

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?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Dakota Neel Title: HSE Coordinator
Signature:  Date: 4/10/2020
email: dneel2@concho.com Telephone: 575-746-2010

OCD Only

Received by: _____ Date: _____

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Closure

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

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

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

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

Printed Name: Dakota Neel Title: HSE Coordinator
 Signature:  Date: 4/10/2020
 email: dneel2@concho.com Telephone: 575-746-2010

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

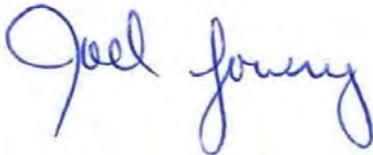
Remediation Summary and Soil Closure Request

COG Operating, LLC Craig State #3

Eddy County, New Mexico
Unit Letter C, Section 36, Township 25 South, Range 26 East
Latitude 32.092387 North, Longitude 104.249677 West
NMOCD Reference No. Pending

Prepared By:

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



Joel Lowry



Daniel Dominguez



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Craig State #3. Details of the release are summarized below:

Location of Release Source			
Latitude: <u>32.092387</u>		Longitude: <u>-104.249677</u>	
Provided GPS are in WGS84 format.			
Site Name: <u>Craig State #3</u>		Site Type: <u>Tank Battery</u>	
Date Release Discovered: <u>Pending</u>		API # (if applicable): <u>30-015-41971</u>	
Unit Letter	Section	Township	Range
C	36	25S	26E
County: <u>Eddy</u>			
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)			
Nature and Volume of Release			
<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>20</u>	Volume Recovered (bbls) <u>0</u>	
	Is the concentration of dissolved chlorides in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered	
Cause of Release: The release was caused by a improper valve positioning. The release was in the pasture.			
Initial Response			
<input checked="" type="checkbox"/> The source of the release has been stopped.			
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.			
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices			
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.			

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50 Ft.</u>		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
~25	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On February 20, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On February 24 and 25, 2020, Etech collected forty (40) excavation confirmation soil samples. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

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

The final dimensions of the excavated area were approximately 150 ft. in length, 40 ft. to 75 ft. in width and ranged from 3 ft to 5.5 ft. in depth. During the course of remediation activities approximately 1,300 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

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

6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Craig State #3 Site.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of COG Operating, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or COG Operating, LLC.

8.0 DISTRIBUTION

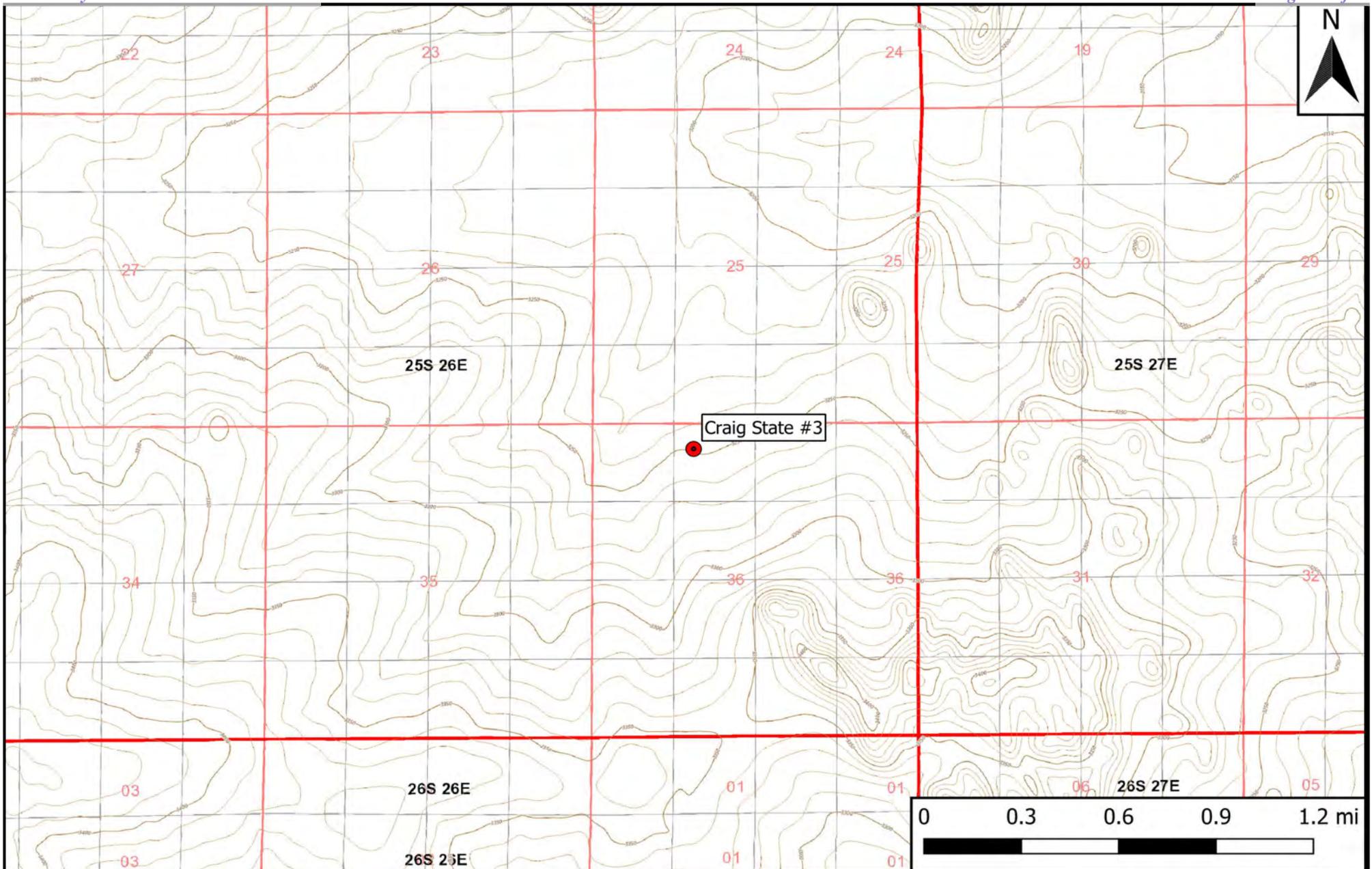
COG Operating, LLC
600 West Illinois Avenue
Midland, TX 79701

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

United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Topographic Map



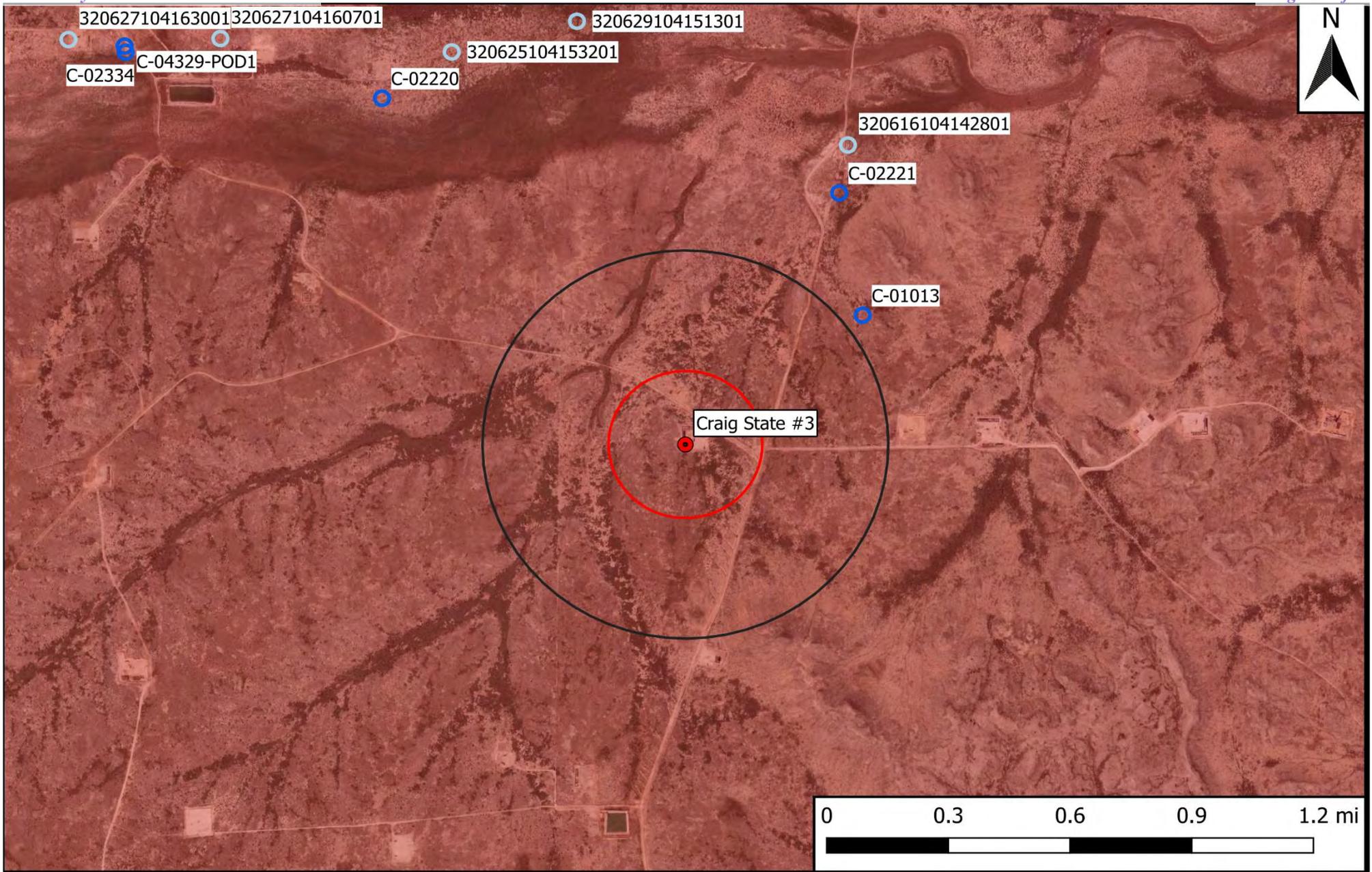
Legend
 Site Location

Figure 1
 Topographic Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County



Figure 2

Aerial Proximity Map



Legend	
	Site Location
	0.5 Mi Radius
	1000 Ft Radius
	1% Annual Flood Chance
	Surface Water
	Well - USGS
	Well - NMOSE
	High Karst
	Medium Karst
	Potash Mine Workings

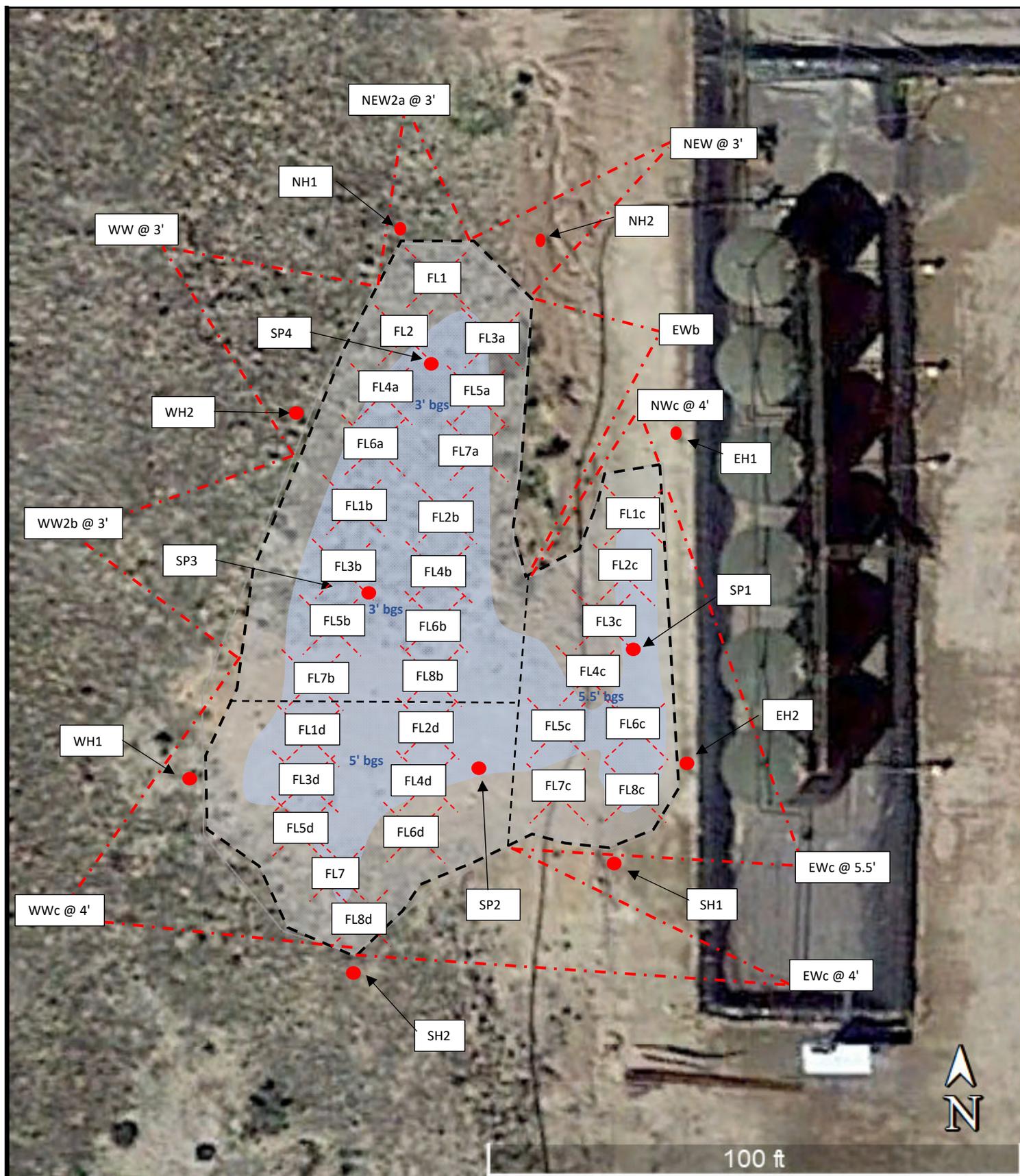
Figure 2
 Aerial Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County

eTECH 
Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 1/13/20

Figure 3

Site and Sample Location Map



Legend:

-  Affected Area
-  Sample Point
-  Composite Sample
-  Excavated Area

Figure 3
 Site and Sample Location Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County


 Environmental & Safety Solutions, Inc.

Drafted: dd
 Checked: jwl Date: 3/30/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Craig State #3
NMOCD Ref. #: Pending

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
NH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
NH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
NH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
EH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
EH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
EH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
SH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
SH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
WH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
WH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP 1 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	21,200
SP 1 @ 4'	1/10/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP 2 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	26.6	26.6	<10.0	26.6	22,800
SP 2 @ 4'	1/10/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 3 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
SP 3 @ 1'	1/9/20	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
SP 4 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,600
SP 4 @ 2'	1/9/20	2'	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	928
FL 1 @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64
FL 2 @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NEW @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 1b @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 2b @ 3'	2/24/20	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW b @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 1C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
NW C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 1d @ 2'	2/24/20	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 3 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
FL 4 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 5 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 6 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
FL 7 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32
FL 3 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- =

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Craig State #3
NMOCD Ref. #: Pending

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 CI
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 4 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 5 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 6 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 7 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 8 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 2 C @ 4.5'	2/25/20	4.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 3 C @ 4.5'	2/25/20	4.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 4 C @ 4.5'	2/25/20	4.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 5 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 6 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 7 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 8 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 2 D @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 3 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 4 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 5 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 6 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 7 @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 8 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NEW 2A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW 2b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
Closure Criteria				10	50	-	-	N/A	-	100	600

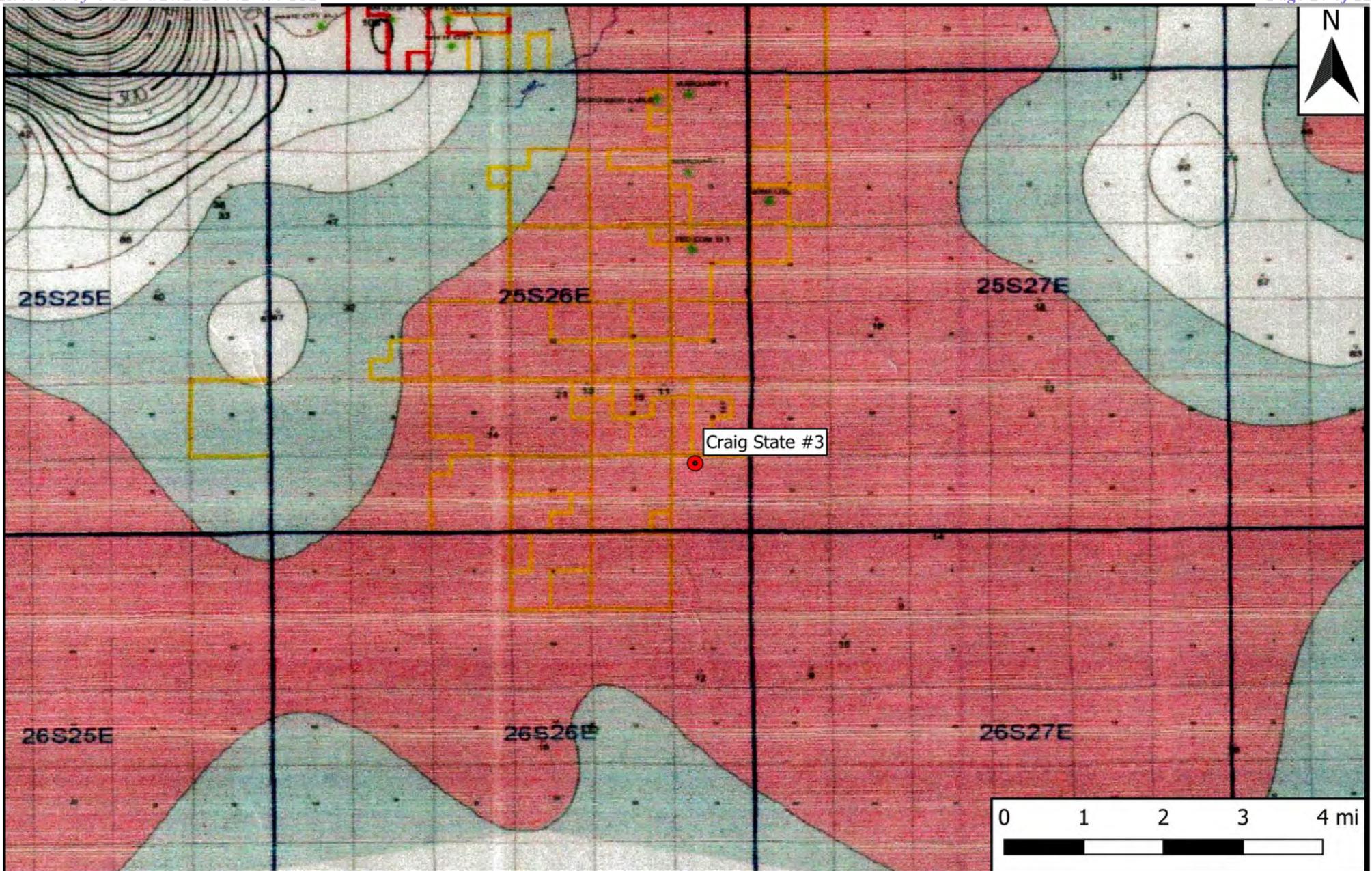
NOTES:

- =

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_01013	C	ED		4	25	25S	26E			571505	3551456*	882	245		
C_02221	CUB	ED		4	3	2	25	25S	26E	571412	3551961*	1204	35		

Average Depth to Water: --
 Minimum Depth: --
 Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 570801.75 **Northing (Y):** 3550922.48 **Radius:** 1610

*UTM location was derived from PLSS - see Help

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

1/13/20 8:29 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02221	4	3	2	25	25S	26E	571412	3551961*

Driller License:		Driller Company:		
Driller Name: J D FOREHAND				
Drill Start Date:	Drill Finish Date:	11/15/1914	Plug Date:	
Log File Date:	PCW Rcv Date:		Source:	
Pump Type:	Pipe Discharge Size:		Estimated Yield: 7 GPM	
Casing Size: 6.50	Depth Well:	35 feet	Depth Water:	

*UTM location was derived from PLSS - see Help

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

1/13/20 8:29 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01013	4	25	25S	26E	571505	3551456*		

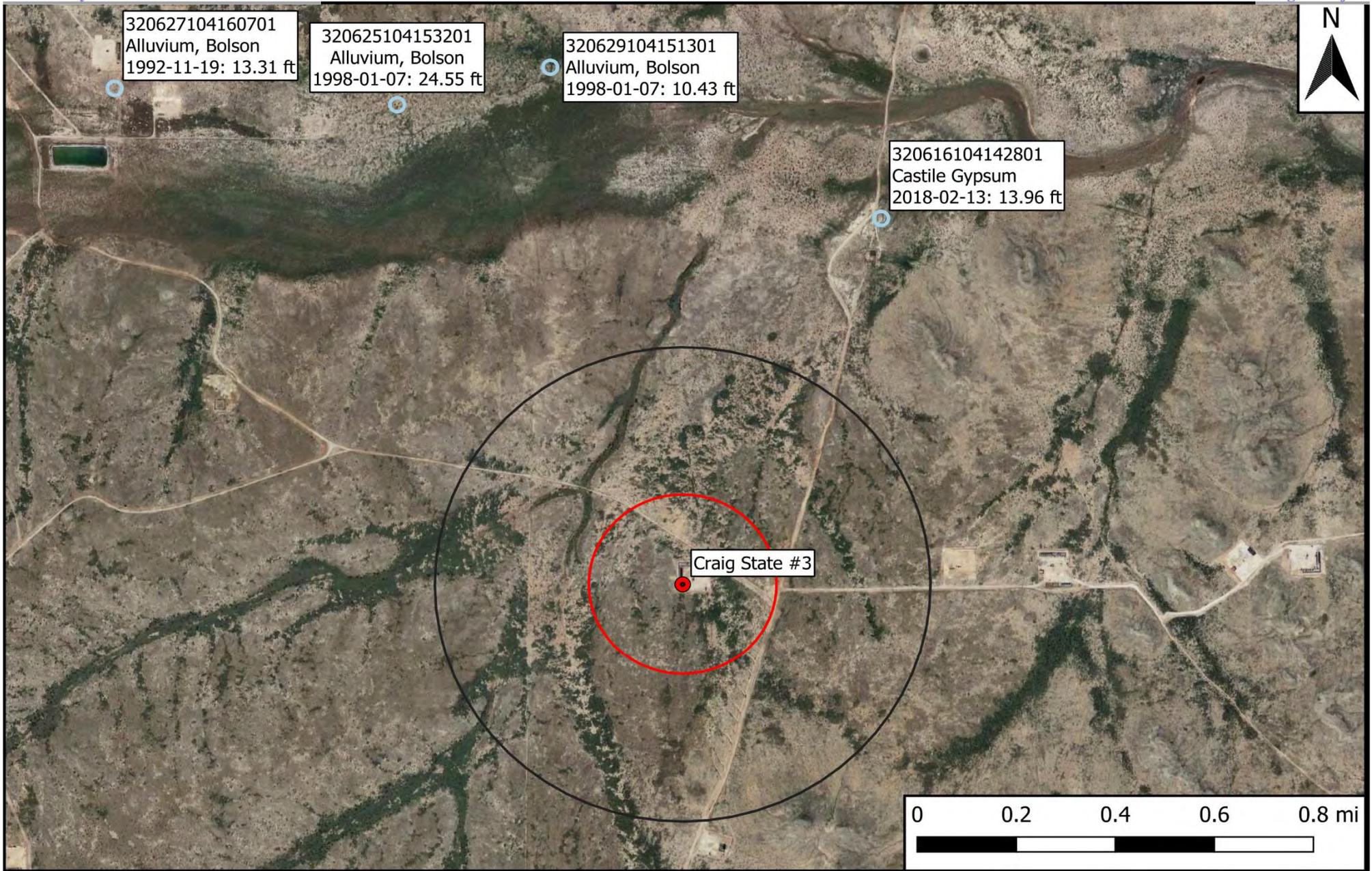
Driller License: 24	Driller Company: BRININSTOOL, M.D.		
Driller Name: HOWARD HEMLER			
Drill Start Date: 06/10/1961	Drill Finish Date: 06/17/1961	Plug Date:	
Log File Date: 07/12/1961	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size: 7.00	Depth Well: 245 feet	Depth Water:	

Water Bearing Stratifications:	Top	Bottom	Description
	153	165	Shale/Mudstone/Siltstone
	180	198	Limestone/Dolomite/Chalk
	228	238	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	203	245

*UTM location was derived from PLSS - see Help

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



Legend

- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5
 USGS Well Proximity Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County



Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 1/13/20



National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320616104142801

Minimum number of levels = 1

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

USGS 320616104142801 25S.26E.25.23231

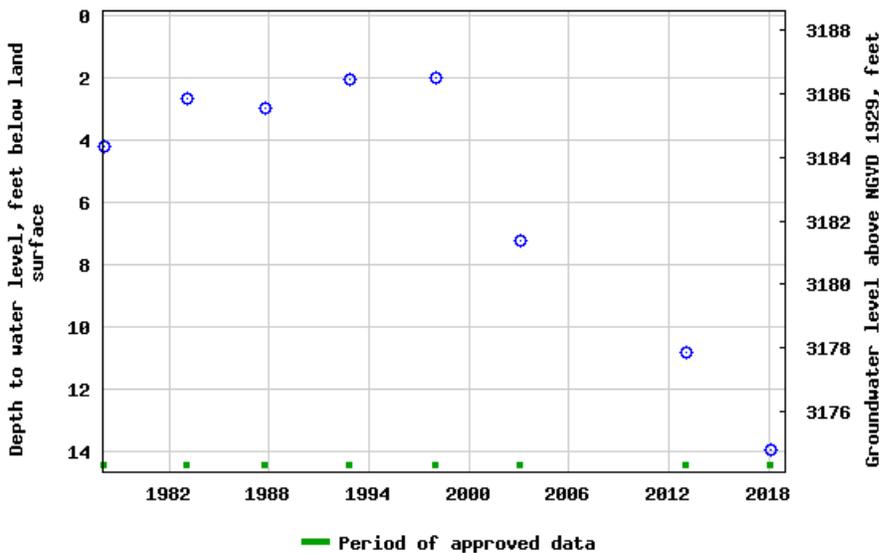
Available data for this site

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°06'12.6", Longitude 104°14'33.9" NAD83
 Land-surface elevation 3,188.60 feet above NGVD29
 This well is completed in the Castile Gypsum (312CSTL) local aquifer.

Output formats

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

USGS 320616104142801 25S.26E.25.23231



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



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0.54 0.46 nadww02



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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320625104153201

Minimum number of levels = 1

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USGS 320625104153201 25S.26E.26.213213

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

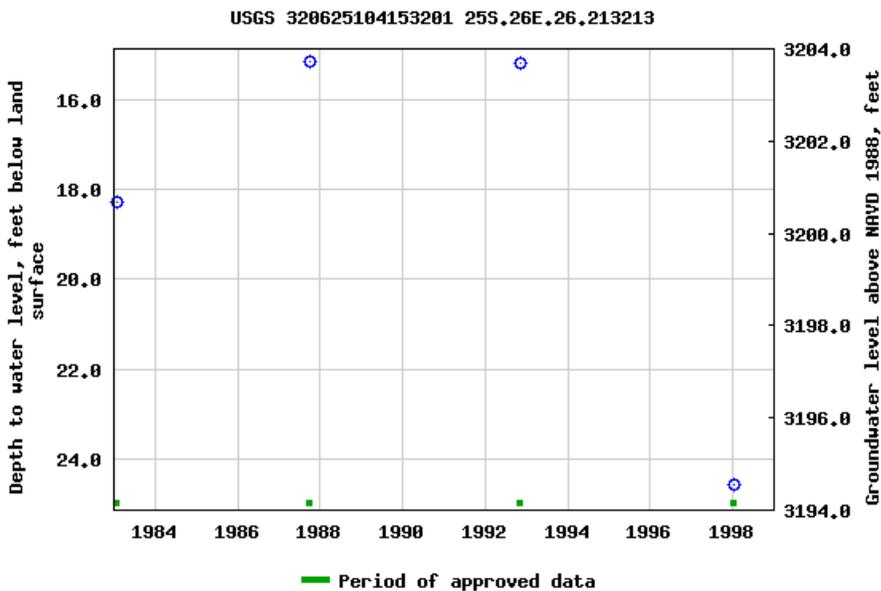
Latitude 32°06'25", Longitude 104°15'32" NAD27

Land-surface elevation 3,219 feet above NAVD88

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

Output formats

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



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0.53 0.47 nadww02



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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 320627104160701

Minimum number of levels = 1

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

USGS 320627104160701 25S.26E.27.22200

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

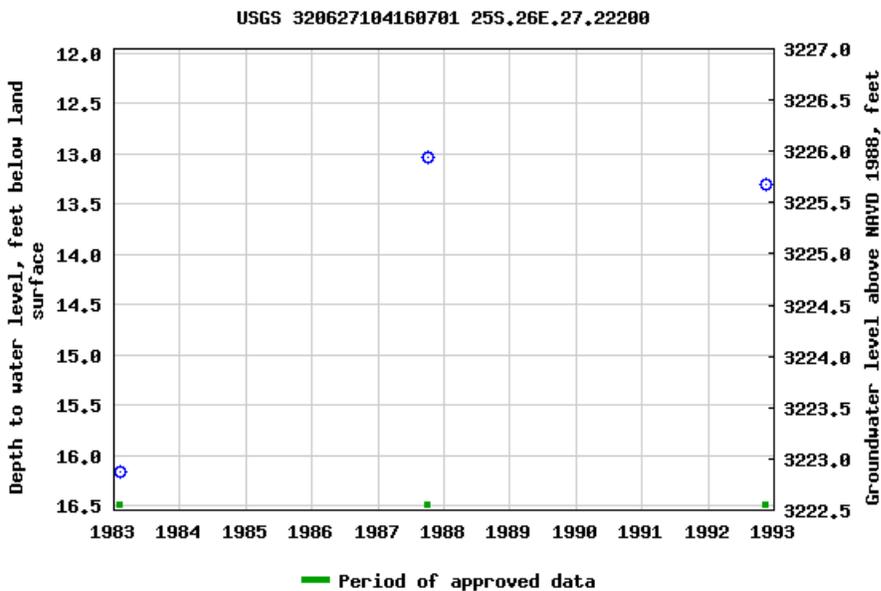
Latitude 32°06'27", Longitude 104°16'07" NAD27

Land-surface elevation 3,239 feet above NAVD88

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

Output formats

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



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0.51 0.46 nadww02



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Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 320629104151301

Minimum number of levels = 1

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

USGS 320629104151301 25S.26E.26.22231

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°06'29", Longitude 104°15'13" NAD27

Land-surface elevation 3,212 feet above NAVD88

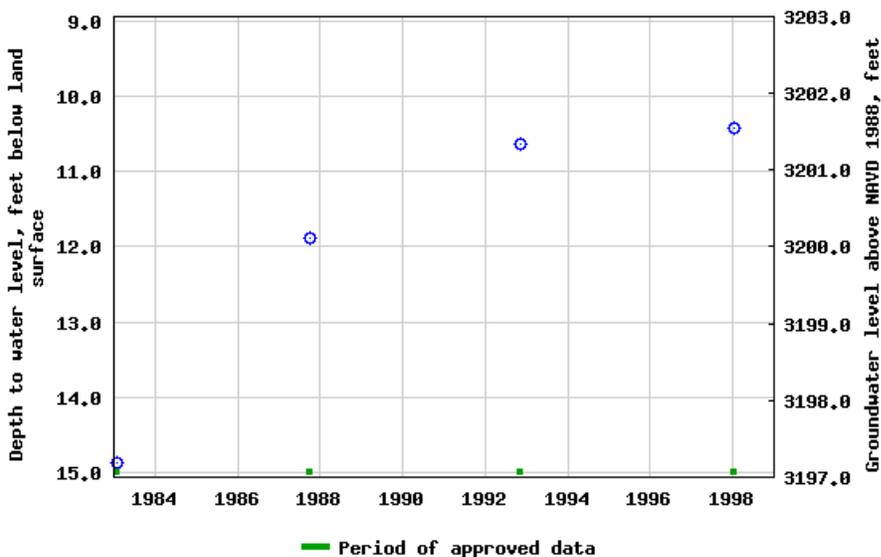
The depth of the well is 16 feet below land surface.

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

Output formats

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

USGS 320629104151301 25S.26E.26.22231



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



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0.53 0.46 nadww02

Appendix B

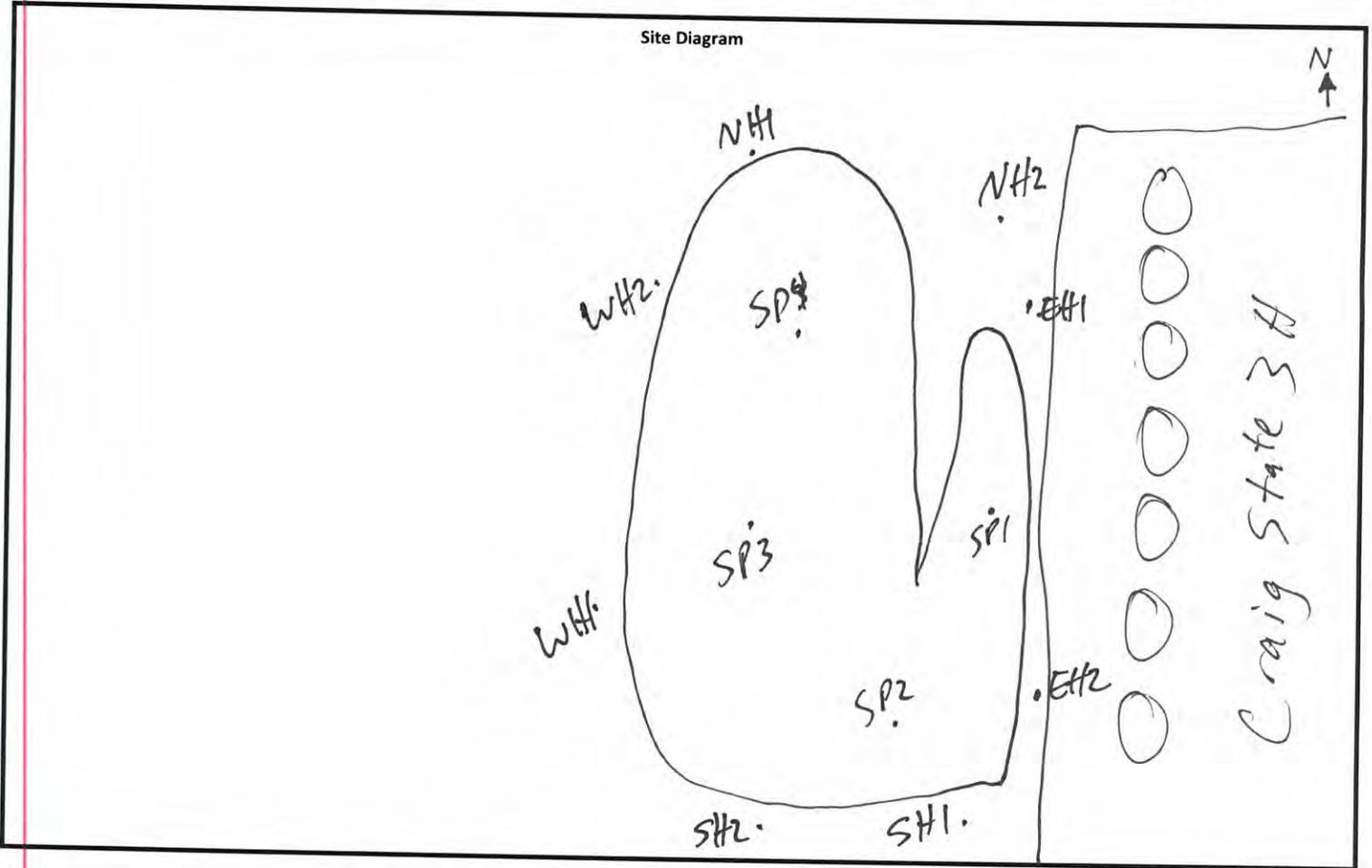
Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: Craig State #3 Date: 1.9.20
 Clean Up Level: 0
 Project Number: 11733 Latitude: 32.092387 Longitude: -104.249677

Site Diagram



Notes: collect samples and delineate release area; field screen samples; photograph area

~Length: 150 ~Width: 75 ~Area: ~Depth: 1'-4'

- | | Yes | No |
|--|-------------------------------------|--------------------------|
| 3-4 Representative Pictures of the Affected Area including sample locations? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Necessary Samples Field Screened and on Ice? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample and Field Screen Data Entered on Sample Log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Was horizontal and vertical delineation achieved? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |



Soil Profile

Date: 1.9.20

Project: Craig State #3

Project Number: 11733 Latitude: 32.092387 Longitude: -104.249677

Depth (ft. bgs)

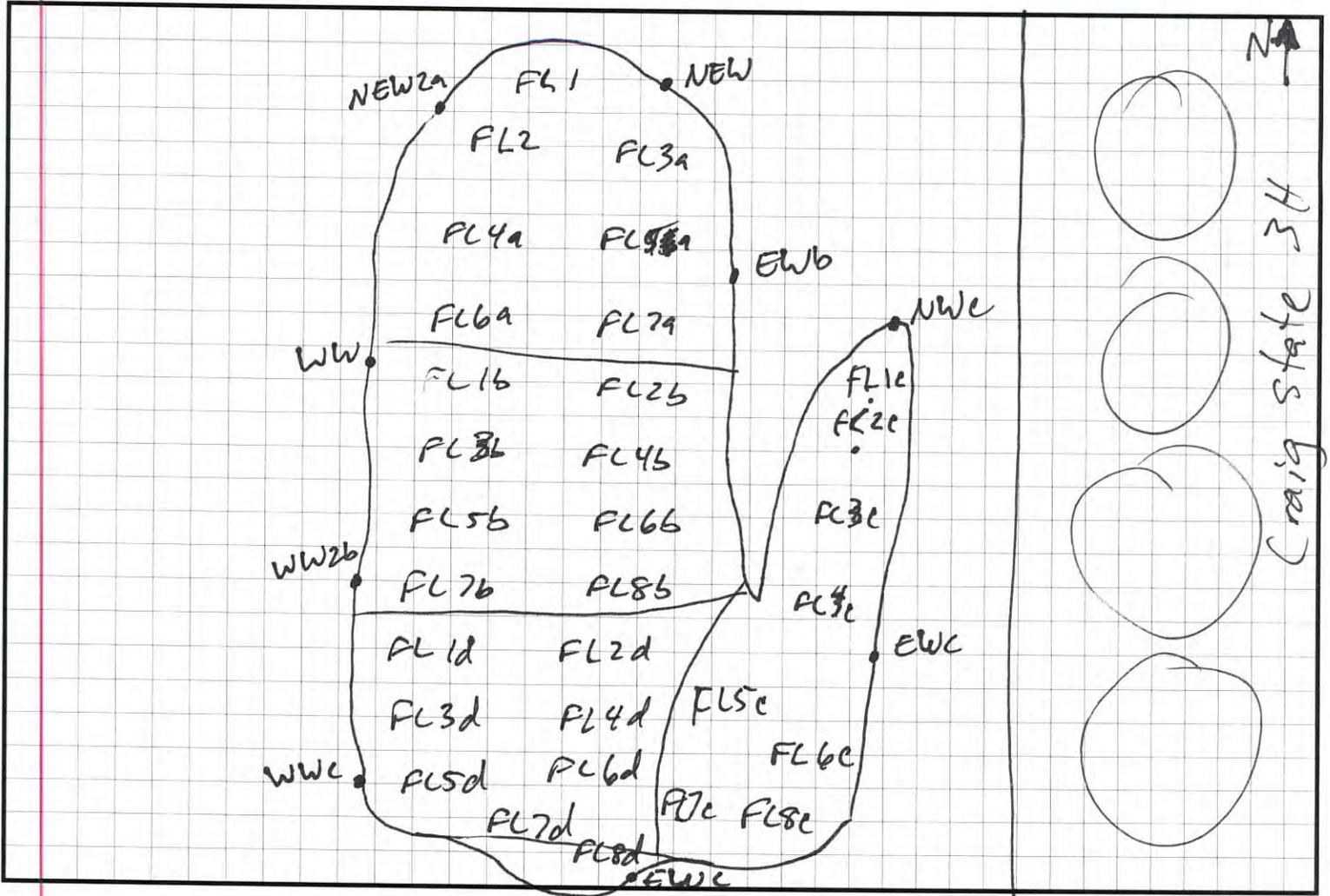
Description

1	Caliche	Caliche' on top with discoloration to the pad
2	brown	red and yellow stain had to use rocks here
3	red	
4	red	
5		
6		
7		
8		
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FIELD NOTES

Site Name: Craig State #3

Date: 2-24-20
2-25-20



collect confirmation samples from excavation

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride



Sample Log

Date: 2-25-20

Project: Craig St. #3H

Project Number: 11937

Latitude: 32.092387

Longitude: -104.249677

Sample ID	PID/Odor	Chloride Conc.	GPS
PL1A @ 3'		496	
PL2A @ 3'		580	
PL3A @ 3'		496	
PL4A @ 3'		580	
PL5A @ 3'		204	
PL6A @ 3'		204	
PL7A @ 3'		120	
PL8A @ 3'		120	
PL1b @ 3'		304	
PL2b @ 3'		304	
PL3b @ 3'		344	
PL4b @ 3'		268	
PL5b @ 3'		388	
PL6b @ 3'		432	
PL7b @ 3'		388	
PL8b @ 3'		236	
PL1C @ 4 1/2'		580	
PL2C @ 4 1/2'		580	
PL3C @ 4 1/2'		432	
PL4C @ 4 1/2'		432	
PL5C @ 5 1/2'		172	
PL6C @ 5 1/2'		268	
PL7C @ 5 1/2'		236	
PL8C @ 5 1/2'		236	
PL1d @ 5'		432	
PL2d @ 5'		344	
PL3d @ 5'		268	
PL4d @ 5'		388	
PL5d @ 5'		204	
PL6d @ 5'		236	
PL7d @ 5'		388	
PL8d @ 5'		304	
NEWA2 @ 3'		204	
Wwb2 @ 3'			
EWc2 @ 5 1/2'			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Laboratory Analytical Reports



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

January 16, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: CRAIG STATE 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/13/20 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 1 @ SURFACE (H000114-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 1 @ 1' (H000114-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTEX	<0.300	0.300	01/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25		
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND						

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 2 @ SURFACE (H000114-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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 JOEL LOWRY
 P.O. Box 301
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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 2 @ 1' (H000114-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 1 @ SURFACE (H000114-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 1 @ 1' (H000114-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 2 @ SURFACE (H000114-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 2 @ 1' (H000114-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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Analytical Results For:

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 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 1 @ SURFACE (H000114-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 1 @ 1' (H000114-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 2 @ SURFACE (H000114-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 2 @ 1' (H000114-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 1 @ SURFACE (H000114-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/15/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 1 @ 1' (H000114-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/15/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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 P.O. Box 301
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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 2 @ SURFACE (H000114-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/15/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.22	104	6.00	0.865		
Total BTEX	<0.300	0.300	01/15/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18		
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73		
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND						

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.1 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 2 @ 1' (H000114-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H000114-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/10/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 1 @ 4' (H000114-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H000114-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	26.6	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/10/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 2 @ 4' (H000114-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H000114-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 3 @ 1' (H000114-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 4 @ SURFACE (H000114-23)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 4 @ 2' (H000114-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.	P.O. #:	
Project Manager: Joel Lowry	Company:	Concho
Address: P.O. Box 301	Attn:	
City: Lovington	State: NM	Zip: 88260
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:
Project #: 11733	Project Owner: Concho	City:
Project Name: Craig State 3H	State:	Zip:
Project Location: Rural Eddy	Phone #:	
Sampler Name: Hector Villa	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
1	NH1 @ Surf	g	1	X									1/9/20	11:30	X	X	X
2	NH1 @ 1'	g	1	X									1/9/20	11:40	X	X	X
3	NH2 @ Surf	g	1	X									1/9/20	11:50	X	X	X
4	NH2 @ 1'	g	1	X									1/9/20	12:00	X	X	X
5	EH1 @ Surf	g	1	X									1/9/20	12:10	X	X	X
6	EH1 @ 1'	g	1	X									1/9/20	12:20	X	X	X
7	EH2 @ Surf	g	1	X									1/9/20	12:30	X	X	X
8	EH2 @ 1'	g	1	X									1/9/20	12:40	X	X	X
9	SH1 @ Surf	g	1	X									1/9/20	12:50	X	X	X
10	SH1 @ 1'	g	1	X									1/9/20	13:00	X	X	X

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Relinquished By: <i>[Signature]</i>	Date: 1-13-20	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Time: 16:30	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: _____	Date: _____	Received By: _____	REMARKS:	
Relinquished By: _____	Time: _____	Received By: _____		

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: #113 - O.K.	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	

FORM-006
 Revision 1.0
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.	P.O. #:	
Project Manager: Joel Lowry	Company:	Concho
Address: P.O. Box 301	Attn:	
City: Lovington	State: NM	Zip: 88260
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:
Project #: 11733	Project Owner: Concho	City:
Project Name: Craig State 3H	State:	Zip:
Project Location: Rural Eddy	Phone #:	
Sampler Name: Hector Villa	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	SH2 @ Surf	g	1	X						1/9/20	13:10	X	X	X
12	SH2 @ 1'	g	1	X						1/9/20	13:20	X	X	X
13	WH1 @ Surf	g	1	X						1/9/20	13:30	X	X	X
14	WH1 @ 1'	g	1	X						1/9/20	13:40	X	X	X
15	WH2 @ Surf	g	1	X						1/9/20	13:50	X	X	X
16	WH2 @ 1'	g	1	X						1/9/20	14:00	X	X	X
17	SP1 @ Surf	g	1	X						1/9/20	14:10	X	X	X
18	SP1 @ 4'	g	1	X						1/10/20	9:00	X	X	X
19	SP2 @ Surf	g	1	X						1/9/20	14:30	X	X	X
20	SP2 @ 4'	g	1	X						1/10/20	9:30	X	X	X

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Relinquished By: <i>Walter L...</i>	Date: 1-13-20	Time: 16:30	Received By: <i>Yvonne...</i>
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 - 0.4:	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>YO</i>	REMARKS: Please email results to pm@etechnv.com.



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: P.O. Box 301 City: Lovington Phone #: (575) 396-2378 Project #: 11733 Project Name: Craig State 3H Project Location: Rural Eddy Sampler Name: Hector Villa FOR LAB USE ONLY		State: NM Zip: 88260 Fax #: (575) 396-1429 Project Owner: Concho City: Concho State: Zip: Phone #: Fax #:		BILL TO P.O. #: Company: Concho Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST							
Lab I.D. HOBO114 Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : PRESERV. SAMPLING		DATE TIME		Chloride TPH (8015M) BTEX (8021B)							
21 SP3 @ Surf 22 SP3 @ 1' 23 SP4 @ Surf 24 SP4 @ 2'		g 1 g 1 g 1 g 1		1/9/20 1/9/20 1/9/20 1/9/20		14:50 15:00 15:10 15:50		X X X X X X X X X X X X X X X X					
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Relinquished By: <i>[Signature]</i> Date: 1-13-20 Time: 14:30		Received By: <i>[Signature]</i> Date: 1-13-20 Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #:		REMARKS:							
Relinquished By: <i>[Signature]</i> Date: Time:		Received By: <i>[Signature]</i> Date: Time:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>[Signature]</i> (Initials)							
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>#113</i> - <i>0.42</i>		Please email results to pm@etechnv.com											



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

February 27, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: CRAIG STATE 3H

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 8:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 A @ 3' (H000605-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 A @ 3' (H000605-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 A @ 3' (H000605-05)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 A @ 3' (H000605-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 A @ 3' (H000605-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 A @ 3' (H000605-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 b @ 3' (H000605-11)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 b @ 3' (H000605-12)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.4 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 b @ 3' (H000605-13)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 88.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 b @ 3' (H000605-14)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 83.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.2 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 b @ 3' (H000605-15)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.8 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 b @ 3' (H000605-16)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.1 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2 C @ 4.5' (H000605-18)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 C @ 4.5' (H000605-19)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 C @ 4.5' (H000605-20)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 C @ 5.5' (H000605-21)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 C @ 5.5' (H000605-22)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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* = Accredited Analyte

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 C @ 5.5' (H000605-23)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 C @ 5.5' (H000605-24)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76		
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND						

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2 D @ 5' (H000605-26)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEX	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76		
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND						

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 d @ 5' (H000605-27)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 d @ 5' (H000605-28)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 d @ 5' (H000605-29)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.0 % 42.2-156

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Analytical Results For:

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 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 d @ 5' (H00605-30)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEX	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76		
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND						

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 @ 5' (H000605-31)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.8 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 d @ 5' (H000605-32)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEX	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 94.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EW C @ 5.5' (H000605-33)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEX	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NEW 2A @ 3' (H000605-34)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEX	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76		
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND						

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WW 2b @ 3' (H000605-35)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions		BILL TO				ANALYSIS REQUEST														
Project Manager: Joel Lowry		P.O. #:																		
Address: 3100 Plains Hwy		Company: COG																		
City: Lovington State: NM Zip: 88260		Attn: Dakota Neel																		
Phone #: 575-396-2378 Fax #: 575-396-1429		Address:																		
Project #: 11733 Project Owner: COG		City:																		
Project Name: Craig St. #3H		State: Zip:																		
Project Location: Eddy		Phone #:																		
Sampler Name: Hector Uilla		Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021			
H000605																				
	1 FL1A@3'	C	1			X							1-25-20		X	X	X	NO SAMPLE		
	2 FL2A@3'	C	1			X							1-25-20		X	X	X			
	3 FL3A@3'	C	1			X							1-25-20		X	X	X			
	4 FL4A@3'	C	1			X							1-25-20		X	X	X			
	5 FL5A@3'	C	1			X							1-25-20		X	X	X			
	6 FL6A@3'	C	1			X							1-25-20		X	X	X			
	7 FL7A@3'	C	1			X							1-25-20		X	X	X			
	8 FL8A@3'	C	1			X							1-25-20		X	X	X			
		C	1			X							1-25-20		X	X	X			

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Relinquished By: <i>[Signature]</i>	Date: 2/26/20	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 08:58		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to <u>PM@Etechenv.com</u>	
	Time:		Client Contacts	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	Rush Samples taken off COC per Joel L.	
Sampler - UPS - Bus - Other: -6.8°C #113	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>		
	Yes <input type="checkbox"/> No <input type="checkbox"/>			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

March 02, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: CRAIG STATE 3H

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 8:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1 @ 3' (H000610-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2 @ 3' (H000610-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NEW @ 3' (H000610-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42		
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36		
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND						

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.1 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WW @ 3' (H000610-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1b @ 3' (H000610-05)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2b @ 2' (H000610-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EW b @ 3' (H000610-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1C @ 4' (H000610-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NW C @ 4' (H000610-09)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EW C @ 4' (H000610-10)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WW C @ 4' (H000610-11)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1d @ 2' (H000610-12)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTEX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Appendix D

Photographic Log

Photographic Log

Photo Number: #1	
Photo Direction: East	
Photo Description: view across release area	

Photo Number: #2	
Photo Direction: Northeast	
Photo Description: view across release area	

Photographic Log

Dates: 02/21/2020 - 02/28/2020

Photo Number: #3	
Photo Direction: North	
Photo Description: view across excavated area	

Photo Number: #4	
Photo Direction: North	
Photo Description: view across excavated area	

Photographic Log

Dates: 03/09/2020

Photo Number: #5
Photo Direction: Northeast
Photo Description: excavation backfilled



Photo Number: #6
Photo Direction: North
Photo Description: excavation backfilled

