**	100	mg/kg	11.25.2020 19:24		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 03:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	**847**	50.0	mg/kg	11.27.2020 03:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**190**	50.0	mg/kg	11.27.2020 03:47		1
Total TPH	PHC635	**1037**	50.00	mg/kg	11.27.2020 03:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	11.27.2020 03:47	
o-Terphenyl	84-15-1	110	%	70-130	11.27.2020 03:47	

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Crazy Wolf 1H

Sample Id:	**NSW-12 @ 6"**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-035	Date Collected:	11.20.2020 10:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.02.2020 22:02	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 22:02	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 22:02	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 22:02	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 22:02	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 22:02	U	1
Total BTEX		ND	0.002000	mg/kg	12.02.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.02.2020 22:02	
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.02.2020 22:02	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **SSW-12 @ 6"** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-036 Date Collected: 11.20.2020 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:58 % Moisture:

Seq Number: 3143460 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3540**	24.8	mg/kg	11.25.2020 19:31		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	11.27.2020 04:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	11.27.2020 04:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	11.27.2020 04:10	U	1
Total TPH	PHC635	ND	49.80	mg/kg	11.27.2020 04:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	11.27.2020 04:10	
o-Terphenyl	84-15-1	88	%	70-130	11.27.2020 04:10	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**SSW-12 @ 6"**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-036	Date Collected:	11.20.2020 11:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.02.2020 22:29	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.02.2020 22:29	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.02.2020 22:29	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.02.2020 22:29	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.02.2020 22:29	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.02.2020 22:29	U	1
Total BTEX		ND	0.002010	mg/kg	12.02.2020 22:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	148	%	70-130	12.02.2020 22:29	**
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.02.2020 22:29	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-12 @ 6"**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-037	Date Collected:	11.20.2020 11:05		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	11.25.2020 09:58	% Moisture:	
Seq Number:	3143460			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17700**	99.4	mg/kg	11.25.2020 19:38		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	ARM				
Analyst:	ARM	Date Prep:	11.26.2020 11:00	% Moisture:	
Seq Number:	3143387			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	11.27.2020 04:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	**542**	49.9	mg/kg	11.27.2020 04:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**321**	49.9	mg/kg	11.27.2020 04:32		1
Total TPH	PHC635	**863.0**	49.90	mg/kg	11.27.2020 04:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	11.27.2020 04:32	
o-Terphenyl	84-15-1	89	%	70-130	11.27.2020 04:32	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-12 @ 6"**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-037	Date Collected:	11.20.2020 11:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00290**	0.00200	mg/kg	12.02.2020 22:55		1
Toluene	108-88-3	ND	0.00200	mg/kg	12.02.2020 22:55	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.02.2020 22:55	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.02.2020 22:55	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.02.2020 22:55	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.02.2020 22:55	U	1
Total BTEX		**0.002900**	0.002000	mg/kg	12.02.2020 22:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.02.2020 22:55	
4-Bromofluorobenzene	460-00-4	85	%	70-130	12.02.2020 22:55	

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Crazy Wolf 1H

Sample Id: **WSW-12 @ 6"** Matrix: Soil Date Received:11.24.2020 16:37

Lab Sample Id: 678987-038 Date Collected: 11.20.2020 11:10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.25.2020 09:58 % Moisture:

Seq Number: 3143460 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2080**	25.1	mg/kg	11.25.2020 20:00		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 11.26.2020 11:00 % Moisture:

Seq Number: 3143387 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	11.27.2020 04:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	11.27.2020 04:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	11.27.2020 04:55	U	1
Total TPH	PHC635	ND	50.00	mg/kg	11.27.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.27.2020 04:55	
o-Terphenyl	84-15-1	82	%	70-130	11.27.2020 04:55	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSW-12 @ 6"**	Matrix:	Soil	Date Received:	11.24.2020 16:37
Lab Sample Id:	678987-038	Date Collected:	11.20.2020 11:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143782			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00647**	0.00201	mg/kg	12.02.2020 23:21		1
Toluene	108-88-3	**0.00205**	0.00201	mg/kg	12.02.2020 23:21		1
Ethylbenzene	100-41-4	**0.00569**	0.00201	mg/kg	12.02.2020 23:21		1
m,p-Xylenes	179601-23-1	**0.00509**	0.00402	mg/kg	12.02.2020 23:21		1
o-Xylene	95-47-6	**0.00368**	0.00201	mg/kg	12.02.2020 23:21		1
Total Xylenes	1330-20-7	**0.008770**	0.002010	mg/kg	12.02.2020 23:21		1
Total BTEX		**0.02298**	0.002010	mg/kg	12.02.2020 23:21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	12	%	70-130	12.02.2020 23:21	**
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.02.2020 23:21	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 678987

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Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143491 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7716066-1-BLK — LCS Sample Id: 7716066-1-BKS — LCSD Sample Id: 7716066-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	259	104	90-110	0	20	mg/kg	11.30.2020 13:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143460 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7716067-1-BLK — LCS Sample Id: 7716067-1-BKS — LCSD Sample Id: 7716067-1-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	261	104	261	104	90-110	0	20	mg/kg	11.25.2020 18:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143456 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7715965-1-BLK — LCS Sample Id: 7715965-1-BKS — LCSD Sample Id: 7715965-1-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	261	104	263	105	90-110	1	20	mg/kg	11.25.2020 17:00	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143453 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7716065-1-BLK — LCS Sample Id: 7716065-1-BKS — LCSD Sample Id: 7716065-1-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	265	106	265	106	90-110	0	20	mg/kg	11.25.2020 14:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143491 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678987-013 — MS Sample Id: 678987-013 S — MSD Sample Id: 678987-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	124	250	379	102	379	102	90-110	0	20	mg/kg	11.30.2020 13:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143491 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678987-023 — MS Sample Id: 678987-023 S — MSD Sample Id: 678987-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1510	1250	2780	102	2770	101	90-110	0	20	mg/kg	11.30.2020 15:02	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143460 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678987-033 — MS Sample Id: 678987-033 S — MSD Sample Id: 678987-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2620	1240	3860	100	3860	100	90-110	0	20	mg/kg	11.25.2020 19:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143460 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 679023-005 — MS Sample Id: 679023-005 S — MSD Sample Id: 679023-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3560	1250	4770	97	4780	98	90-110	0	20	mg/kg	11.25.2020 20:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143456 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678984-021 — MS Sample Id: 678984-021 S — MSD Sample Id: 678984-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.9	250	269	103	270	103	90-110	0	20	mg/kg	11.25.2020 17:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143456 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678984-031 — MS Sample Id: 678984-031 S — MSD Sample Id: 678984-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.55	250	264	102	264	102	90-110	0	20	mg/kg	11.25.2020 18:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143453 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678987-002 — MS Sample Id: 678987-002 S — MSD Sample Id: 678987-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	113	252	367	101	367	101	90-110	0	20	mg/kg	11.25.2020 14:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143453 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 679041-001 — MS Sample Id: 679041-001 S — MSD Sample Id: 679041-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.03	252	254	101	254	101	90-110	0	20	mg/kg	11.25.2020 16:42	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143384 — Matrix: Solid — Date Prep: 11.26.2020
MB Sample Id: 7716027-1-BLK — LCS Sample Id: 7716027-1-BKS — LCSD Sample Id: 7716027-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	994	99	1160	116	70-130	15	20	mg/kg	11.26.2020 20:37	
Diesel Range Organics (DRO)	<50.0	1000	996	100	1150	115	70-130	14	20	mg/kg	11.26.2020 20:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		93		114		70-130	%	11.26.2020 20:37
o-Terphenyl	115		113		121		70-130	%	11.26.2020 20:37

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143387 — Matrix: Solid — Date Prep: 11.26.2020
MB Sample Id: 7716030-1-BLK — LCS Sample Id: 7716030-1-BKS — LCSD Sample Id: 7716030-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	976	98	1010	101	70-130	3	20	mg/kg	11.26.2020 20:37	
Diesel Range Organics (DRO)	<50.0	1000	970	97	1030	103	70-130	6	20	mg/kg	11.26.2020 20:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		105		107		70-130	%	11.26.2020 20:37
o-Terphenyl	95		102		111		70-130	%	11.26.2020 20:37

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143384 — Matrix: Solid — Date Prep: 11.26.2020
MB Sample Id: 7716027-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	11.26.2020 20:15	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143387 — Matrix: Solid — Date Prep: 11.26.2020
MB Sample Id: 7716030-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	11.26.2020 20:15	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143384 — Matrix: Soil — Date Prep: 11.26.2020
Parent Sample Id: 678987-001 — MS Sample Id: 678987-001 S — MSD Sample Id: 678987-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1210	121	1160	116	70-130	4	20	mg/kg	11.26.2020 21:45	
Diesel Range Organics (DRO)	<50.0	999	1230	123	1150	115	70-130	7	20	mg/kg	11.26.2020 21:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		112		70-130	%	11.26.2020 21:45
o-Terphenyl	123		108		70-130	%	11.26.2020 21:45

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143387 — Matrix: Soil — Date Prep: 11.26.2020
Parent Sample Id: 678987-021 — MS Sample Id: 678987-021 S — MSD Sample Id: 678987-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	913	91	862	86	70-130	6	20	mg/kg	11.26.2020 21:45	
Diesel Range Organics (DRO)	<50.0	999	983	98	937	94	70-130	5	20	mg/kg	11.26.2020 21:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		93		70-130	%	11.26.2020 21:45
o-Terphenyl	88		82		70-130	%	11.26.2020 21:45

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143528 — Matrix: Solid — Date Prep: 11.30.2020
MB Sample Id: 7716096-1-BLK — LCS Sample Id: 7716096-1-BKS — LCSD Sample Id: 7716096-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.002000	0.1000	0.09916	99	0.1288	129	70-130	26	35	mg/kg	11.30.2020 18:09	
Toluene	<0.002000	0.1000	0.1107	111	0.1413	141	70-130	24	35	mg/kg	11.30.2020 18:09	H
Ethylbenzene	<0.002000	0.1000	0.1051	105	0.1256	126	70-130	18	35	mg/kg	11.30.2020 18:09	
m,p-Xylenes	<0.004000	0.2000	0.2132	107	0.2588	129	70-130	19	35	mg/kg	11.30.2020 18:09	
o-Xylene	<0.002000	0.1000	0.1051	105	0.1254	125	70-130	18	35	mg/kg	11.30.2020 18:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		103		101		70-130	%	11.30.2020 18:09
4-Bromofluorobenzene	97		127		133	**	70-130	%	11.30.2020 18:09

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143699 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716253-1-BLK — LCS Sample Id: 7716253-1-BKS — LCSD Sample Id: 7716253-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.102	102	0.109	109	70-130	7	35	mg/kg	12.02.2020 11:11	
Toluene	<0.00200	0.100	0.0984	98	0.103	103	70-130	5	35	mg/kg	12.02.2020 11:11	
Ethylbenzene	<0.00200	0.100	0.100	100	0.107	107	70-130	7	35	mg/kg	12.02.2020 11:11	
m,p-Xylenes	<0.00400	0.200	0.191	96	0.203	102	70-130	6	35	mg/kg	12.02.2020 11:11	
o-Xylene	<0.00200	0.100	0.0942	94	0.101	101	70-130	7	35	mg/kg	12.02.2020 11:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	81		91		92		70-130	%	12.02.2020 11:11
4-Bromofluorobenzene	96		92		95		70-130	%	12.02.2020 11:11

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143782 — Matrix: Solid — Date Prep: 12.02.2020
MB Sample Id: 7716325-1-BLK — LCS Sample Id: 7716325-1-BKS — LCSD Sample Id: 7716325-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0907	91	0.0945	95	70-130	4	35	mg/kg	12.02.2020 12:46	
Toluene	<0.00200	0.100	0.104	104	0.107	107	70-130	3	35	mg/kg	12.02.2020 12:46	
Ethylbenzene	<0.00200	0.100	0.104	104	0.110	110	70-130	6	35	mg/kg	12.02.2020 12:46	
m,p-Xylenes	<0.00400	0.200	0.212	106	0.225	113	70-130	6	35	mg/kg	12.02.2020 12:46	
o-Xylene	<0.00200	0.100	0.108	108	0.113	113	70-130	5	35	mg/kg	12.02.2020 12:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	79		107		111		70-130	%	12.02.2020 12:46
4-Bromofluorobenzene	120		177	**	164	**	70-130	%	12.02.2020 12:46

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143802 — Matrix: Solid — Date Prep: 12.02.2020
MB Sample Id: 7716344-1-BLK — LCS Sample Id: 7716344-1-BKS — LCSD Sample Id: 7716344-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.109	109	70-130	6	35	mg/kg	12.02.2020 11:11	
Toluene	<0.00200	0.100	0.0993	99	0.104	104	70-130	5	35	mg/kg	12.02.2020 11:11	
Ethylbenzene	<0.00200	0.100	0.102	102	0.107	107	70-130	5	35	mg/kg	12.02.2020 11:11	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.203	102	70-130	6	35	mg/kg	12.02.2020 11:11	
o-Xylene	<0.00200	0.100	0.0949	95	0.101	101	70-130	6	35	mg/kg	12.02.2020 11:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		92		93		70-130	%	12.02.2020 11:11
4-Bromofluorobenzene	94		91		94		70-130	%	12.02.2020 11:11

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143824 — Matrix: Solid — Date Prep: 12.02.2020
MB Sample Id: 7716353-1-BLK — LCS Sample Id: 7716353-1-BKS — LCSD Sample Id: 7716353-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0997	100	0.0944	94	70-130	5	35	mg/kg	12.02.2020 16:00	
Toluene	<0.00200	0.100	0.113	113	0.0888	89	70-130	24	35	mg/kg	12.02.2020 16:00	
Ethylbenzene	<0.00200	0.100	0.107	107	0.0959	96	70-130	11	35	mg/kg	12.02.2020 16:00	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.189	95	70-130	12	35	mg/kg	12.02.2020 16:00	
o-Xylene	<0.00200	0.100	0.105	105	0.0936	94	70-130	11	35	mg/kg	12.02.2020 16:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		100		101		70-130	%	12.02.2020 16:00
4-Bromofluorobenzene	108		103		97		70-130	%	12.02.2020 16:00

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143913 — Matrix: Solid — Date Prep: 12.03.2020
MB Sample Id: 7716407-1-BLK — LCS Sample Id: 7716407-1-BKS — LCSD Sample Id: 7716407-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0777	78	0.0864	86	70-130	11	35	mg/kg	12.03.2020 22:44	
Toluene	<0.00200	0.100	0.0772	77	0.0865	87	70-130	11	35	mg/kg	12.03.2020 22:44	
Ethylbenzene	<0.00200	0.100	0.0859	86	0.0981	98	70-130	13	35	mg/kg	12.03.2020 22:44	
m,p-Xylenes	<0.00400	0.200	0.169	85	0.194	97	70-130	14	35	mg/kg	12.03.2020 22:44	
o-Xylene	<0.00200	0.100	0.0856	86	0.0954	95	70-130	11	35	mg/kg	12.03.2020 22:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		96		93		70-130	%	12.03.2020 22:44
4-Bromofluorobenzene	107		104		94		70-130	%	12.03.2020 22:44

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143914 — Matrix: Solid — Date Prep: 12.03.2020
MB Sample Id: 7716408-1-BLK — LCS Sample Id: 7716408-1-BKS — LCSD Sample Id: 7716408-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0924	92	0.0930	93	70-130	1	35	mg/kg	12.04.2020 03:30	
Toluene	<0.00200	0.100	0.0884	88	0.0883	88	70-130	0	35	mg/kg	12.04.2020 03:30	
Ethylbenzene	<0.00200	0.100	0.0977	98	0.0978	98	70-130	0	35	mg/kg	12.04.2020 03:30	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.192	96	70-130	0	35	mg/kg	12.04.2020 03:30	
o-Xylene	<0.00200	0.100	0.0959	96	0.0966	97	70-130	1	35	mg/kg	12.04.2020 03:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		99		70-130	%	12.04.2020 03:30
4-Bromofluorobenzene	105		103		100		70-130	%	12.04.2020 03:30

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 678987

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143707 Matrix: Solid Date Prep: 12.01.2020
MB Sample Id: 7716254-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Benzene	ND	mg/kg	12.02.2020 05:11	
Toluene	ND	mg/kg	12.02.2020 05:11	
Ethylbenzene	ND	mg/kg	12.02.2020 05:11	
m,p-Xylenes	ND	mg/kg	12.02.2020 05:11	
o-Xylene	ND	mg/kg	12.02.2020 05:11	

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143528 Matrix: Soil Date Prep: 11.30.2020
Parent Sample Id: 679026-001 MS Sample Id: 679026-001 S MSD Sample Id: 679026-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.002000	0.1000	0.01959	20	0.01514	15	70-130	26	35	mg/kg	11.30.2020 19:00	X
Toluene	<0.002000	0.1000	0.01320	13	0.01411	14	70-130	7	35	mg/kg	11.30.2020 19:00	X
Ethylbenzene	<0.002000	0.1000	0.01070	11	0.01043	10	70-130	3	35	mg/kg	11.30.2020 19:00	X
m,p-Xylenes	<0.004000	0.2000	0.02188	11	0.02443	12	70-130	11	35	mg/kg	11.30.2020 19:00	X
o-Xylene	<0.002000	0.1000	0.01319	13	0.01705	17	70-130	26	35	mg/kg	11.30.2020 19:00	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		104		70-130	%	11.30.2020 19:00
4-Bromofluorobenzene	69	**	128		70-130	%	11.30.2020 19:00

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143699 Matrix: Soil Date Prep: 12.01.2020
Parent Sample Id: 678984-021 MS Sample Id: 678984-021 S MSD Sample Id: 678984-021 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	0.0353	35	0.0918	92	70-130	89	35	mg/kg	12.01.2020 22:51	XF
Toluene	<0.00200	0.100	0.0278	28	0.0897	90	70-130	105	35	mg/kg	12.01.2020 22:51	XF
Ethylbenzene	<0.00200	0.100	0.0251	25	0.0888	89	70-130	112	35	mg/kg	12.01.2020 22:51	XF
m,p-Xylenes	<0.00400	0.200	0.0474	24	0.171	86	70-130	113	35	mg/kg	12.01.2020 22:51	XF
o-Xylene	<0.00200	0.100	0.0312	31	0.0866	87	70-130	94	35	mg/kg	12.01.2020 22:51	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		89		70-130	%	12.01.2020 22:51
4-Bromofluorobenzene	67	**	97		70-130	%	12.01.2020 22:51

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 678987

Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143707 — Matrix: Soil — Date Prep: 12.01.2020
Parent Sample Id: 678987-013 — MS Sample Id: 678987-013 S — MSD Sample Id: 678987-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0366	37	0.111	111	70-130	101	35	mg/kg	12.02.2020 03:52	XF
Toluene	<0.00200	0.0998	0.0383	38	0.102	102	70-130	91	35	mg/kg	12.02.2020 03:52	XF
Ethylbenzene	<0.00200	0.0998	0.0432	43	0.101	101	70-130	80	35	mg/kg	12.02.2020 03:52	XF
m,p-Xylenes	<0.00399	0.200	0.0764	38	0.204	102	70-130	91	35	mg/kg	12.02.2020 03:52	XF
o-Xylene	<0.00200	0.0998	0.0669	67	0.0972	97	70-130	37	35	mg/kg	12.02.2020 03:52	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	125		101		70-130	%	12.02.2020 03:52
4-Bromofluorobenzene	71		101		70-130	%	12.02.2020 03:52

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143782 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 678987-033 — MS Sample Id: 678987-033 S — MSD Sample Id: 678987-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00264	0.0996	0.111	109	0.119	117	70-130	7	35	mg/kg	12.02.2020 11:54	
Toluene	<0.00199	0.0996	0.124	124	0.127	127	70-130	2	35	mg/kg	12.02.2020 11:54	
Ethylbenzene	<0.00199	0.0996	0.108	108	0.113	113	70-130	5	35	mg/kg	12.02.2020 11:54	
m,p-Xylenes	<0.00398	0.199	0.221	111	0.232	116	70-130	5	35	mg/kg	12.02.2020 11:54	
o-Xylene	<0.00199	0.0996	0.108	108	0.114	114	70-130	5	35	mg/kg	12.02.2020 11:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		106		70-130	%	12.02.2020 11:54
4-Bromofluorobenzene	165	**	173	**	70-130	%	12.02.2020 11:54

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143802 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 678962-001 — MS Sample Id: 678962-001 S — MSD Sample Id: 678962-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.0851	85	70-130	22	35	mg/kg	12.02.2020 11:53	
Toluene	<0.00200	0.100	0.0837	84	0.0776	78	70-130	8	35	mg/kg	12.02.2020 11:53	
Ethylbenzene	<0.00200	0.100	0.0675	68	0.0616	62	70-130	9	35	mg/kg	12.02.2020 11:53	X
m,p-Xylenes	<0.00400	0.200	0.128	64	0.119	60	70-130	7	35	mg/kg	12.02.2020 11:53	X
o-Xylene	<0.00200	0.100	0.0652	65	0.0597	60	70-130	9	35	mg/kg	12.02.2020 11:53	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		85		70-130	%	12.02.2020 11:53
4-Bromofluorobenzene	96		101		70-130	%	12.02.2020 11:53

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 678987

Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143824 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 678987-018 — MS Sample Id: 678987-018 S — MSD Sample Id: 678987-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.127	127	0.129	129	70-130	2	35	mg/kg	12.02.2020 16:41	
Toluene	<0.00200	0.0998	0.116	116	0.118	118	70-130	2	35	mg/kg	12.02.2020 16:41	
Ethylbenzene	<0.00200	0.0998	0.116	116	0.118	118	70-130	2	35	mg/kg	12.02.2020 16:41	
m,p-Xylenes	<0.00399	0.200	0.234	117	0.240	120	70-130	3	35	mg/kg	12.02.2020 16:41	
o-Xylene	<0.00200	0.0998	0.110	110	0.113	113	70-130	3	35	mg/kg	12.02.2020 16:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		70-130	%	12.02.2020 16:41
4-Bromofluorobenzene	104		105		70-130	%	12.02.2020 16:41

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143913 — Matrix: Soil — Date Prep: 12.03.2020
Parent Sample Id: 679349-001 — MS Sample Id: 679349-001 S — MSD Sample Id: 679349-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0699	70	0.0673	68	70-130	4	35	mg/kg	12.03.2020 16:58	X
Toluene	<0.00200	0.0998	0.0665	67	0.0642	65	70-130	4	35	mg/kg	12.03.2020 16:58	X
Ethylbenzene	<0.00200	0.0998	0.0725	73	0.0698	71	70-130	4	35	mg/kg	12.03.2020 16:58	
m,p-Xylenes	<0.00399	0.200	0.142	71	0.137	69	70-130	4	35	mg/kg	12.03.2020 16:58	X
o-Xylene	<0.00200	0.0998	0.0705	71	0.0682	69	70-130	3	35	mg/kg	12.03.2020 16:58	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	12.03.2020 16:58
4-Bromofluorobenzene	108		106		70-130	%	12.03.2020 16:58

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143914 — Matrix: Soil — Date Prep: 12.03.2020
Parent Sample Id: 679278-001 — MS Sample Id: 679278-001 S — MSD Sample Id: 679278-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0825	82	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
Toluene	<0.00201	0.101	0.0788	78	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
Ethylbenzene	<0.00201	0.101	0.0876	87	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
m,p-Xylenes	<0.00402	0.201	0.170	85	<0.00401	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
o-Xylene	<0.00201	0.101	0.0861	85	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		0	**	70-130	%	12.04.2020 04:11
4-Bromofluorobenzene	105		0	**	70-130	%	12.04.2020 04:11

MS/MSD Percent Recovery — [D] = 100*(C-A) / B
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery — [D] = 100 * (C) / [B]
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample — MS = Matrix Spike
A = Parent Result — B = Spike Added
C = MS/LCS Result — D = MSD/LCSD % Rec
E = MSD/LCSD Result

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: 678987

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Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200 Email:	Matt@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	AFE# or paf# or LOE +CC#		

SAMPLE RECEIPT				
Temperature (°C):	5.0 5.5	Temp Blank: Yes (No)	Wet Ice: (Yes) No	
Received Intact:	(Yes) No	Thermometer ID	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
ESS-1 @ 1'	S	11/20/2020	800		1	X	X	X
ESS-2 @ 1'	S	11/20/2020	805		1	X	X	X
ESS-3 @ 1'	S	11/20/2020	810		1	X	X	X
WSS-1 @ 1'	S	11/20/2020	815		1	X	X	X
WSS-2 @ 1'	S	11/20/2020	820		1	X	X	X
WSS-3 @ 1'	S	11/20/2020	825		1	X	X	X
NSW-1 @ 1'	S	11/20/2020	830		1	X	X	X
NSW-2 @ 1.5'	S	11/20/2020	835		1	X	X	X
SSW-2 @ 1.5'	S	11/20/2020	840		1	X	X	X
NSW-4 @ 2'	S	11/20/2020	845		1	X	X	X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11-24-20	2		11/24/20 1631
3			4		
5			6		

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: 6789987

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Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200 Email:	Matt@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	AFE# or pal# or LOE+CC#		

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank: Yes No	Wet Ice: Yes No	Thermometer ID
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
SSW-4 @ 2'	S	11/20/2020	850		1	X	X	X
ESW-4 @ 2'	S	11/20/2020	855		1	X	X	X
NSW-5 @ 1'	S	11/20/2020	900		1	X	X	X
SSW-5 @ 1'	S	11/20/2020	905		1	X	X	X
ESW-5 @ 1'	S	11/20/2020	910		1	X	X	X
WSW-5 @ 1'	S	11/20/2020	915		1	X	X	X
SSW-6 @ 1.5'	S	11/20/2020	920		1	X	X	X
WSW-6 @ 1.5'	S	11/20/2020	925		1	X	X	X
NSW-7 @ 1.5'	S	11/20/2020	930		1	X	X	X
SSW-7 @ 1.5'	S	11/20/2020	935		1	X	X	X

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4-24-20	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

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

Work Order No: 478987

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	AFE# or pat# or LOS+CC#		

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300	Sample Comments
NSW-8 @ 1.5'	S	11/20/2020	940		1	X	X	X	
SSW-8 @ 1.5'	S	11/20/2020	945		1	X	X	X	
ESW-8 @ 1.5'	S	11/20/2020	950		1	X	X	X	
BH-9 @ 3'	S	11/20/2020	955		1	X	X	X	
ESW-9 @ 3'	S	11/20/2020	1000		1	X	X	X	
WSW-9 @ 3'	S	11/20/2020	1010		1	X	X	X	
BH-10 @ 3'	S	11/20/2020	1015		1	X	X	X	
WSW-10 @ 3'	S	11/20/2020	1020		1	X	X	X	
ESW-10 @ 3'	S	11/20/2020	1025		1	X	X	X	
BH-11 @ 3'	S	11/20/2020	1030		1	X	X	X	

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			11-24-20	2		
3				4		
5				6		

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

Work Order No: 6789987

Page 4 of 4

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200 Email:	Matt@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	AFE# or pat# or LOE+OC#		

SAMPLE RECEIPT				
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
NSW-11 @ 3'	S	11/20/2020	1035		1	X	X	X
ESW-11 @ 3'	S	11/20/2020	1040		1	X	X	X
WSW-11 @ 3'	S	11/20/2020	1045		1	X	X	X
BH-12 @ 6"	S	11/20/2020	1050		1	X	X	X
NSW-12 @ 6"	S	11/20/2020	1055		1	X	X	X
SSW-12 @ 6"	S	11/20/2020	1100		1	X	X	X
ESW-12 @ 6"	S	11/20/2020	1105		1	X	X	X
WSW-12 @ 6"	S	11/20/2020	1110		1	X	X	X

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			11-24-20	2		
3				4		
5				6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11.24.2020 04.37.26 PM

Work Order #: 678987

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

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.24.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11.25.2020

Jessica Kramer

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Certificate of Analysis Summary 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 12.02.2020 12:02
Report Date: 01.29.2021 11:25
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	679518-001		679518-002		679518-003		679518-004		679518-005		679518-006	
	Field Id:	BH-5 @ 1.5'		BH-6 @ 1'		BH-8 @ 1.5'		BH-13 @ 6"		NSW-13 @ 3"		SSW-13 @ 3"	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.24.2020 10:00		11.24.2020 10:01		11.24.2020 08:00		11.24.2020 07:05		11.24.2020 07:45		11.24.2020 07:30	
BTEX by EPA 8021B	***Extracted:***	12.03.2020 17:00		12.03.2020 17:00		12.03.2020 17:00		12.03.2020 17:00		12.04.2020 16:30		12.04.2020 16:30	
	Analyzed:	12.04.2020 07:34		12.04.2020 07:55		12.04.2020 08:15		12.04.2020 08:35		12.05.2020 06:04		12.05.2020 06:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
Toluene		ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
Ethylbenzene		ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
m,p-Xylenes		ND	0.00402	ND	0.00400	ND	0.00399	ND	0.00397	ND	0.00400	ND	0.00402
o-Xylene		ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00201
Total Xylenes		ND	0.002010	ND	0.002000	ND	0.002000	ND	0.001980	ND	0.002000	ND	0.002010
Total BTEX		ND	0.002010	ND	0.002000	ND	0.002000	ND	0.001980	ND	0.002000	ND	0.002010
Chloride by EPA 300	***Extracted:***	12.02.2020 17:25		12.02.2020 17:25		12.02.2020 17:25		12.02.2020 17:25		12.02.2020 17:25		12.02.2020 17:25	
	Analyzed:	12.03.2020 11:35		12.03.2020 11:40		12.03.2020 11:45		12.03.2020 11:50		12.03.2020 11:56		12.03.2020 12:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1380	4.95	462	5.03	97.5	5.00	148	5.00	81.1	5.00	262	5.04
TPH by SW8015 Mod	***Extracted:***	12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00	
	Analyzed:	12.04.2020 13:45		12.04.2020 14:50		12.04.2020 15:11		12.04.2020 15:33		12.04.2020 15:55		12.04.2020 16:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	50.0	ND	49.9	ND	49.8	ND	50.0	ND	50.0
Diesel Range Organics (DRO)		ND	50.0	ND	50.0	ND	49.9	ND	49.8	ND	50.0	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	50.0	ND	49.9	ND	49.8	ND	50.0	ND	50.0
Total TPH		ND	50.00	ND	50.00	ND	49.90	ND	49.80	ND	50.00	ND	50.00

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 12.02.2020 12:02
Report Date: 01.29.2021 11:25
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	679518-007		679518-008		679518-009		679518-010		679518-011		679518-012	
	Field Id:	ESW-13@ 3"		BH-14 @ 1'		NSW-14 @ 1'		ESW-14 @ 1'		WSW-14 @ 1'		BH-15 @ 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.24.2020 08:00		11.24.2020 13:45		11.24.2020 11:00		11.24.2020 10:55		11.24.2020 10:45		11.24.2020 09:45	
BTEX by EPA 8021B	***Extracted:***	12.04.2020 16:30		12.04.2020 16:30		12.04.2020 16:30		12.04.2020 16:30		12.04.2020 16:30		12.04.2020 16:30	
	Analyzed:	12.05.2020 06:45		12.05.2020 07:05		12.05.2020 07:25		12.05.2020 07:46		12.05.2020 08:06		12.05.2020 08:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00200	ND	0.00200	ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00199
Toluene		ND	0.00200	ND	0.00200	ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00199
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00199
m,p-Xylenes		ND	0.00399	ND	0.00399	ND	0.00402	ND	0.00401	ND	0.00401	ND	0.00398
o-Xylene		ND	0.00200	ND	0.00200	ND	0.00201	ND	0.00200	ND	0.00200	ND	0.00199
Total Xylenes		ND	0.002000	ND	0.002000	ND	0.002010	ND	0.002000	ND	0.002000	ND	0.001990
Total BTEX		ND	0.002000	ND	0.002000	ND	0.002010	ND	0.002000	ND	0.002000	ND	0.001990
Chloride by EPA 300	***Extracted:***	12.03.2020 13:15		12.03.2020 13:15		12.03.2020 13:15		12.03.2020 13:15		12.03.2020 13:15		12.03.2020 13:15	
	Analyzed:	12.03.2020 13:42		12.03.2020 13:58		12.03.2020 14:03		12.03.2020 14:09		12.03.2020 14:15		12.03.2020 14:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		171	5.02	658	4.96	1340	4.99	22.8	4.97	290	5.05	458	5.03
TPH by SW8015 Mod	***Extracted:***	12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00	
	Analyzed:	12.04.2020 16:38		12.04.2020 17:00		12.04.2020 17:22		12.04.2020 17:44		12.04.2020 18:27		12.04.2020 18:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	49.9	ND	49.9	ND	49.8	ND	50.0	ND	49.9
Diesel Range Organics (DRO)		ND	50.0	ND	49.9	ND	49.9	ND	49.8	ND	50.0	ND	49.9
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	49.9	ND	49.9	ND	49.8	ND	50.0	ND	49.9
Total TPH		ND	50.00	ND	49.90	ND	49.90	ND	49.80	ND	50.00	ND	49.90

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 12.02.2020 12:02
Report Date: 01.29.2021 11:25
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	679518-013		679518-014		679518-015					
	Field Id:	NSW-15		ESW-15 @ 1'		WSW-15 @ 1'					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	11.24.2020 10:25		11.24.2020 10:03		11.24.2020 10:15					
BTEX by EPA 8021B	***Extracted:***	12.04.2020 16:30		12.04.2020 16:30		12.04.2020 16:30					
	Analyzed:	12.05.2020 09:50		12.05.2020 10:10		12.05.2020 10:30					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.00200	ND	0.00199	ND	0.00201				
Toluene		ND	0.00200	ND	0.00199	ND	0.00201				
Ethylbenzene		ND	0.00200	ND	0.00199	ND	0.00201				
m,p-Xylenes		ND	0.00400	ND	0.00398	ND	0.00402				
o-Xylene		ND	0.00200	ND	0.00199	ND	0.00201				
Total Xylenes		ND	0.002000	ND	0.001990	ND	0.002010				
Total BTEX		ND	0.002000	ND	0.001990	ND	0.002010				
Chloride by EPA 300	***Extracted:***	12.03.2020 13:15		12.03.2020 13:15		12.03.2020 13:15					
	Analyzed:	12.03.2020 14:36		12.03.2020 14:41		12.03.2020 14:46					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		2290	24.9	423	4.99	822	4.95				
TPH by SW8015 Mod	***Extracted:***	12.04.2020 10:00		12.04.2020 10:00		12.04.2020 10:00					
	Analyzed:	12.04.2020 19:10		12.04.2020 19:31		12.04.2020 19:52					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	49.8	ND	50.0				
Diesel Range Organics (DRO)		149	49.9	ND	49.8	ND	50.0				
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	49.8	ND	50.0				
Total TPH		149.0	49.90	ND	49.80	ND	50.00				

BRL - Below Reporting Limit

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

Jessica Kramer

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Analytical Report 679518

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

12926

01.29.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

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01.29.2021

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **679518**
Crazy Wolf 1H
Project Address: Lea County, New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679518. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679518 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-5 @ 1.5'	S	11.24.2020 10:00		679518-001
BH-6 @ 1'	S	11.24.2020 10:01		679518-002
BH-8 @ 1.5'	S	11.24.2020 08:00		679518-003
BH-13 @ 6"	S	11.24.2020 07:05		679518-004
NSW-13 @ 3"	S	11.24.2020 07:45		679518-005
SSW-13 @ 3"	S	11.24.2020 07:30		679518-006
ESW-13@ 3"	S	11.24.2020 08:00		679518-007
BH-14 @ 1'	S	11.24.2020 13:45		679518-008
NSW-14 @ 1'	S	11.24.2020 11:00		679518-009
ESW-14 @ 1'	S	11.24.2020 10:55		679518-010
WSW-14 @ 1'	S	11.24.2020 10:45		679518-011
BH-15 @ 1'	S	11.24.2020 09:45		679518-012
NSW-15	S	11.24.2020 10:25		679518-013
ESW-15 @ 1'	S	11.24.2020 10:03		679518-014
WSW-15 @ 1'	S	11.24.2020 10:15		679518-015

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *679518*

Report Date: *01.29.2021*
Date Received: *12.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3143914 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene, Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 679278-001 SD.

Batch: LBA-3144067 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 679518-012.

Diesel Range Organics (DRO) Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.
Samples in the analytical batch are: 679518-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015

Lab Sample ID 679518-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO) recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 679518-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015.
The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-5 @ 1.5'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-001 Date Collected: 11.24.2020 10:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 17:25 % Moisture:

Seq Number: 3143843 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1380**	4.95	mg/kg	12.03.2020 11:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 13:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 13:45	UFX	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 13:45	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 13:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	12.04.2020 13:45	
o-Terphenyl	84-15-1	124	%	70-130	12.04.2020 13:45	

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Crazy Wolf 1H

Sample Id:	**BH-5 @ 1.5'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-001	Date Collected:	11.24.2020 10:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.04.2020 07:34	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.04.2020 07:34	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.04.2020 07:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.04.2020 07:34	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.04.2020 07:34	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.04.2020 07:34	U	1
Total BTEX		ND	0.002010	mg/kg	12.04.2020 07:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	12.04.2020 07:34	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.04.2020 07:34	

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Crazy Wolf 1H

Sample Id: **BH-6 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-002 Date Collected: 11.24.2020 10:01

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 17:25 % Moisture:

Seq Number: 3143843 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**462**	5.03	mg/kg	12.03.2020 11:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 14:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 14:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 14:50	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 14:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	12.04.2020 14:50	
o-Terphenyl	84-15-1	120	%	70-130	12.04.2020 14:50	

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Crazy Wolf 1H

Sample Id:	**BH-6 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-002	Date Collected:	11.24.2020 10:01		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.04.2020 07:55	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.04.2020 07:55	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.04.2020 07:55	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.04.2020 07:55	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.04.2020 07:55	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.04.2020 07:55	U	1
Total BTEX		ND	0.002000	mg/kg	12.04.2020 07:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.04.2020 07:55	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.04.2020 07:55	

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Crazy Wolf 1H

Sample Id: **BH-8 @ 1.5'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-003 Date Collected: 11.24.2020 08:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 17:25 % Moisture:

Seq Number: 3143843 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**97.5**	5.00	mg/kg	12.03.2020 11:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	12.04.2020 15:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	12.04.2020 15:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	12.04.2020 15:11	U	1
Total TPH	PHC635	ND	49.90	mg/kg	12.04.2020 15:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	12.04.2020 15:11	
o-Terphenyl	84-15-1	118	%	70-130	12.04.2020 15:11	

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Crazy Wolf 1H

Sample Id:	**BH-8 @ 1.5'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-003	Date Collected:	11.24.2020 08:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.04.2020 08:15	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.04.2020 08:15	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.04.2020 08:15	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.04.2020 08:15	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.04.2020 08:15	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.04.2020 08:15	U	1
Total BTEX		ND	0.002000	mg/kg	12.04.2020 08:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.04.2020 08:15	
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.04.2020 08:15	

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Crazy Wolf 1H

Sample Id: **BH-13 @ 6"** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-004 Date Collected: 11.24.2020 07:05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 17:25 % Moisture:

Seq Number: 3143843 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**148**	5.00	mg/kg	12.03.2020 11:50		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	12.04.2020 15:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	12.04.2020 15:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	12.04.2020 15:33	U	1
Total TPH	PHC635	ND	49.80	mg/kg	12.04.2020 15:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	12.04.2020 15:33	
o-Terphenyl	84-15-1	111	%	70-130	12.04.2020 15:33	

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Crazy Wolf 1H

Sample Id:	**BH-13 @ 6"**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-004	Date Collected:	11.24.2020 07:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	12.04.2020 08:35	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	12.04.2020 08:35	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	12.04.2020 08:35	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	12.04.2020 08:35	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	12.04.2020 08:35	U	1
Total Xylenes	1330-20-7	ND	0.001980	mg/kg	12.04.2020 08:35	U	1
Total BTEX		ND	0.001980	mg/kg	12.04.2020 08:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.04.2020 08:35	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.04.2020 08:35	

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Crazy Wolf 1H

Sample Id: **NSW-13 @ 3"** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-005 Date Collected: 11.24.2020 07:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 17:25 % Moisture:

Seq Number: 3143843 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**81.1**	5.00	mg/kg	12.03.2020 11:56		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 15:55	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 15:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	12.04.2020 15:55	
o-Terphenyl	84-15-1	112	%	70-130	12.04.2020 15:55	

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Crazy Wolf 1H

Sample Id:	**NSW-13 @ 3"**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-005	Date Collected:	11.24.2020 07:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.05.2020 06:04	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.05.2020 06:04	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.05.2020 06:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.05.2020 06:04	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.05.2020 06:04	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.05.2020 06:04	U	1
Total BTEX		ND	0.002000	mg/kg	12.05.2020 06:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.05.2020 06:04	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.05.2020 06:04	

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Crazy Wolf 1H

Sample Id: **SSW-13 @ 3"** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-006 Date Collected: 11.24.2020 07:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 17:25 % Moisture:

Seq Number: 3143843 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	5.04	mg/kg	12.03.2020 12:01		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 16:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 16:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 16:17	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 16:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	12.04.2020 16:17	
o-Terphenyl	84-15-1	123	%	70-130	12.04.2020 16:17	

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Crazy Wolf 1H

Sample Id:	**SSW-13 @ 3"**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-006	Date Collected:	11.24.2020 07:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.05.2020 06:24	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.05.2020 06:24	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.05.2020 06:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.05.2020 06:24	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.05.2020 06:24	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.05.2020 06:24	U	1
Total BTEX		ND	0.002010	mg/kg	12.05.2020 06:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	12.05.2020 06:24	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.05.2020 06:24	

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Crazy Wolf 1H

Sample Id: **ESW-13@ 3"** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-007 Date Collected: 11.24.2020 08:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**171**	5.02	mg/kg	12.03.2020 13:42		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 16:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 16:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 16:38	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 16:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	12.04.2020 16:38	
o-Terphenyl	84-15-1	112	%	70-130	12.04.2020 16:38	

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Crazy Wolf 1H

Sample Id:	**ESW-13@ 3"**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-007	Date Collected:	11.24.2020 08:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.05.2020 06:45	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.05.2020 06:45	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.05.2020 06:45	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.05.2020 06:45	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.05.2020 06:45	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.05.2020 06:45	U	1
Total BTEX		ND	0.002000	mg/kg	12.05.2020 06:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.05.2020 06:45	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.05.2020 06:45	

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Crazy Wolf 1H

Sample Id: **BH-14 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-008 Date Collected: 11.24.2020 13:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**658**	4.96	mg/kg	12.03.2020 13:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	12.04.2020 17:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	12.04.2020 17:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	12.04.2020 17:00	U	1
Total TPH	PHC635	ND	49.90	mg/kg	12.04.2020 17:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	12.04.2020 17:00	
o-Terphenyl	84-15-1	120	%	70-130	12.04.2020 17:00	

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Crazy Wolf 1H

Sample Id:	**BH-14 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-008	Date Collected:	11.24.2020 13:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.05.2020 07:05	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.05.2020 07:05	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.05.2020 07:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.05.2020 07:05	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.05.2020 07:05	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.05.2020 07:05	U	1
Total BTEX		ND	0.002000	mg/kg	12.05.2020 07:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.05.2020 07:05	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.05.2020 07:05	

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Certificate of Analytical Results 679518

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Crazy Wolf 1H

Sample Id: **NSW-14 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-009 Date Collected: 11.24.2020 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1340**	4.99	mg/kg	12.03.2020 14:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	12.04.2020 17:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	12.04.2020 17:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	12.04.2020 17:22	U	1
Total TPH	PHC635	ND	49.90	mg/kg	12.04.2020 17:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	12.04.2020 17:22	
o-Terphenyl	84-15-1	129	%	70-130	12.04.2020 17:22	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-14 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-009	Date Collected:	11.24.2020 11:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.05.2020 07:25	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.05.2020 07:25	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.05.2020 07:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.05.2020 07:25	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.05.2020 07:25	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.05.2020 07:25	U	1
Total BTEX		ND	0.002010	mg/kg	12.05.2020 07:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.05.2020 07:25	
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.05.2020 07:25	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESW-14 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-010 Date Collected: 11.24.2020 10:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.8**	4.97	mg/kg	12.03.2020 14:09		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	12.04.2020 17:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	12.04.2020 17:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	12.04.2020 17:44	U	1
Total TPH	PHC635	ND	49.80	mg/kg	12.04.2020 17:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	12.04.2020 17:44	
o-Terphenyl	84-15-1	123	%	70-130	12.04.2020 17:44	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-14 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-010	Date Collected:	11.24.2020 10:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.05.2020 07:46	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.05.2020 07:46	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.05.2020 07:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00401	mg/kg	12.05.2020 07:46	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.05.2020 07:46	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.05.2020 07:46	U	1
Total BTEX		ND	0.002000	mg/kg	12.05.2020 07:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.05.2020 07:46	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.05.2020 07:46	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **WSW-14 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-011 Date Collected: 11.24.2020 10:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**290**	5.05	mg/kg	12.03.2020 14:15		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 18:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 18:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 18:27	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 18:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	12.04.2020 18:27	
o-Terphenyl	84-15-1	114	%	70-130	12.04.2020 18:27	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSW-14 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-011	Date Collected:	11.24.2020 10:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.05.2020 08:06	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.05.2020 08:06	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.05.2020 08:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00401	mg/kg	12.05.2020 08:06	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.05.2020 08:06	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.05.2020 08:06	U	1
Total BTEX		ND	0.002000	mg/kg	12.05.2020 08:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	12.05.2020 08:06	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.05.2020 08:06	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **BH-15 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-012 Date Collected: 11.24.2020 09:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**458**	5.03	mg/kg	12.03.2020 14:30		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	12.04.2020 18:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	12.04.2020 18:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	12.04.2020 18:48	U	1
Total TPH	PHC635	ND	49.90	mg/kg	12.04.2020 18:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	131	%	70-130	12.04.2020 18:48	**
o-Terphenyl	84-15-1	129	%	70-130	12.04.2020 18:48	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**BH-15 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-012	Date Collected:	11.24.2020 09:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	12.05.2020 08:27	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	12.05.2020 08:27	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	12.05.2020 08:27	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	12.05.2020 08:27	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	12.05.2020 08:27	U	1
Total Xylenes	1330-20-7	ND	0.001990	mg/kg	12.05.2020 08:27	U	1
Total BTEX		ND	0.001990	mg/kg	12.05.2020 08:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.05.2020 08:27	
4-Bromofluorobenzene	460-00-4	108	%	70-130	12.05.2020 08:27	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **NSW-15** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-013 Date Collected: 11.24.2020 10:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2290**	24.9	mg/kg	12.03.2020 14:36		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	12.04.2020 19:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	**149**	49.9	mg/kg	12.04.2020 19:10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	12.04.2020 19:10	U	1
Total TPH	PHC635	**149.0**	49.90	mg/kg	12.04.2020 19:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	12.04.2020 19:10	
o-Terphenyl	84-15-1	129	%	70-130	12.04.2020 19:10	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-15**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-013	Date Collected:	11.24.2020 10:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.05.2020 09:50	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.05.2020 09:50	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.05.2020 09:50	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	12.05.2020 09:50	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.05.2020 09:50	U	1
Total Xylenes	1330-20-7	ND	0.002000	mg/kg	12.05.2020 09:50	U	1
Total BTEX		ND	0.002000	mg/kg	12.05.2020 09:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.05.2020 09:50	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.05.2020 09:50	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **ESW-15 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-014 Date Collected: 11.24.2020 10:03

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**423**	4.99	mg/kg	12.03.2020 14:41		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	12.04.2020 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	12.04.2020 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	12.04.2020 19:31	U	1
Total TPH	PHC635	ND	49.80	mg/kg	12.04.2020 19:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	12.04.2020 19:31	
o-Terphenyl	84-15-1	124	%	70-130	12.04.2020 19:31	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-15 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-014	Date Collected:	11.24.2020 10:03		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	12.05.2020 10:10	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	12.05.2020 10:10	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	12.05.2020 10:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	12.05.2020 10:10	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	12.05.2020 10:10	U	1
Total Xylenes	1330-20-7	ND	0.001990	mg/kg	12.05.2020 10:10	U	1
Total BTEX		ND	0.001990	mg/kg	12.05.2020 10:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.05.2020 10:10	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.05.2020 10:10	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **WSW-15 @ 1'** Matrix: Soil Date Received:12.02.2020 12:02

Lab Sample Id: 679518-015 Date Collected: 11.24.2020 10:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.03.2020 13:15 % Moisture:

Seq Number: 3143895 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**822**	4.95	mg/kg	12.03.2020 14:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.04.2020 10:00 % Moisture:

Seq Number: 3144067 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.04.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.04.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.04.2020 19:52	U	1
Total TPH	PHC635	ND	50.00	mg/kg	12.04.2020 19:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-130	12.04.2020 19:52	
o-Terphenyl	84-15-1	121	%	70-130	12.04.2020 19:52	

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Certificate of Analytical Results 679518

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSW-15 @ 1'**	Matrix:	Soil	Date Received:	12.02.2020 12:02
Lab Sample Id:	679518-015	Date Collected:	11.24.2020 10:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.04.2020 16:30	% Moisture:	
Seq Number:	3144020			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	12.05.2020 10:30	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	12.05.2020 10:30	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	12.05.2020 10:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	12.05.2020 10:30	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	12.05.2020 10:30	U	1
Total Xylenes	1330-20-7	ND	0.002010	mg/kg	12.05.2020 10:30	U	1
Total BTEX		ND	0.002010	mg/kg	12.05.2020 10:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.05.2020 10:30	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.05.2020 10:30	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 679518

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143843 — Matrix: Solid — Date Prep: 12.02.2020
MB Sample Id: 7716310-1-BLK — LCS Sample Id: 7716310-1-BKS — LCSD Sample Id: 7716310-1-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	263	105	264	106	90-110	0	20	mg/kg	12.03.2020 09:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143895 — Matrix: Solid — Date Prep: 12.03.2020
MB Sample Id: 7716347-1-BLK — LCS Sample Id: 7716347-1-BKS — LCSD Sample Id: 7716347-1-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	251	100	250	100	90-110	0	20	mg/kg	12.03.2020 13:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143843 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 679354-003 — MS Sample Id: 679354-003 S — MSD Sample Id: 679354-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	299	285	598	105	594	104	90-110	1	20	mg/kg	12.03.2020 10:58	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143843 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 679536-001 — MS Sample Id: 679536-001 S — MSD Sample Id: 679536-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	706	252	947	96	946	95	90-110	0	20	mg/kg	12.03.2020 09:44	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143895 — Matrix: Soil — Date Prep: 12.03.2020
Parent Sample Id: 679518-007 — MS Sample Id: 679518-007 S — MSD Sample Id: 679518-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	171	251	419	99	416	98	90-110	1	20	mg/kg	12.03.2020 13:47	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143895 — Matrix: Soil — Date Prep: 12.03.2020
Parent Sample Id: 679522-004 — MS Sample Id: 679522-004 S — MSD Sample Id: 679522-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.0	250	324	104	322	103	90-110	1	20	mg/kg	12.03.2020 15:02	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 679518

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3144067 — Matrix: Solid — Date Prep: 12.04.2020
MB Sample Id: 7716503-1-BLK — LCS Sample Id: 7716503-1-BKS — LCSD Sample Id: 7716503-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1170	117	1080	108	70-130	8	20	mg/kg	12.04.2020 13:02	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1080	108	70-130	6	20	mg/kg	12.04.2020 13:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		129		122		70-130	%	12.04.2020 13:02
o-Terphenyl	126		127		121		70-130	%	12.04.2020 13:02

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3144067 — Matrix: Solid — Date Prep: 12.04.2020
MB Sample Id: 7716503-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	12.04.2020 12:40	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3144067 — Matrix: Soil — Date Prep: 12.04.2020
Parent Sample Id: 679518-001 — MS Sample Id: 679518-001 S — MSD Sample Id: 679518-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1110	111	1110	111	70-130	0	20	mg/kg	12.04.2020 14:07	
Diesel Range Organics (DRO)	<49.9	997	1380	138	1100	110	70-130	23	20	mg/kg	12.04.2020 14:07	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		122		70-130	%	12.04.2020 14:07
o-Terphenyl	130		126		70-130	%	12.04.2020 14:07

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143914 — Matrix: Solid — Date Prep: 12.03.2020
MB Sample Id: 7716408-1-BLK — LCS Sample Id: 7716408-1-BKS — LCSD Sample Id: 7716408-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0924	92	0.0930	93	70-130	1	35	mg/kg	12.04.2020 03:30	
Toluene	<0.00200	0.100	0.0884	88	0.0883	88	70-130	0	35	mg/kg	12.04.2020 03:30	
Ethylbenzene	<0.00200	0.100	0.0977	98	0.0978	98	70-130	0	35	mg/kg	12.04.2020 03:30	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.192	96	70-130	0	35	mg/kg	12.04.2020 03:30	
o-Xylene	<0.00200	0.100	0.0959	96	0.0966	97	70-130	1	35	mg/kg	12.04.2020 03:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		99		70-130	%	12.04.2020 03:30
4-Bromofluorobenzene	105		103		100		70-130	%	12.04.2020 03:30

MS/MSD Percent Recovery [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 679518

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Crazy Wolf 1H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3144020 — Matrix: Solid — Date Prep: 12.04.2020
MB Sample Id: 7716475-1-BLK — LCS Sample Id: 7716475-1-BKS — LCSD Sample Id: 7716475-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0941	94	0.0940	94	70-130	0	35	mg/kg	12.05.2020 03:01	
Toluene	<0.00200	0.100	0.0870	87	0.0882	88	70-130	1	35	mg/kg	12.05.2020 03:01	
Ethylbenzene	<0.00200	0.100	0.0906	91	0.0958	96	70-130	6	35	mg/kg	12.05.2020 03:01	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.187	94	70-130	4	35	mg/kg	12.05.2020 03:01	
o-Xylene	<0.00200	0.100	0.0900	90	0.0915	92	70-130	2	35	mg/kg	12.05.2020 03:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		100		95		70-130	%	12.05.2020 03:01
4-Bromofluorobenzene	105		98		92		70-130	%	12.05.2020 03:01

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143914 — Matrix: Soil — Date Prep: 12.03.2020
Parent Sample Id: 679278-001 — MS Sample Id: 679278-001 S — MSD Sample Id: 679278-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0825	82	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
Toluene	<0.00201	0.101	0.0788	78	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
Ethylbenzene	<0.00201	0.101	0.0876	87	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
m,p-Xylenes	<0.00402	0.201	0.170	85	<0.00401	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
o-Xylene	<0.00201	0.101	0.0861	85	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		0	**	70-130	%	12.04.2020 04:11
4-Bromofluorobenzene	105		0	**	70-130	%	12.04.2020 04:11

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3144020 — Matrix: Soil — Date Prep: 12.04.2020
Parent Sample Id: 679461-001 — MS Sample Id: 679461-001 S — MSD Sample Id: 679461-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0854	86	0.0962	97	70-130	12	35	mg/kg	12.05.2020 03:42	
Toluene	<0.00199	0.0994	0.0791	80	0.0906	91	70-130	14	35	mg/kg	12.05.2020 03:42	
Ethylbenzene	<0.00199	0.0994	0.0845	85	0.0974	98	70-130	14	35	mg/kg	12.05.2020 03:42	
m,p-Xylenes	<0.00398	0.199	0.165	83	0.190	95	70-130	14	35	mg/kg	12.05.2020 03:42	
o-Xylene	<0.00199	0.0994	0.0815	82	0.0940	95	70-130	14	35	mg/kg	12.05.2020 03:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		70-130	%	12.05.2020 03:42
4-Bromofluorobenzene	104		103		70-130	%	12.05.2020 03:42

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Chain of Custody

Work Order No: 679518

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 Page _____ of _____

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Matt Green	Due Date:	
PO #:	AFE# or part# or LOE+CC#		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	6.1	Thermometer ID	
Received Intact:	(Yes) No	redJservices	128
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
BH-5 @ 1.5'	S	11/24/2020	1000		1	X	X	X
BH-6 @ 1'	S	11/24/2020	1001		1	X	X	X
BH-8 @ 1.5'	S	11/24/2020	800		1	X	X	X
BH-13 @ 6"	S	11/24/2020	705		1	X	X	X
NSW-13 @ 3"	S	11/24/2020	745		1	X	X	X
SSW-13 @ 3"	S	11/24/2020	730		1	X	X	X
ESW-13 @ 3"	S	11/24/2020	800		1	X	X	X
BH-14 @ 1'	S	11/24/2020	1345		1	X	X	X
NSW-14 @ 1'	S	11/24/2020	1100		1	X	X	X
ESW-14 @ 1'	S	11/24/2020	1055		1	X	X	X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Debra		12/3/20	2		
3		1202	4		
5			6		

Revised Date101419 Rev. 2019.1

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: 6795198

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Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Matt Green	Due Date:	
PO #:	AFE# or Stat# or LOE +CC#		

SAMPLE RECEIPT			
Temperature (°C):	6.1	Thermometer ID	IR8
Received Intact:	Yes No	redJservices	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.5
Sample Custody Seals:	Yes No N/A	Total Containers:	

Temp Blank: Yes (No) Wet Ice: (Yes) No

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
WSW-14 @ 1'	S	11/24/2020	1045		1	X	X	X
BH-15 @ 1'	S	11/24/2020	945		1	X	X	X
NSW-15 @ 1'	S	11/24/2020	1025		1	X	X	X
ESW-15 @ 1'	S	11/24/2020	1003		1	X	X	X
WSW-15 @ 1'	S	11/24/2020	1015		1	X	X	X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/2/20	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 12.02.2020 12.02.00 PM

Work Order #: 679518

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

Temperature Measuring device used : IR8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	6.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12.02.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12.03.2020
Jessica Kramer

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Certificate of Analysis Summary 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location:

Date Received in Lab: Fri 12.18.2020 16:11
Report Date: 12.23.2020 13:53
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	681854-001		681854-002		681854-003		681854-004		681854-005			
	Field Id:	Bottom Hole 11 @4'		Bottom Hole 16 @ 1.5'		NSW-16 @ 6"		ESW-12@ 6"		WSW-16 @ 6"			
	Depth:	4- ft		1.5- ft		6- In		6- In		6- In			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL			
	Sampled:	12.14.2020 12:45		12.14.2020 14:00		12.14.2020 14:15		12.14.2020 09:45		12.14.2020 14:00			
BTEX by EPA 8021B	***Extracted:***			12.21.2020 10:00		12.21.2020 10:00				12.22.2020 09:00			
	Analyzed:			12.21.2020 12:49		12.21.2020 14:58				12.22.2020 11:41			
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL		
Benzene				0.00497	0.00200	ND	0.00200			ND	0.00200		
Toluene				ND	0.00200	ND	0.00200			ND	0.00200		
Ethylbenzene				0.00306	0.00200	ND	0.00200			ND	0.00200		
m,p-Xylenes				0.00453	0.00399	ND	0.00401			ND	0.00399		
o-Xylene				0.00539	0.00200	ND	0.00200			ND	0.00200		
Total Xylenes				0.00992	0.00200	ND	0.00200			ND	0.00200		
Total BTEX				0.0180	0.00200	ND	0.00200			ND	0.00200		
Chloride by EPA 300	***Extracted:***	12.21.2020 17:40		12.21.2020 17:40		12.21.2020 17:40		12.21.2020 17:40		12.21.2020 17:40			
	Analyzed:	12.21.2020 17:57		12.21.2020 18:12		12.21.2020 18:18		12.21.2020 18:23		12.21.2020 18:28			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		204	5.04	1250	4.99	301	5.00	296	5.01	144	4.95		
TPH by SW8015 Mod	***Extracted:***			12.19.2020 10:00		12.19.2020 10:00				12.19.2020 10:00			
	Analyzed:			12.20.2020 01:22		12.20.2020 01:41				12.20.2020 01:59			
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)				ND	50.0	ND	50.0			ND	49.9		
Diesel Range Organics (DRO)				ND	50.0	ND	50.0			ND	49.9		
Motor Oil Range Hydrocarbons (MRO)				ND	50.0	ND	50.0			ND	49.9		
Total TPH				ND	50.0	ND	50.0			ND	49.9		

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 681854

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

12926

12.23.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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12.23.2020

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **681854**
Crazy Wolf 1H
Project Address:

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681854. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681854 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole 11 @4'	S	12.14.2020 12:45	4 ft	681854-001
Bottom Hole 16 @ 1.5'	S	12.14.2020 14:00	1.5 ft	681854-002
NSW-16 @ 6"	S	12.14.2020 14:15	6 In	681854-003
ESW-12@ 6"	S	12.14.2020 09:45	6 In	681854-004
WSW-16 @ 6"	S	12.14.2020 14:00	6 In	681854-005

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *681854*

Report Date: *12.23.2020*
Date Received: *12.18.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**Bottom Hole 11 @4'**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-001	Date Collected:	12.14.2020 12:45	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.21.2020 17:40	% Moisture:	
Seq Number:	3145645			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**204**	5.04	mg/kg	12.21.2020 17:57		1

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**Bottom Hole 16 @ 1.5'**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-002	Date Collected:	12.14.2020 14:00	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.21.2020 17:40	% Moisture:	
Seq Number:	3145645			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1250**	4.99	mg/kg	12.21.2020 18:12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.19.2020 10:00	% Moisture:	
Seq Number:	3145532			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.20.2020 01:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.20.2020 01:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.20.2020 01:22	U	1
Total TPH	PHC635	ND	50.0	mg/kg	12.20.2020 01:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	12.20.2020 01:22	
o-Terphenyl	84-15-1	85	%	70-130	12.20.2020 01:22	

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**Bottom Hole 16 @ 1.5'**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-002	Date Collected:	12.14.2020 14:00	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.21.2020 10:00	% Moisture:	
Seq Number:	3145620			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00497**	0.00200	mg/kg	12.21.2020 12:49		1
Toluene	108-88-3	ND	0.00200	mg/kg	12.21.2020 12:49	U	1
Ethylbenzene	100-41-4	**0.00306**	0.00200	mg/kg	12.21.2020 12:49		1
m,p-Xylenes	179601-23-1	**0.00453**	0.00399	mg/kg	12.21.2020 12:49		1
o-Xylene	95-47-6	**0.00539**	0.00200	mg/kg	12.21.2020 12:49		1
Total Xylenes	1330-20-7	**0.00992**	0.00200	mg/kg	12.21.2020 12:49		1
Total BTEX		**0.0180**	0.00200	mg/kg	12.21.2020 12:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.21.2020 12:49	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.21.2020 12:49	

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-16 @ 6"**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-003	Date Collected:	12.14.2020 14:15	Sample Depth:	6 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.21.2020 17:40	% Moisture:	
Seq Number:	3145645			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**301**	5.00	mg/kg	12.21.2020 18:18		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.19.2020 10:00	% Moisture:	
Seq Number:	3145532			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	12.20.2020 01:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	12.20.2020 01:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	12.20.2020 01:41	U	1
Total TPH	PHC635	ND	50.0	mg/kg	12.20.2020 01:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	12.20.2020 01:41	
o-Terphenyl	84-15-1	81	%	70-130	12.20.2020 01:41	

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-16 @ 6"**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-003	Date Collected:	12.14.2020 14:15	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.21.2020 10:00	% Moisture:	
Seq Number:	3145620			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.21.2020 14:58	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.21.2020 14:58	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.21.2020 14:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00401	mg/kg	12.21.2020 14:58	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.21.2020 14:58	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	12.21.2020 14:58	U	1
Total BTEX		ND	0.00200	mg/kg	12.21.2020 14:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	12.21.2020 14:58	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.21.2020 14:58	

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**ESW-12@ 6"**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-004	Date Collected:	12.14.2020 09:45	Sample Depth:	6 In
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.21.2020 17:40	% Moisture:	
Seq Number:	3145645			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**296**	5.01	mg/kg	12.21.2020 18:23		1

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSW-16 @ 6"**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-005	Date Collected:	12.14.2020 14:00	Sample Depth:	6 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.21.2020 17:40	% Moisture:	
Seq Number:	3145645			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**144**	4.95	mg/kg	12.21.2020 18:28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.19.2020 10:00	% Moisture:	
Seq Number:	3145532			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	12.20.2020 01:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	12.20.2020 01:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	12.20.2020 01:59	U	1
Total TPH	PHC635	ND	49.9	mg/kg	12.20.2020 01:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	12.20.2020 01:59	
o-Terphenyl	84-15-1	79	%	70-130	12.20.2020 01:59	

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Certificate of Analytical Results 681854

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**WSW-16 @ 6"**	Matrix:	Soil	Date Received:	12.18.2020 16:11
Lab Sample Id:	681854-005	Date Collected:	12.14.2020 14:00	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.22.2020 09:00	% Moisture:	
Seq Number:	3145808			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	12.22.2020 11:41	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	12.22.2020 11:41	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	12.22.2020 11:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	12.22.2020 11:41	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	12.22.2020 11:41	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	12.22.2020 11:41	U	1
Total BTEX		ND	0.00200	mg/kg	12.22.2020 11:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	70-130	12.22.2020 11:41	
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.22.2020 11:41	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 681854

Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145645 — Matrix: Solid — Date Prep: 12.21.2020
MB Sample Id: 7717612-1-BLK — LCS Sample Id: 7717612-1-BKS — LCSD Sample Id: 7717612-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	264	106	263	105	90-110	0	20	mg/kg	12.21.2020 17:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145645 — Matrix: Soil — Date Prep: 12.21.2020
Parent Sample Id: 681854-001 — MS Sample Id: 681854-001 S — MSD Sample Id: 681854-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	204	252	448	97	445	96	90-110	1	20	mg/kg	12.21.2020 18:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145645 — Matrix: Soil — Date Prep: 12.21.2020
Parent Sample Id: 681980-006 — MS Sample Id: 681980-006 S — MSD Sample Id: 681980-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	247	99	240	96	90-110	3	20	mg/kg	12.21.2020 19:15	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145532 — Matrix: Solid — Date Prep: 12.19.2020
MB Sample Id: 7717574-1-BLK — LCS Sample Id: 7717574-1-BKS — LCSD Sample Id: 7717574-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	856	86	867	87	70-130	1	20	mg/kg	12.19.2020 21:35	
Diesel Range Organics (DRO)	<50.0	1000	949	95	1000	100	70-130	5	20	mg/kg	12.19.2020 21:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	85		106		112		70-130	%	12.19.2020 21:35
o-Terphenyl	97		104		108		70-130	%	12.19.2020 21:35

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145532 — Matrix: Solid — Date Prep: 12.19.2020
MB Sample Id: 7717574-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	12.19.2020 21:16	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 681854

Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3145532 Matrix: Soil Date Prep: 12.19.2020
Parent Sample Id: 681801-021 MS Sample Id: 681801-021 S MSD Sample Id: 681801-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	799	80	847	85	70-130	6	20	mg/kg	12.19.2020 22:33	
Diesel Range Organics (DRO)	<49.9	997	942	94	917	92	70-130	3	20	mg/kg	12.19.2020 22:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		106		70-130	%	12.19.2020 22:33
o-Terphenyl	91		95		70-130	%	12.19.2020 22:33

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145620 Matrix: Solid Date Prep: 12.21.2020
MB Sample Id: 7717633-1-BLK LCS Sample Id: 7717633-1-BKS LCSD Sample Id: 7717633-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.103	103	70-130	6	35	mg/kg	12.21.2020 09:49	
Toluene	<0.00200	0.100	0.102	102	0.108	108	70-130	6	35	mg/kg	12.21.2020 09:49	
Ethylbenzene	<0.00200	0.100	0.109	109	0.108	108	70-130	1	35	mg/kg	12.21.2020 09:49	
m,p-Xylenes	<0.00400	0.200	0.223	112	0.220	110	70-130	1	35	mg/kg	12.21.2020 09:49	
o-Xylene	<0.00200	0.100	0.109	109	0.108	108	70-130	1	35	mg/kg	12.21.2020 09:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	86		100		99		70-130	%	12.21.2020 09:49
4-Bromofluorobenzene	72		108		102		70-130	%	12.21.2020 09:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145808 Matrix: Solid Date Prep: 12.22.2020
MB Sample Id: 7717740-1-BLK LCS Sample Id: 7717740-1-BKS LCSD Sample Id: 7717740-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.108	108	70-130	2	35	mg/kg	12.22.2020 08:39	
Toluene	<0.00200	0.100	0.107	107	0.111	111	70-130	4	35	mg/kg	12.22.2020 08:39	
Ethylbenzene	<0.00200	0.100	0.106	106	0.110	110	70-130	4	35	mg/kg	12.22.2020 08:39	
m,p-Xylenes	<0.00400	0.200	0.216	108	0.223	112	70-130	3	35	mg/kg	12.22.2020 08:39	
o-Xylene	<0.00200	0.100	0.107	107	0.111	111	70-130	4	35	mg/kg	12.22.2020 08:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		100		103		70-130	%	12.22.2020 08:39
4-Bromofluorobenzene	70		106		107		70-130	%	12.22.2020 08:39

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

QC Summary 681854

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145620 Matrix: Soil Date Prep: 12.21.2020
Parent Sample Id: 681854-002 MS Sample Id: 681854-002 S MSD Sample Id: 681854-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00497	0.0998	0.103	98	0.0969	92	70-130	6	35	mg/kg	12.21.2020 10:40	
Toluene	<0.00200	0.0998	0.107	107	0.0999	100	70-130	7	35	mg/kg	12.21.2020 10:40	
Ethylbenzene	0.00306	0.0998	0.105	102	0.0998	97	70-130	5	35	mg/kg	12.21.2020 10:40	
m,p-Xylenes	0.00453	0.200	0.214	105	0.204	100	70-130	5	35	mg/kg	12.21.2020 10:40	
o-Xylene	0.00539	0.0998	0.106	101	0.101	96	70-130	5	35	mg/kg	12.21.2020 10:40	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		101		70-130	%	12.21.2020 10:40
4-Bromofluorobenzene	108		101		70-130	%	12.21.2020 10:40

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145808 Matrix: Soil Date Prep: 12.22.2020
Parent Sample Id: 681854-005 MS Sample Id: 681854-005 S MSD Sample Id: 681854-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0916	93	0.0876	88	70-130	4	35	mg/kg	12.22.2020 09:32	
Toluene	<0.00198	0.0990	0.104	105	0.0899	90	70-130	15	35	mg/kg	12.22.2020 09:32	
Ethylbenzene	<0.00198	0.0990	0.103	104	0.0894	90	70-130	14	35	mg/kg	12.22.2020 09:32	
m,p-Xylenes	<0.00396	0.198	0.209	106	0.183	92	70-130	13	35	mg/kg	12.22.2020 09:32	
o-Xylene	<0.00198	0.0990	0.102	103	0.0909	91	70-130	12	35	mg/kg	12.22.2020 09:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		101		70-130	%	12.22.2020 09:32
4-Bromofluorobenzene	104		105		70-130	%	12.22.2020 09:32

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 681854

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 Page 1 of 1

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200 Email:	Matt@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/US ☐ TRR ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Matt Green	Due Date:	
PO #:	AFE# or pa# or LOE-CC#		

SAMPLE RECEIPT				
Temperature (°C):	12.4	Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID	redJservices	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
Bottom Hole 11 @ 4'	S	12/14/2020	1245		1			X
Bottom Hole 16 @ 1.5'	S	12/14/2020	1400		1	X	X	X
NSW-16 @ 6"	S	12/14/2020	1415		1	X	X	X
ESW-12 @ 6"	S	12/14/2020	945		1			X
WSW-16 @ 6"	S	12/14/2020	1400		1	X	X	X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day **5 day** Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/15/16:05			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 12.18.2020 04.11.27 PM

Work Order #: 681854

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

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	12.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12.21.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12.21.2020
Jessica Kramer

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Certificate of Analysis Summary 683109

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id:

Contact: Matthew Green

Project Location:

Date Received in Lab: Thu 12.31.2020 11:25

Report Date: 01.04.2021 16:59

Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	683109-001					
	Field Id:	NSW-12 @ 6"					
	Depth:						
	Matrix:	SOIL					
	Sampled:	12.23.2020 10:25					
Chloride by EPA 300	***Extracted:***	12.31.2020 11:56					
	Analyzed:	12.31.2020 15:58					
	Units/RL:	mg/kg	RL				
Chloride		488	4.99				

BRL - Below Reporting Limit

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

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 683109

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

01.04.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.04.2021

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **683109**
Crazy Wolf 1H
Project Address:

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683109. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683109 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 683109

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NSW-12 @ 6"	S	12.23.2020 10:25		683109-001

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID:
Work Order Number(s): *683109*

Report Date: *01.04.2021*
Date Received: *12.31.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 683109

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**NSW-12 @ 6"**	Matrix:	Soil	Date Received:	12.31.2020 11:25
Lab Sample Id:	683109-001	Date Collected:	12.23.2020 10:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.31.2020 11:56	% Moisture:	
Seq Number:	3146528			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**488**	4.99	mg/kg	12.31.2020 15:58		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 683109

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3146528 Matrix: Solid Date Prep: 12.31.2020
MB Sample Id: 7718210-1-BLK LCS Sample Id: 7718210-1-BKS LCSD Sample Id: 7718210-1-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	249	100	251	100	90-110	1	20	mg/kg	12.31.2020 13:27	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3146528 Matrix: Soil Date Prep: 12.31.2020
Parent Sample Id: 683093-001 MS Sample Id: 683093-001 S MSD Sample Id: 683093-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.49	249	293	115	290	114	90-110	1	20	mg/kg	12.31.2020 13:42	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3146528 Matrix: Soil Date Prep: 12.31.2020
Parent Sample Id: 683093-011 MS Sample Id: 683093-011 S MSD Sample Id: 683093-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	58.3	250	329	108	330	109	90-110	0	20	mg/kg	12.31.2020 14:55	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

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

Work Order No: 683109

Page 1 of 1

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	AFE# or Quote# or LOE +CC#		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	(Yes) No
Temperature (°C):	1.8	Thermometer ID		
Received Intact:	(Yes) No	redJservices 188		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	.5	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
NSW-12 @ 6"	S	12/23/2020	1025		1			X

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day **5 day** Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/31 11:25	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

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Certificate of Analysis Summary 684229

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Crazy Wolf 1H

Project Id: 12926
Contact: Matthew Green
Project Location: Lea County, New Mexico

Date Received in Lab: Mon 01.11.2021 14:57
Report Date: 01.13.2021 15:52
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	684229-001		684229-002					
	Field Id:	Stockpile A		Stockpile B					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	01.07.2021 14:05		01.07.2021 14:15					
BTEX by EPA 8021B	***Extracted:***	01.12.2021 13:00		01.12.2021 13:00					
	Analyzed:	01.13.2021 06:59		01.13.2021 07:25					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.00200	ND	0.00200				
Toluene		ND	0.00200	ND	0.00200				
Ethylbenzene		ND	0.00200	ND	0.00200				
m,p-Xylenes		ND	0.00400	ND	0.00400				
o-Xylene		ND	0.00200	ND	0.00200				
Total Xylenes		ND	0.00200	ND	0.00200				
Total BTEX		ND	0.00200	ND	0.00200				
Chloride by EPA 300	***Extracted:***	01.12.2021 14:55		01.12.2021 14:55					
	Analyzed:	01.12.2021 16:34		01.12.2021 16:39					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		2240	24.8	3360	24.9				
TPH by SW8015 Mod	***Extracted:***	01.12.2021 17:00		01.12.2021 17:00					
	Analyzed:	01.12.2021 21:41		01.12.2021 22:00					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	49.9				
Diesel Range Organics (DRO)		74.2	50.0	82.3	49.9				
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	49.9				
Total TPH		74.2	50.0	82.3	49.9				

BRL - Below Reporting Limit

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

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 684229

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Crazy Wolf 1H

12926

01.13.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

eurofins | Environment Testing Xenco

01.13.2021

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **684229**
Crazy Wolf 1H
Project Address: Lea County, New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684229. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684229 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684229

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile A	S	01.07.2021 14:05		684229-001
Stockpile B	S	01.07.2021 14:15		684229-002

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Crazy Wolf 1H

Project ID: *12926*
Work Order Number(s): *684229*

Report Date: *01.13.2021*
Date Received: *01.11.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3147617 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits Samples affected are: 7719041-1-BLK,7719041-1-BSD,684229-002,684229-001.

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Certificate of Analytical Results 684229

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **Stockpile A** Matrix: Soil Date Received:01.11.2021 14:57

Lab Sample Id: 684229-001 Date Collected: 01.07.2021 14:05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 14:55 % Moisture:

Seq Number: 3147628 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2240**	24.8	mg/kg	01.12.2021 16:34		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.12.2021 17:00 % Moisture:

Seq Number: 3147669 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	01.12.2021 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	**74.2**	50.0	mg/kg	01.12.2021 21:41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	01.12.2021 21:41	U	1
Total TPH	PHC635	**74.2**	50.0	mg/kg	01.12.2021 21:41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	01.12.2021 21:41	
o-Terphenyl	84-15-1	74	%	70-130	01.12.2021 21:41	

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Certificate of Analytical Results 684229

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**Stockpile A**	Matrix:	Soil	Date Received:	01.11.2021 14:57
Lab Sample Id:	684229-001	Date Collected:	01.07.2021 14:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.12.2021 13:00	% Moisture:	
Seq Number:	3147617			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	01.13.2021 06:59	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	01.13.2021 06:59	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	01.13.2021 06:59	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	01.13.2021 06:59	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	01.13.2021 06:59	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	01.13.2021 06:59	U	1
Total BTEX		ND	0.00200	mg/kg	01.13.2021 06:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	01.13.2021 06:59	
4-Bromofluorobenzene	460-00-4	138	%	70-130	01.13.2021 06:59	**

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Certificate of Analytical Results 684229

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id: **Stockpile B** Matrix: Soil Date Received:01.11.2021 14:57

Lab Sample Id: 684229-002 Date Collected: 01.07.2021 14:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 14:55 % Moisture:

Seq Number: 3147628 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3360**	24.9	mg/kg	01.12.2021 16:39		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.12.2021 17:00 % Moisture:

Seq Number: 3147669 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	01.12.2021 22:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**82.3**	49.9	mg/kg	01.12.2021 22:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	01.12.2021 22:00	U	1
Total TPH	PHC635	**82.3**	49.9	mg/kg	01.12.2021 22:00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	01.12.2021 22:00	
o-Terphenyl	84-15-1	79	%	70-130	01.12.2021 22:00	

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Certificate of Analytical Results 684229

Etech Environmental & Safety Solution, Inc, Midland, TX

Crazy Wolf 1H

Sample Id:	**Stockpile B**	Matrix:	Soil	Date Received:	01.11.2021 14:57
Lab Sample Id:	684229-002	Date Collected:	01.07.2021 14:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.12.2021 13:00	% Moisture:	
Seq Number:	3147617			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	01.13.2021 07:25	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	01.13.2021 07:25	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	01.13.2021 07:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	mg/kg	01.13.2021 07:25	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	01.13.2021 07:25	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	01.13.2021 07:25	U	1
Total BTEX		ND	0.00200	mg/kg	01.13.2021 07:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	139	%	70-130	01.13.2021 07:25	**
1,4-Difluorobenzene	540-36-3	87	%	70-130	01.13.2021 07:25	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684229

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Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147628 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719000-1-BLK — LCS Sample Id: 7719000-1-BKS — LCSD Sample Id: 7719000-1-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	247	99	247	99	90-110	0	20	mg/kg	01.12.2021 15:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147628 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684229-002 — MS Sample Id: 684229-002 S — MSD Sample Id: 684229-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3360	1250	4600	99	4720	109	90-110	3	20	mg/kg	01.12.2021 16:44	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147628 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684279-013 — MS Sample Id: 684279-013 S — MSD Sample Id: 684279-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	36.8	253	293	101	294	102	90-110	0	20	mg/kg	01.12.2021 15:32	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147669 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719050-1-BLK — LCS Sample Id: 7719050-1-BKS — LCSD Sample Id: 7719050-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	938	94	853	85	70-130	9	20	mg/kg	01.12.2021 17:01	
Diesel Range Organics (DRO)	<50.0	1000	960	96	950	95	70-130	1	20	mg/kg	01.12.2021 17:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		114		104		70-130	%	01.12.2021 17:01
o-Terphenyl	89		99		88		70-130	%	01.12.2021 17:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147669 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719050-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	01.12.2021 16:43	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 684229

Etech Environmental & Safety Solution, Inc

Crazy Wolf 1H

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147669 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684218-001 MS Sample Id: 684218-001 S MSD Sample Id: 684218-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	828	83	828	83	70-130	0	20	mg/kg	01.12.2021 17:57	
Diesel Range Organics (DRO)	<49.9	997	837	84	805	81	70-130	4	20	mg/kg	01.12.2021 17:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		91		70-130	%	01.12.2021 17:57
o-Terphenyl	82		82		70-130	%	01.12.2021 17:57

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147617 Matrix: Solid Date Prep: 01.12.2021
MB Sample Id: 7719041-1-BLK LCS Sample Id: 7719041-1-BKS LCSD Sample Id: 7719041-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0775	78	0.0784	78	70-130	1	35	mg/kg	01.13.2021 02:12	
Toluene	<0.00200	0.100	0.0861	86	0.0874	87	70-130	1	35	mg/kg	01.13.2021 02:12	
Ethylbenzene	<0.00200	0.100	0.0875	88	0.0888	89	70-130	1	35	mg/kg	01.13.2021 02:12	
m,p-Xylenes	<0.00400	0.200	0.174	87	0.177	89	70-130	2	35	mg/kg	01.13.2021 02:12	
o-Xylene	<0.00200	0.100	0.0922	92	0.0954	95	70-130	3	35	mg/kg	01.13.2021 02:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	81		97		105		70-130	%	01.13.2021 02:12
4-Bromofluorobenzene	151	**	124		134	**	70-130	%	01.13.2021 02:12

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147617 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684218-001 MS Sample Id: 684218-001 S MSD Sample Id: 684218-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0340	34	0.0385	39	70-130	12	35	mg/kg	01.13.2021 03:05	X
Toluene	<0.00201	0.101	0.0423	42	0.0447	45	70-130	6	35	mg/kg	01.13.2021 03:05	X
Ethylbenzene	<0.00201	0.101	0.0429	42	0.0433	43	70-130	1	35	mg/kg	01.13.2021 03:05	X
m,p-Xylenes	<0.00402	0.201	0.0884	44	0.0879	44	70-130	1	35	mg/kg	01.13.2021 03:05	X
o-Xylene	<0.00201	0.101	0.0501	50	0.0498	50	70-130	1	35	mg/kg	01.13.2021 03:05	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		85		70-130	%	01.13.2021 03:05
4-Bromofluorobenzene	119		125		70-130	%	01.13.2021 03:05

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

XENCO LABORATORIES

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: 684229

www.xenco.com Page 1 of 1

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Crazy Wolf 1H	Turn Around	
Project Number:	12926	CONTRACT ☐	
Project Location	Lea County, New Mexico	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	AFE# or cat# or LOE #CO#		

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Temperature (°C):	2.0 / 3.1	Thermometer ID	
Received Intact:	(Yes) No	redJservices	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	2.0
Sample Custody Seals:	Yes No (N/A)	Total Containers:	3.1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300	Sample Comments
Stockpile A	S	1/7/2021	1405		1	X	X	X	
Stockpile B	S	1/7/2021	1415		1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	1/11 1487	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01.11.2021 02.57.00 PM

Work Order #: 684229

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

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01.11.2021

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

APPENDIX C

Release Notification and Corrective Action Form (Form C-141)

Closure Request and Remediation Summary Report
Crazy Wolf Fed COM 1H

eTECH Environmental & Safety Solutions, Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	38325
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident # *(assigned by OCD)*
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.68320 Longitude -103.72417
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Crazy Wolf Fed Com 1H	Site Type: Production Facility
Date Release Discovered: 8-16-20	API# *30025431350000*

Unit Letter	Section	Township	Range	County
M	1	19S	32E	Lea

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The threads on the transfer pump swedge had corroded and released the produced water. The free-standing fluids were recovered and properly disposed of. The square footage, porosity, and saturation was used in determining the amount of liquids released. The site will be delineated and remediated to the state standards and a final C141 closure report will be submitted.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume released was greater than 25bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification was given to Jim Griswold and emnrd-ocd-district1spills.	

Initial Response

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

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

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

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

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: Jamon Hohensee Date: 8-31-20

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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Application ID	

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

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Oil Conservation Division

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Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 21563

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CENTENNIAL RESOURCE PRODUCTION	1001 17th Street, Suite 1800	Denver, CO80202	372165	21563	C-141

OCD Reviewer	Condition
chensley	None