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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nRM2022554489
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

			resp	onsible I al i	J.				
Responsible Party: Targa Resources				OGRID	OGRID				
Contact Name: Joseph Tillman Austin				Contact T	Contact Telephone: 575-631-7093				
Contact ema:	Contact email: jaustin@targaresources.com				Incident # (assigned by OCD)				
Contact mail	ing address:	PO Box 1689, Lo	vington, NM 88260	)					
			Location	of Release S	ource				
Latitude 33.3	1132		(NAD 83 in dec	Longitude imal degrees to 5 deci	-103.61220 inal places)				
Site Name: Bo	agley			Site Type	: 7" Steel Pipeline				
Date Release	Discovered:	: 08/03/2020	= ::::::::::::::::::::::::::::::::::::	API# (if ap	plicable)				
Unit Letter	Section	Township	Range	Cou	County				
Н	S4	T12S	R33E	Le	ea e				
Crude Oil	Materia	l(s) Released (Select al Volume Release			Release  c justification for the volumes provided below)  Volume Recovered (bbls)				
					Volume Recovered (bbls)				
Produced Water Volume Released (bbls)  Is the concentration of dissolved chloride produced water >10,000 mg/l?				nloride in the	Yes No				
Condensate Volume Released (bbls)					Volume Recovered (bbls)				
Natural Gas			d (Mcf): 218.80		Volume Recovered (Mcf): 0				
Other (describe) Volume/Weight Released (provide units)				units)	) Volume/Weight Recovered (provide units)				
Targa Resour and replaced.	scovered on ces isolated During thi	l the leak until per. is event, Targa pro	manent repairs coi	ıld be made. Targ he section of pipe	alt of internal corrosion. Upon discovery of the leak to the deak to the deak that a section of pipe would be removed that a section of pipe with new pipe. After the				

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# State of New Mexico Oil Conservation Division

Incident ID	nRM2022554489
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
The impacted area has	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
	d above have not been undertaken, explain why: This was a gas release only, there were no liquids released.
The gas was emitted to atr	mosphere and no free-standing liquid accumulated on site.
Per 10 15 20 8 B (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environm	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigated addition, OCD acceptance of	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f 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: Chris Priot	Title: Area Manager
Signature: Chapt	Date: 8-11-20
Email: cprice@targaresou	Telephone: <u>575-602-6005</u>
OCD Only	
Received by:	Date:

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

Incident ID	nRM2022554489
District RP	
Facility ID	
Application ID	

### Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
✓ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
✓ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Chris Price  Title: Area Manager  Date: 5-4-21  email: cprice@targaresources.com  Telephone: (575)602-6005
OCD Only  Received by:Cristina Eads
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: 06/16/2021
Printed Name: Cristina Eads Title: Environmental Specialist
Q.

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Incident ID	nRM2022554489
District RP	
Facility ID	
Application ID	

### Closure

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

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.
✓ A scaled site and sampling diagram as described in 19.15.29.	.11 NMAC
Photographs of the remediated site prior to backfill or photo must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropriate OD	OC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Signature:	Date:
email: cprice@targaresources.com	Telephone: (575)602-6005
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

# Remediation Summary & Soil Closure Request

### Targa Midstream Services, LLC Bagley 7-Inch

Lea County, New Mexico
Unit Letter "H", Section 4, Township 12 South, Range 22 East
Latitude 33.310876 North, Longitude 103.612268 West
NMOCD Reference No. nRM2022554489

Prepared By:

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

3100 Plains Highway Lovington, New Mexico 88260

Ben J. Arguijo

Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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Figure 2 - Aerial Proximity Map

Figure 3 - Site & Sample Location Map

### **TABLES**

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

### **APPENDICES**

Appendix A - Depth to Groundwater Information

Appendix B - Field Data & Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Targa Midstream Services, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Bagley 7-Inch (henceforth, "Site"). Details of the release are summarized below:

Latitude: 33.310876 Longitud						gitude:		-103.612268	
				Provide	d GPS are in WO	GS84 format.			
Site Name:			ley 7-Inch		Site Typ			Pipeline	
Date Release Dis	covered	<u>l:</u>	8/3/	2020	API # (i	f applicab	le):	N/A	
Unit Letter	Sect	ion	Tow	nship	Range	;	County		
"H"	4		1	2S	22E		Lea		
urface Owner:	X Stat	е П	Federal	Tribal	Private	(Name			
'		Ш	•			c D	1		
			N	Nature ar	id Volum	ie of Ke	elease		
Crude Oil		Volum	e Release	d (bbls)			Volume Reco	vered (bbls)	
Produced V	Vater	Volum	e Release	d (bbls)			Volume Recovered (bbls)		
Is the concentration of di			on of dissol	ved chloride	in the	Yes	No N/A		
produced water > 10,000 mg/L?									
Condensate	;	Volum	e Release	d (bbls)			Volume Recovered (bbls)		
X Natural Gas Volume Released (Mcf)			218.8		Volume Reco	vered (Mcf) 0			
Other (describe) Volume/Weight Released					Volume/Weigh	nt Recovered			
Cause of Releas	se:								
	-							he leak Targa Resources isolated the leak is event, Targa proceeded to isolate the	
			-					e line back into service.	
				In	itial Resp	onse			
X The source of	of the re	lease ha	ıs been stoj	pped.					
X The impacted	d area ha	as been	secured to	protect hum	an health and	d the envir	onment.		
X Release mat	erials ha	ve beer	n contained	via the use	of berms or o	dikes, abso	orbent pad, or of	ther containment devices	
_									

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 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?	52'
Did the release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes No

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

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

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

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

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

### 4.0 INITIAL SITE ASSESSMENT

On September 29, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, ten (10) delineation soil samples (V1 @ 3', V1 @ 4', NH1 @ SURF, NH1 @ 2', EH1 @ SURF, EH1 @ 2', SH1 @ SURF, SH1 @ 2', WH1 @ SURF, and WH1 @ 2') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples, with the exceptions of soil samples V1 @ 3' (1,350 mg/kg GRO+DRO), V1 @ 4' (6,250 mg/kg TPH), EH1 @ 2' (1,520 mg/kg Cl-), and SH1 @ 2' (1,450 mg/kg Cl-). Based on laboratory analytical results, vertical and horizontal delineation was not achieved.

On November 13, 2020, Etech continued the initial site assessment. A test trench was advanced in the area characterized by sample point V1 in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area to the south and east in an effort to determine the horizontal extent of impacted soil. During the advancement of the test trench and hand-augered soil bores, field soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, five (5) delineation soil samples (#1 SOUTH 0-1', #2 SOUTH 1-2', #2 EAST 0-1', #2 EAST 1-2', and V 1 6') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond six (6) feet below ground surface (bgs), and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

### 5.0 PROPOSED REMEDIATION PLAN

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

- Excavate impacted soil affected above the NMOCD Closure Criteria within the release margins to a depth of approximately six (6) feet bgs.
- Advance excavation sidewalls horizontally until laboratory analytical results from confirmation soil samples indicate concentrations of chloride and TPH are below the NMOCD Reclamation Standard.
- Temporarily stockpile excavated soil on-site, pending transfer to an NMOCD-permitted disposal facility.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

### 6.0 REGULATORY APPROVALS & STIPULATIONS

On December 28, 2020, a *Site Assessment Report and Proposed Remediation Workplan* was submitted to the NMOCD proposing remediation activities designed to advance the Site toward regulatory closure. The workplan was subsequently approved by the NMOCD.

Please reference the Site Assessment Report and Proposed Remediation Workplan for additional details regarding site characterization and proposed remediation activities.

### 7.0 REMEDIATION ACTIVITIES SUMMARY

On March 22, 2021, remediation activities commenced at the Site. In accordance with the NMOCD-approved workplan, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and a Hach Quantab ® chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On March 25, 2021, Etech collected four (4) confirmation soil samples (NW1, SW1, FL1 @ 4', and FL2 @ 6') from the sidewalls and floor of the excavation. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil sample FL2 @ 6' (81.1 mg/kg BTEX and 2,880 mg/kg TPH).

On March 26, 2021, Etech collected six (6) confirmation soil samples (EW1, WW1, and FL3 @ 4' through FL6 @ 4') from the sidewalls and floor of the excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On April 9, 2021, the excavation was further advanced in the areas characterized by soil samples EW1 and FL2 @ 6'. Etech collected five (5) confirmation soil samples (NWB, EWB, SWB, WWB, and FL2 @ 10') from the sidewalls and floor of the excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples, with the exceptions of soil samples NWB (1,580 mg/kg TPH), EWB (1,500 mg/kg TPH), SWB (1,910 mg/kg TPH), and FL2 @ 10' (3,460 mg/kg TPH).

On April 15, 2021, the excavation was further advanced in the areas characterized by soil samples NWB, EWB, SWB, and FL2 @ 10'. Etech collected four (4) confirmation soil samples (NWC, EWC, SWC, and FL2 @ 13') from the sidewalls and floor of the excavation. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 50 feet in length, 10 to 28 feet in width, and four (4) to 13 feet in depth. During the course of remediation activities, approximately 316 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal.

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

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

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

### 9.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with an NMOCD-approved workplan. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-permitted 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 Targa Midstream Services, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Site.

### 10.0 LIMITATIONS

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

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

### 11.0 DISTRIBUTION

Targa Midstream Services, LLC 110 W 7th, Suite 2300 Tulsa, OK 74119

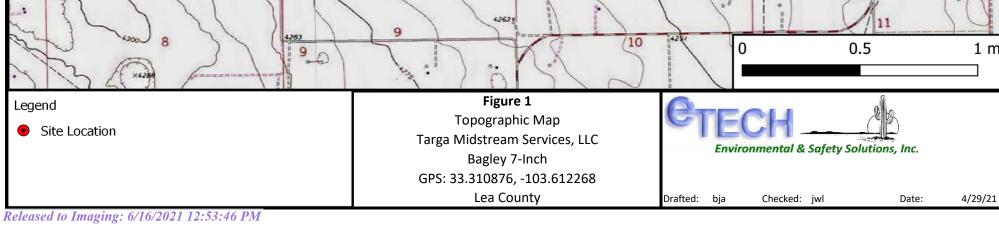
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

### Hobbs Field Office

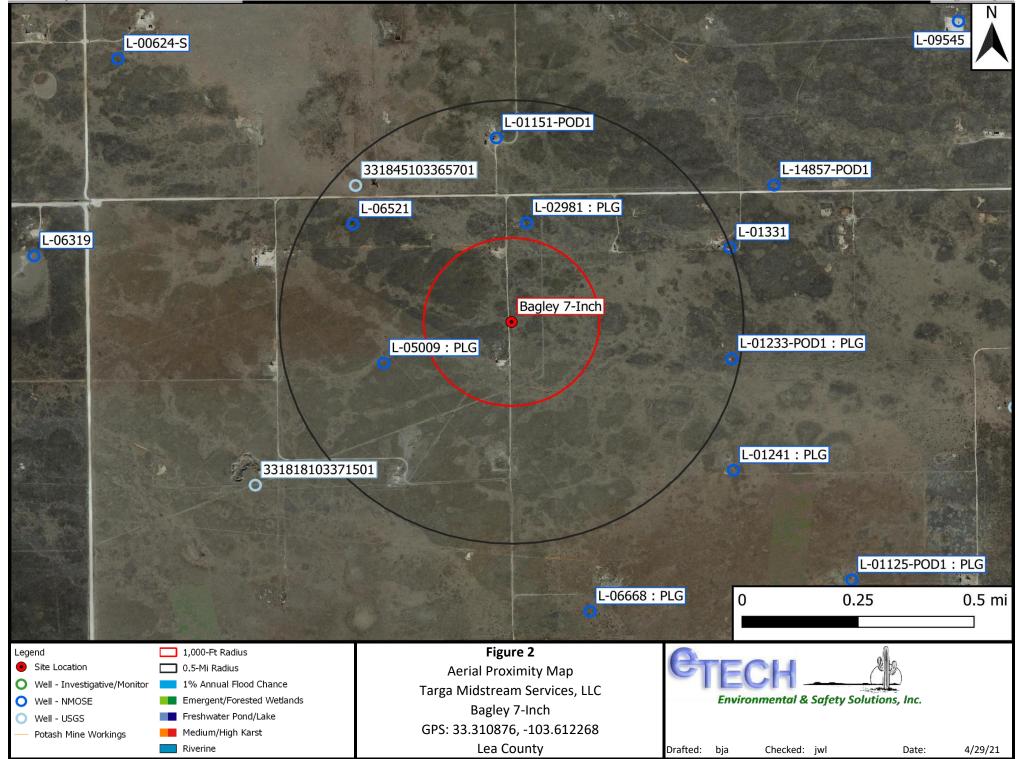
New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

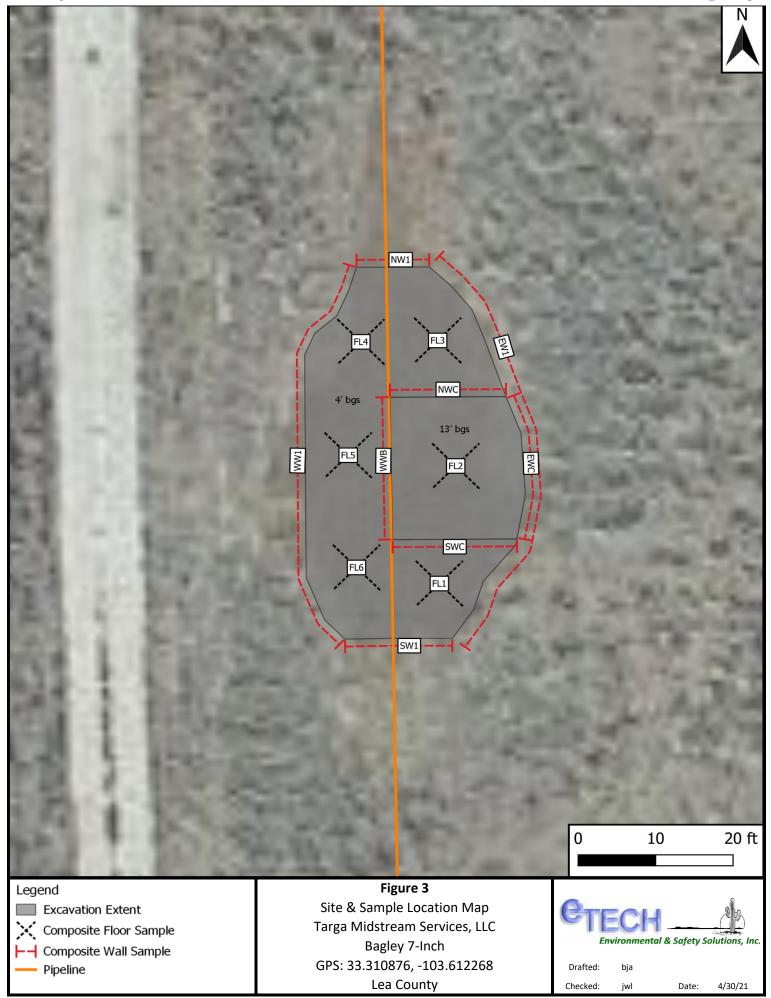
## Figure 1 Topographic Map



## Figure 2 Aerial Proximity Map



# Figure 3 Site & Sample Location Map



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

# TABLE 1 CONCENTRATIONS OF BTEX, TPH & CHLORIDE IN SOIL Targa Midstream Services, LLC

Bagley 7-Inch

				NMOC	D Ref. #: r	RM2022	554489				
NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
V1@2!	0/20/2020	21	E	0.120	Delineation		605	1.250	ر <u>د</u> د د د	1 250	250
V1@3'	9/29/2020	3'	Excavated	0.129	11.8	749	605	1,350	<50.0	1,350	358
V1@4'	9/29/2020	4' 0'	Excavated  Lea Cites	1.37	135	4,800	1,360	6,160	94.6	6,250	416
NH1@SURF	9/29/2020	2'		<0.00199		<50.0	60.8	60.8	<50.0	60.8	13.6
NH1@2'	9/29/2020		In-Situ			<49.9	<49.9	<49.9	<49.9	<49.9	14.8
EH1@SURF	9/29/2020	0' 2'	Excavated	10.00201		<49.8	<49.8	<49.8	<49.8	<49.8	56.6
EH1@2'	9/29/2020	_		<0.00198		<50.0	<50.0	<50.0	<50.0	<50.0	1,520
SH1@SURF	9/29/2020	0' 2'	Excavated		<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
SH1@2'	9/29/2020		Excavated		<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,450
WH1@SURF	9/29/2020	0'	In-Situ			<49.8	<49.8	<49.8	<49.8	<49.8	12.6
WH1@2'	9/29/2020	2'		< 0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	11.8
#1 SOUTH 0-1'	11/13/2020	0'-1'	In-Situ	-	-	-	-	-	-	-	<16.0
#2 SOUTH 1-2'	11/13/2020	1'-2'	In-Situ	-	-	-	-	-	-	-	<16.0
#2 EAST 0-1'	11/13/2020	0'-1'	In-Situ	-	-	-	-	-	-	-	<16.0
#2 EAST 1-2'	11/13/2020	1'-2'	In-Situ	- 0.050	- 0.200	10.0	-	-	-	-	<16.0
V 1 6'	11/13/2020	6'	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
NIXV1	2/25/2021	0'-4'	In City	<u>د٥ ٥٥٥</u> ٥٥	Excavation	_	05.2	05.2	-50 O	05.2	27.4
NW1 NWB	3/25/2021	0'-10'		<0.00200		<50.0	95.2	95.2	<50.0	95.2	27.4
	4/9/2021		Excavated  Lea Cites		0.0576	84.6	1,500	1,580	<49.9	1,580	393
NWC	4/15/2021	0'-13'	In-Situ	-0.00200	-0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	260
EW1	3/26/2021	0'-4'		<0.00200		51.4	<49.8	51.4	<49.8	51.4	260
EWE	4/9/2021	0'-10'		<0.00200	0.105	70.2	1,430	1,500	<50.0	1,500	348
EWC	4/15/2021	0'-13'	In-Situ	-0.00202	-0.00000	<50.1	<50.1	<50.1	<50.1	<50.1	40.0
SW1	3/25/2021	0'-4'		<0.00202		<50.0	<50.0	<50.0	<50.0	<50.0	40.0
SWB	4/9/2021			<0.00200	0.0323	<50.0	1,910	1,910	<50.0	1,910	257
SWC	4/15/2021	0'-13'	In-Situ		-0.00100	<49.8	<49.8	<49.8	<49.8	<49.8	250
WW1	3/26/2021	0'-4'			<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	250
WWB	4/9/2021	0'-10'		<0.00202	0.0921	128	398	526	<50.0	526	626
FL1 @ 4'	3/25/2021	4'			<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	229
FL2 @ 6'	3/25/2021	6'	Excavated		81.1	2,090	794	2,880	<48.8	2,880	466
FL2 @ 10'	4/9/2021	10'	Excavated		-	1,640	1,820	3,460	<49.9	3,460	-
FL2 @ 13'	4/15/2021	13'	In-Situ		- 0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	-
FL3 @ 4'	3/26/2021	4'		<0.00198		<49.9	<49.9	<49.9	<49.9	<49.9	528
FL4 @ 4'	3/26/2021	4'		<0.00202		<49.7	<49.7	<49.7	<49.7	<49.7	580
FL5 @ 4'	3/26/2021	4'			<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	512
FL6 @ 4'	3/26/2021	4'	In-Situ	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	546

NOTES:

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

<sup>- =</sup> Sample not analyzed for that constituent.

# Appendix A Depth to Groundwater Information

Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
Targa Midstream Services, LLC

Bagley 7-Inch

GPS: 33.310876, -103.612268

Lea County



Drafted: bja

Checked: jwl

Date:

4/29/21



## 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													
		Sub-		Q	Q	Q								1	Water
<b>POD Number</b>	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDep	thWater C	olumn
<u>L 02981</u>		L	LE	2	2	2	04	12S	33E	629237	3686969*	312	143	70	73
<u>L 05009</u>		L	LE		3	2	04	12S	33E	628741	3686462*	491	110	40	70
L 01151 POD1		L	LE		4	4	33	11S	33E	629132	3687276*	618	130	50	80
<u>L 06521</u>		L	LE	1	1	2	04	12S	33E	628634	3686964*	633	130	60	70
L 01233 POD1		L	LE		4	1	03	12S	33E	629949	3686478*	780	130	45	85
I 01331		Ţ	IF		2	1	03	129	33E	620043	3686880*	784	125	68	57

Average Depth to Water:

55 feet

Minimum Depth:

40 feet

Maximum Depth:

70 feet

**Record Count:** 6

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 629190.34 **Northing (Y):** 3686660.14 **Radius:** 804.67

\*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.

9/24/20 9:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# **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

L 01151 POD1

33 11S 33E

629132 3687276\*

**Driller Company: Driller License:** 

**Driller Name: CLAUDE TATUM** 

**Drill Start Date:** 07/20/1951

7.00

**Drill Finish Date:** 

07/26/1951

**Plug Date:** 

Log File Date:

09/12/1952

**PCW Rcv Date:** 09/17/1952 Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

**Depth Well:** 

130 feet

**Depth Water:** 

50 feet

Water Bearing Stratifications:

**Top Bottom Description** 

130 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

50

100 130

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9/24/20 9:16 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

L 01233 POD1

03 12S 33E

629949 3686478\*

**Driller License:** 

**Driller Company:** 

**Driller Name:** 

**CLAUDE TATUM** 

**Drill Start Date:** 

10/16/1951

**Drill Finish Date:** 

10/17/1951

**Plug Date:** 

07/30/1952

Log File Date:

02/18/1952

**PCW Rcv Date:** 03/20/1953 Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Depth Well:** 

**Estimated Yield:** 

**Casing Size:** 

130 feet

**Depth Water:** 

45 feet

**Water Bearing Stratifications:** 

7.00

**Top Bottom Description** 

45

130 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

90 130

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9/24/20 9:16 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

L 01331

03 12S 33E

629943 3686880\*

**Driller License:** 33 **Driller Company:** 

TATUM CLAUDE E.

**Driller Name:** 

TATUM, CLAUDE E.

**Drill Start Date:** 

01/09/1952

**Drill Finish Date:** 

01/10/1952

Plug Date:

Shallow

Log File Date:

02/18/1952

**PCW Rcv Date:** 

03/20/1953

Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

125 feet

**Depth Water:** 

68 feet

Water Bearing Stratifications:

Top Bottom Description

70

125 Sandstone/Gravel/Conglomerate

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9/24/20 9:16 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

L 02981 04 12S 33E 629237 3686969\*

116 **Driller Company:** MATTHEWS DRILLING CO. **Driller License:** 

JAMES WILLIAM MATTHEWS **Driller Name:** 

**Drill Start Date:** 09/30/1955 **Drill Finish Date:** 09/30/1955

Plug Date:

09/26/1956

Log File Date:

10/01/1956

**PCW Rcv Date:** 

Depth Well:

Source:

**Pump Type:** 

**Estimated Yield:** 

Shallow

**Casing Size:** 

Pipe Discharge Size:

143 feet

Depth Water:

70 feet

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9/24/20 9:16 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Q64 Q16 Q4 Sec Tws Rng Well Tag **POD Number** 

X

L 05009 2 04 12S 33E

628741 3686462\*

**Driller License:** 

274

**Driller Company:** 

BAKER, E.B. DRILLING COMPANY

**Driller Name:** 

**Drill Start Date:** 12/04/1962 **Drill Finish Date:** 

12/04/1962

Plug Date:

04/30/1963

Log File Date:

01/11/1963

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

110 feet

**Depth Water:** 

40 feet

Water Bearing Stratifications:

Top Bottom Description

108 Sandstone/Gravel/Conglomerate

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50

9/24/20 9:16 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

L 06521

04 12S 33E

628634 3686964\*

**Driller License:** 46 **Driller Company:** 

ABBOTT BROTHERS COMPANY

**Driller Name:** 

MURRELL ABBOTT

**Drill Start Date:** 

05/07/1969

**Drill Finish Date:** 

05/08/1969

**Plug Date:** 

01/18/1973

Log File Date:

05/21/1969

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

**Depth Well:** 

130 feet

**Depth Water:** 

60 feet

Water Bearing Stratifications:

Top Bottom Description

Sandstone/Gravel/Conglomerate

60 103

Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

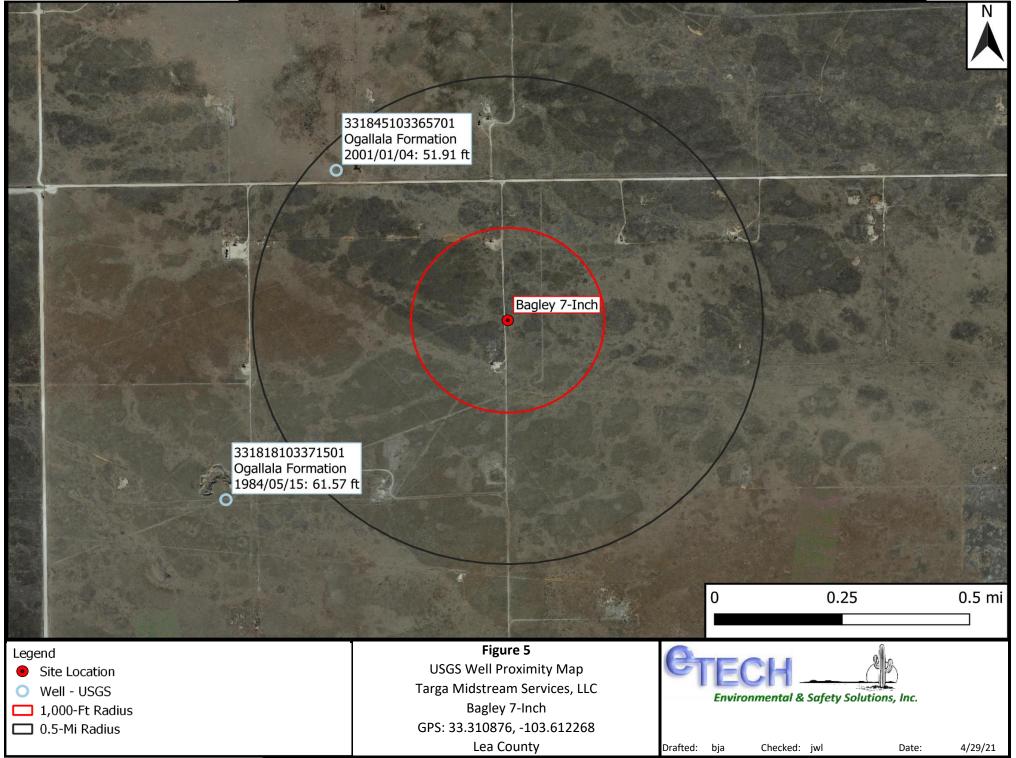
Top Bottom

85 127

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.

9/24/20 9:16 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help





**National Water Information System: Web Interface** 

**USGS** Water Resources

USGS Home Contact USGS Search USGS

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GC

Click forNews Bulletins

Groundwater levels for the Nation

\* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 331818103371501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 331818103371501 12S.33E.04.32322

Lea County, New Mexico
Latitude 33°18'20", Longitude 103°37'17" NAD27
Land-surface elevation 4,271.00 feet above NGVD29
The depth of the well is 102 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

#### **Output formats**

Table of data	<u>l</u>										
<u>Tab-separate</u>	ed data										
Graph of dat	<u>a</u>										
Reselect per	<u>od</u>										
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1984-05-	15		D 72019	9 61.5	7			1	Z		A

#### Explanation

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

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-04-29 23:49:30 EDT

0.4 0.33 nadww01





**National Water Information System: Web Interface** 

USGS Water Resources

**USGS** Home Contact USGS Search USGS

ata Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

\* IMPORTANT: Next Generation Station Page

### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 331845103365701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 331845103365701 11S.33E.33.433442

Lea County, New Mexico Latitude 33°18'55", Longitude 103°37'03" NAD27 Land-surface elevation 4,268.50 feet above NGVD29 The depth of the well is 80 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formate

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

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1961-01-19		D	72019	54.37				1 2	<u> </u>		
1966-02-09		D	72019	54.90				1 2	Z		
1971-03-18		D	72019	54.42				1 2	Z		,
1976-05-26		D	72019	54.95				1 2	<u>z</u>		,
1981-02-13		D	72019	56.02				1	<u>z</u>		,
1984-05-09		D	72019	55.08				1 2	7		,

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1986-01-09		D	72019	54.67				1	Z		А
1990-11-29		D	72019	53.54					Z		Α
1996-01-23		D	72019	52.53				1	S		Α
2001-01-04		D	72019	51.91				1	S		Α

#### Explanation

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

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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

JKL. IIIIps.//IIWis.Wateruata.usgs.gov/IIWis/gwieveis

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-04-29 23:50:48 EDT

0.45 0.29 nadww01

USA.gov

# Appendix B Field Data & Soil Profile Logs



### Sample Log

ח	2	+	Δ	
$\boldsymbol{\nu}$	а	U	C	•

9-29, 11-13, 17-1

Project: Bagley 7-Inch

Project Number: 13146 Latitude:

33.310876

Longitude:

-103.612268

Sample ID	PID/Odor	Chloride Conc.	GPS
VIQI	Strong	990	
VI 0 2	Strong	446	
11/03	Slight	<u> </u>	
VIOU	Very Strong	400	
NALesurt	sone -	ND	
NHIO 21	none	NO	
CHIO Surt	None		
SHI @ 2'	hore	1350	
SHIQ Surf	hone	$\sim$ $\sim$	
SX101'	hone	790	
5#1021	Done	1520	
WHIUSURT	hore	ND	
w # 10 1'	hore	340	
WH1021	hone	ND	
V105'	Slight	Nh	
11105	none	//A	<u> </u>
HI SOUTH O-	hone	Np	
#2 South 1-2'	None	NID	
# 29ast 0-1	none	N.D.	
# 2 Eas+ 1-2	None	ND	

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

Released to Imaging: 6/16/2021 12:53:46 PM

Stockpile = Stockpile #1

**GPS Sample Points, Center of Comp Areas** 



# **Sample Log**

Date:	3/26/21	

Project:	Bagley 7-Inch	

-103.612268 Project Number: 33.310876 Longitude: 13146 Latitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
LIBY.	_	404	
IWI		248	
cw 1	_	496	
ขน ไ		7128	
ow I Wi		Y50	
F1264	-	3 to 100	
FL3@4'		370	
FL4@4'		248	
FLS@U'		404	
FL6@4'		7128	
	-		
		<u> </u>	+
			<del></del>
			<del></del>
			+
			<u> </u>
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Ar



# **Soil Profile**

Environmental & Safety Solution				Date:	11-1	3
	Bagley 7-Inch					
Project Number:	13146	Latitude:	33.310876	Longitude:_		-103.612268
Depth (ft. bgs)  1	THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE		Desc Shit tops of Orock K-clay min			
10 11 12 13 14						
16 17 18 19						
21 22 23 24 25						
26 27 28 29 30						
31 32 33 34 35						
36 37 38 39						
40	Angle American color of Local and			A TRUMPING TO SEAL OF BEST STORES	тынкардиянанын (улсына	

Received by OCD: 5/4/2021 12:37:49 PM

# Appendix C Laboratory Analytical Reports



# Certificate of Analysis Summary 673890

#### Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bagley 7"

**Project Id:** 

**Project Location:** 

**Contact:** 

13146

**Brandon Smitherman** 

Lea County, NM

**Date Received in Lab:** Wed 09.30.2020 09:35

**Report Date:** 10.05.2020 13:02

Project Manager: Jessica Kramer

	Lab Id:	673890-0	001	673890-0	02	673890-0	003	673890-0	004	673890-0	005	673890-0	006
Analysis Requested  Field Id		V1@3	·	V1@4' NH1@SURF		RF	NH1@2'		EH1@SURF		EH1@2'		
Anaiysis Requesteu	Depth:	3- ft		4- ft				2- ft				2- ft	
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL	,	SOIL		SOIL	
	Sampled:	09.29.2020	14:05	09.29.2020	14:10	09.29.2020	14:20	09.29.2020	14:25	09.29.2020	14:30	09.29.2020	14:35
BTEX by EPA 8021B	Extracted:	10.01.2020	10.01.2020 17:00		17:00	10.02.2020	09:00	10.02.2020	09:00	10.02.2020	09:00	10.02.2020	09:00
SUB: T104704400-20-21	Analyzed:	10.01.2020	10.01.2020 20:28		20:49	10.02.2020	17:16	10.02.2020	17:37	10.02.2020	17:57	10.02.2020	18:18
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.129			0.0397	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00198	0.00198
Toluene		3.90	3.90 0.0402		0.198	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00198	0.00198
Ethylbenzene		4.05	4.05 0.0402		0.198	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00198	0.00198
m,p-Xylenes		2.92	0.0803	70.5 D	0.397	< 0.00398	0.00398	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00397	0.00397
o-Xylene		0.827	0.0402	22.7 D	0.198	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00198	0.00198
Total Xylenes		3.75	0.0402	93.2	0.198	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00198	0.00198
Total BTEX		11.8	0.0402	135	0.0397	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00198	0.00198
Inorganic Anions by EPA 300	Extracted:	10.01.2020	16:15	10.01.2020 16:15		10.01.2020 16:15		10.01.2020	16:15	10.01.2020 16:15		10.01.2020 16:15	
SUB: T104704400-20-21	Analyzed:	10.02.2020	16:44	10.02.2020	16:49	10.02.2020	16:54	10.02.2020 16:59		10.02.2020	17:15	10.02.2020	17:21
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		358	4.98	416	5.00	13.6	5.02	14.8	4.96	56.6	5.05	1520	24.9
TPH by SW8015 Mod	Extracted:	10.01.2020	11:15	10.01.2020	11:15	10.01.2020	11:15	10.01.2020	11:15	10.01.2020	11:15	10.01.2020	11:15
SUB: T104704400-20-21	Analyzed:	10.01.2020	15:33	10.01.2020	15:55	10.01.2020	16:17	10.01.2020	16:39	10.01.2020	17:01	10.01.2020	17:23
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		749	50.0	4800	49.9	< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0
Diesel Range Organics (DRO)		605	50.0	1360	49.9	60.8	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	94.6	49.9	< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0
Total TPH		1350	50.0	6250	49.9	60.8	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0

BRL - Below Reporting Limit

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

Jessica Vramer



# Certificate of Analysis Summary 673890

#### Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bagley 7"

**Project Id: Contact:** 

**Project Location:** 

13146

**Brandon Smitherman** 

Lea County, NM

**Date Received in Lab:** Wed 09.30.2020 09:35

**Report Date:** 10.05.2020 13:02

Project Manager: Jessica Kramer

	Lab Id:	673890-0	07	673890-00	08	673890-0	09	673890-0	010		
Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Inorganic Anions by EPA 300 SUB: T104704400-20-21  Chloride TPH by SW8015 Mod SUB: T104704400-20-21	Field Id:	SH1@SU	RF	SH1@2		WH1@SU	RF	WH1@2	2'		
	Depth:			2- ft	2- ft						
	Matrix:	SOIL		SOIL		SOIL		SOIL	,		
	Sampled:	09.29.2020	14:40	09.29.2020 1	14:45	09.29.2020	14:55	09.29.2020	15:00		
BTEX by EPA 8021B	Extracted:	10.02.2020 09:00		10.02.2020 0	09:00	10.02.2020	09:00	10.02.2020	09:00		
SUB: T104704400-20-21	Analyzed:	10.02.2020	18:38	10.02.2020 1	18:59	10.02.2020	19:19	10.02.2020	19:40		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00198	0.00198	<0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Toluene		< 0.00198			0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Ethylbenzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
m,p-Xylenes		< 0.00396	0.00396	< 0.00400	0.00400	< 0.00401	0.00401	< 0.00398	0.00398		
o-Xylene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Total Xylenes		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Total BTEX		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
,	Extracted:	10.01.2020	16:15	10.01.2020 16:15		10.01.2020	16:15	10.01.2020	16:15		
SUB: T104704400-20-21	Analyzed:	10.02.2020	17:26	10.02.2020 1	17:31	10.02.2020 17:37		10.02.2020 17:42			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		12.3	4.99	1450	25.2	12.6	5.00	11.8 X	4.96		
TPH by SW8015 Mod	Extracted:	10.01.2020	11:15	10.01.2020 1	11:15	10.01.2020	11:15	10.01.2020	11:15		
SUB: T104704400-20-21	Analyzed:	10.01.2020	18:07	10.01.2020 1	18:29	10.01.2020	18:51	10.01.2020	19:12		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		
Diesel Range Organics (DRO)		< 50.0	2.2020 17:26 10.0 g/kg RL m 12.3 4.99 1.2020 11:15 10.0 1.2020 18:07 10.0 g/kg RL m <50.0 50.0 <50.0 50.0 <50.0 50.0		49.9	<49.8	49.8	< 50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		
Total TPH		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		

BRL - Below Reporting Limit

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

Jessica Weamer



# **Analytical Report 673890**

for

# **Etech Environmental & Safety Solution, Inc**

**Project Manager: Brandon Smitherman** 

Bagley 7" 13146 10.05.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



10.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 673890

Bagley 7"

Project Address: Lea County, NM

#### **Brandon Smitherman:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673890. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673890 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

# Sample Cross Reference 673890



# Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
V1@3'	S	09.29.2020 14:05	3 ft	673890-001
V1@4'	S	09.29.2020 14:10	4 ft	673890-002
NH1@SURF	S	09.29.2020 14:20	N/A	673890-003
NH1@2'	S	09.29.2020 14:25	2 ft	673890-004
EH1@SURF	S	09.29.2020 14:30	N/A	673890-005
EH1@2'	S	09.29.2020 14:35	2 ft	673890-006
SH1@SURF	S	09.29.2020 14:40	N/A	673890-007
SH1@2'	S	09.29.2020 14:45	2 ft	673890-008
WH1@SURF	S	09.29.2020 14:55	N/A	673890-009
WH1@2'	S	09.29.2020 15:00	2 ft	673890-010

#### Page 45 of 186

#### **CASE NARRATIVE**

eurofins Environment Testing

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Bagley 7"

 Project ID:
 13146
 Report Date:
 10.05.2020

 Work Order Number(s):
 673890
 Date Received:
 09.30.2020

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

#### **Analytical non conformances and comments:**

Batch: LBA-3138612 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 673890-002.

Batch: LBA-3138679 Inorganic Anions by EPA 300

Lab Sample ID 674012-041 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673890-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Soil

Sample Id: V1@3' Matrix:

Date Received:09.30.2020 09:35

Date Collected: 09.29.2020 14:05

Sample Depth: 3 ft

Prep Method: E300P

Analytical Method: Inorganic Anions by EPA 300

% Moisture:

CHE Tech:

Analyst:

CHE

Date Prep: 10.01.2020 16:15 Basis: Wet Weight

Seq Number: 3138679

Lab Sample Id: 673890-001

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	358	4.98	mg/kg	10.02.2020 16:44		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

70-130

DVM Tech:

o-Terphenyl

Analyst:

ARM

10.01.2020 11:15 Date Prep:

Basis: Wet Weight SUB: T104704400-20-21

10.01.2020 15:33

Seq Number: 3138683

Parameter	Cas Number	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	749	50.0		mg/kg	10.01.2020 15:33		1
Diesel Range Organics (DRO)	C10C28DRO	605	50.0		mg/kg	10.01.2020 15:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.01.2020 15:33	U	1
Total TPH	PHC635	1350	50.0		mg/kg	10.01.2020 15:33		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-130	10.01.2020 15:33		

102

84-15-1



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: V1@3' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-001 Date Collected: 09.29.2020 14:05 Sample Depth: 3 ft

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

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 10.01.2020 17:00 Basis: Wet Weight

Seq Number: 3138612 SUB: T104704400-20-21

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.129	0.0402		mg/kg	10.01.2020 20:28		20
Toluene	108-88-3	3.90	0.0402		mg/kg	10.01.2020 20:28		20
Ethylbenzene	100-41-4	4.05	0.0402		mg/kg	10.01.2020 20:28		20
m,p-Xylenes	179601-23-1	2.92	0.0803		mg/kg	10.01.2020 20:28		20
o-Xylene	95-47-6	0.827	0.0402		mg/kg	10.01.2020 20:28		20
Total Xylenes	1330-20-7	3.75	0.0402		mg/kg	10.01.2020 20:28		20
Total BTEX		11.8	0.0402		mg/kg	10.01.2020 20:28		20
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	10.01.2020 20:28		
4-Bromofluorobenzene		460-00-4	127	%	70-130	10.01.2020 20:28		



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: V1@4'

Matrix: Soil

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-002

Date Collected: 09.29.2020 14:10

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

Analyst:

CHE

Date Prep: 10.01.2020 16:15

% Moisture:
Basis: Wet Weight

Seq Number: 3138679

SUB: T104704400-20-21

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 416
 5.00
 mg/kg
 10.02.2020 16:49
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM Seq Number: 3138683 Date Prep: 10.01.2020 11:15

Basis: Wet Weight

Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
PHC610	4800	49.9		mg/kg	10.01.2020 15:55		1
C10C28DRO	1360	49.9		mg/kg	10.01.2020 15:55		1
PHCG2835	94.6	49.9		mg/kg	10.01.2020 15:55		1
PHC635	6250	49.9		mg/kg	10.01.2020 15:55		1
(	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1	111-85-3	116	%	70-130	10.01.2020 15:55		
{	84-15-1	116	%	70-130	10.01.2020 15:55		
	PHC610 C10C28DRO PHCG2835 PHC635	PHC610 4800 C10C28DRO 1360 PHCG2835 94.6	PHC610 4800 49.9 C10C28DRO 1360 49.9 PHCG2835 94.6 49.9 PHC635 6250 49.9  Cas Number % Recovery 111-85-3 116	PHC610 4800 49.9 C10C28DRO 1360 49.9 PHCG2835 94.6 49.9 PHC635 6250 49.9  Cas Number % Recovery Units 111-85-3 116 %	PHC610         4800         49.9         mg/kg           C10C28DRO         1360         49.9         mg/kg           PHCG2835         94.6         49.9         mg/kg           PHC635         6250         49.9         mg/kg           Cas Number         % Recovery         Units         Limits           111-85-3         116         %         70-130	PHC610         4800         49.9         mg/kg         10.01.2020 15:55           C10C28DRO         1360         49.9         mg/kg         10.01.2020 15:55           PHCG2835         94.6         49.9         mg/kg         10.01.2020 15:55           PHC635         6250         49.9         mg/kg         10.01.2020 15:55           Cas Number         % Recovery         Units         Limits         Analysis Date           111-85-3         116         %         70-130         10.01.2020 15:55	PHC610         4800         49.9         mg/kg         10.01.2020 15:55           C10C28DRO         1360         49.9         mg/kg         10.01.2020 15:55           PHCG2835         94.6         49.9         mg/kg         10.01.2020 15:55           PHC635         6250         49.9         mg/kg         10.01.2020 15:55           Cas Number         % Recovery         Units         Limits         Analysis Date         Flag           111-85-3         116         %         70-130         10.01.2020 15:55



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: V1@4' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-002

Date Collected: 09.29.2020 14:10

Sample Depth: 4 ft

% Moisture:

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst:

KTL

Date Prep: 10.01.2020 17:00 Basis: Wet Weight

Seq Number: 3138612

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.37	0.0397		mg/kg	10.01.2020 20:49		20
Toluene	108-88-3	21.4	0.198		mg/kg	10.02.2020 12:50	D	100
Ethylbenzene	100-41-4	18.7	0.198		mg/kg	10.02.2020 12:50	D	100
m,p-Xylenes	179601-23-1	70.5	0.397		mg/kg	10.02.2020 12:50	D	100
o-Xylene	95-47-6	22.7	0.198		mg/kg	10.02.2020 12:50	D	100
Total Xylenes	1330-20-7	93.2	0.198		mg/kg	10.02.2020 12:50		100
Total BTEX		135	0.0397		mg/kg	10.02.2020 12:50		100
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Bromofluorobenzene	1	60-00-4	383	0%	70-130	10.01.2020.20:49	**	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	383	%	70-130	10.01.2020 20:49	**
1,4-Difluorobenzene	540-36-3	91	%	70-130	10.01.2020 20:49	



# Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: NH1@SURF Matrix:

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-003

Soil Date Collected: 09.29.2020 14:20

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep: 10.01.2020 16:15

Basis: Wet Weight SUB: T104704400-20-21

Seq Number: 3138679

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.6	5.02	mg/kg	10.02.2020 16:54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

10.01.2020 11:15 Date Prep:

Basis: Wet Weight SUB: T104704400-20-21

Seq Number: 3138683

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.01.2020 16:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.8	50.0		mg/kg	10.01.2020 16:17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.01.2020 16:17	U	1
Total TPH	PHC635	60.8	50.0		mg/kg	10.01.2020 16:17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	<b>Analysis Date</b>	Flag
1-Chlorooctane	111-85-3	95	%	70-130	10.01.2020 16:17	
o-Terphenyl	84-15-1	84	%	70-130	10.01.2020 16:17	



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: NH1@SURF

KTL

Matrix: Soil

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-003

Date Collected: 09.29.2020 14:20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

% Moisture:

Tech: KTL

Analyst:

Date Prep: 10.02.2020 09:00

Wet Weight

Seq Number: 3138779

SUB:	T104704400-20-21
BOD.	110-70-20-21

Basis:

Parameter	Cas Number	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.02.2020 17:16	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.02.2020 17:16	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.02.2020 17:16	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.02.2020 17:16	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.02.2020 17:16	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.02.2020 17:16	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.02.2020 17:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	10.02.2020 17:16		
4-Bromofluorobenzene		460-00-4	110	%	70-130	10.02.2020 17:16		



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: NH1@2' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-004

Date Collected: 09.29.2020 14:25

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

CHE

Basis:

% Moisture:

Wet Weight

Seq Number: 3138679

Analyst:

CHE

Date Prep: 10.01.2020 16:15

SUB: T104704400-20-21

Result **Parameter** Cas Number RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 14.8 4.96 mg/kg 10.02.2020 16:59 1

Analytical Method: TPH by SW8015 Mod

ARM

Prep Method: SW8015P

DVM Tech:

Analyst:

10.01.2020 11:15 Date Prep:

% Moisture:

Basis: Wet Weight SUB: T104704400-20-21

Seq Number: 3138683

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.01.2020 16:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.01.2020 16:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.01.2020 16:39	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.01.2020 16:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
1-Chlorooctane	111-85-3	98	%	70-130	10.01.2020 16:39	
o-Terphenyl	84-15-1	88	%	70-130	10.01.2020 16:39	



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: NH1@2' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-004 Date Collected: 09.29.2020 14:25 Sample Depth: 2 ft

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

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 10.02.2020 09:00 Basis: Wet Weight

Seq Number: 3138779 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.02.2020 17:37	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.02.2020 17:37	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.02.2020 17:37	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.02.2020 17:37	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.02.2020 17:37	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.02.2020 17:37	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.02.2020 17:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	10.02.2020 17:37		
4-Bromofluorobenzene		460-00-4	105	%	70-130	10.02.2020 17:37		



# Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: EH1@SURF Matrix:

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-005

Soil Date Collected: 09.29.2020 14:30

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: CHE

% Moisture:

CHE

Date Prep: 10.01.2020 16:15 Basis:

Wet Weight

Seq Number: 3138679

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.6	5.05	mg/kg	10.02.2020 17:15		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM Seq Number: 3138683

10.01.2020 11:15 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.01.2020 17:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.01.2020 17:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.01.2020 17:01	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.01.2020 17:01	U	1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	97	%	70-130	10.01.2020 17:01
o-Terphenyl	84-15-1	84	%	70-130	10.01.2020 17:01



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: EH1@SURF

Matrix: Soil

Date Prep:

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-005

Date Collected: 09.29.2020 14:30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

10.02.2020 09:00

%

70-130

Wet Weight

Analyst: KTL Seq Number: 3138779

1,4-Difluorobenzene

SUB: T104704400-20-21

10.02.2020 17:57

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.02.2020 17:57	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.02.2020 17:57	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.02.2020 17:57	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.02.2020 17:57	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.02.2020 17:57	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.02.2020 17:57	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.02.2020 17:57	U	1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	106	%	70-130	10.02.2020 17:57		

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540-36-3



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: EH1@2'

Matrix: Soil

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-006

Date Collected: 09.29.2020 14:35

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

CHE

Prep Method: E300P % Moisture:

Tech: CHE

Seq Number: 3138679

Analyst:

Date Prep:

10.01.2020 16:15

Basis: Wet Weight

SUB: T104704400-20-21

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 1520
 24.9
 mg/kg
 10.02.2020 17:21
 5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:
Analyst:

DVM ARM

Date Prep: 10.01.2020 11:15

Basis: Wet Weight

% Moisture:

Seq Number: 3138683

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.01.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.01.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.01.2020 17:23	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.01.2020 17:23	U	1
Surrogate	(	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	96	%	70-130	10.01.2020 17:23
o-Terphenyl	84-15-1	89	%	70-130	10.01.2020 17:23



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: EH1@2' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-006 Date Collected: 09.29.2020 14:35 Sample Depth: 2 ft

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

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 10.02.2020 09:00 Basis: Wet Weight

Seq Number: 3138779 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	10.02.2020 18:18	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	10.02.2020 18:18	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	10.02.2020 18:18	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	10.02.2020 18:18	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	10.02.2020 18:18	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	10.02.2020 18:18	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	10.02.2020 18:18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	110	%	70-130	10.02.2020 18:18		
1,4-Difluorobenzene	5	540-36-3	102	%	70-130	10.02.2020 18:18		



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: SH1@SURF Matrix:

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-007

Soil Date Collected: 09.29.2020 14:40

Seq Number: 3138679

Analytical Method: Inorganic Anions by EPA 300

CHE

% Moisture:

CHE Analyst:

Tech:

Date Prep:

10.01.2020 16:15

Basis: Wet Weight

Prep Method: E300P

SUB: T104704400-20-21

Result **Parameter** Cas Number RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 12.3 4.99 mg/kg 10.02.2020 17:26 1

Analytical Method: TPH by SW8015 Mod

DVM Tech:

Seq Number: 3138683

Analyst: ARM

Date Prep:

10.01.2020 11:15

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.01.2020 18:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.01.2020 18:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.01.2020 18:07	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.01.2020 18:07	U	1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: SH1@SURF

KTL

Matrix: Soil

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-007

Date Collected: 09.29.2020 14:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138779

Prep Method: SW5035A

% Moisture:

Tech: KTL

Analyst:

Date Prep:

10.02.2020 09:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Toluene	108-88-3	< 0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	mg/kg	10.02.2020 18:38	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Total BTEX		< 0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 18:38	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.02.2020 18:38	



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: SH1@2' Matrix:

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-008

Soil Date Collected: 09.29.2020 14:45

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

CHE Tech:

Date Prep: 10.01.2020 16:15 % Moisture:

CHE Analyst:

Basis:

70-130

Wet Weight

Seq Number: 3138679

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1450	25.2	mg/kg	10.02.2020 17:31		5

Analytical Method: TPH by SW8015 Mod

ARM

Prep Method: SW8015P

DVM Tech:

Date Prep: 10.01.2020 11:15 % Moisture:

Seq Number: 3138683

o-Terphenyl

Analyst:

Basis: Wet Weight

10.01.2020 18:29

SUB: T104704400-20-21

84-15-1

Parameter	Cas Number	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.01.2020 18:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.01.2020 18:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.01.2020 18:29	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.01.2020 18:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-130	10.01.2020 18:29		

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## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: SH1@2' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-008 Date Collected: 09.29.2020 14:45 Sample Depth: 2 ft

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

Tech: KTL % Moisture:

KTL Analyst: Date Prep: 10.02.2020 09:00 Basis: Wet Weight

Seq Number: 3138779 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.02.2020 18:59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.02.2020 18:59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.02.2020 18:59	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.02.2020 18:59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.02.2020 18:59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.02.2020 18:59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.02.2020 18:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	10.02.2020 18:59		
1,4-Difluorobenzene		540-36-3	100	%	70-130	10.02.2020 18:59		



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: WH1@SURF Matrix:

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-009

Soil Date Collected: 09.29.2020 14:55

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

Seq Number: 3138679

Date Prep:

10.01.2020 16:15

Basis: Wet Weight

SUB: T104704400-20-21

Result **Parameter** Cas Number RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 12.6 5.00 mg/kg 10.02.2020 17:37 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

Analyst:

DVM ARM

10.01.2020 11:15 Date Prep:

% Moisture: Basis:

Seq Number: 3138683

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.01.2020 18:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.01.2020 18:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.01.2020 18:51	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.01.2020 18:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-130	10.01.2020 18:51		
o-Terphenyl		84-15-1	81	%	70-130	10.01.2020 18:51		



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: WH1@SURF

Matrix: Soil

Date Received:09.30.2020 09:35

Lab Sample Id: 673890-009

Date Collected: 09.29.2020 14:55

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138779

Prep Method: SW5035A

Tech:

KTL

% Moisture:

Analyst: KTL

Date Prep:

10.02.2020 09:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	mg/kg	10.02.2020 19:19	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	<b>Analysis Date</b>	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.02.2020 19:19	
1,4-Difluorobenzene	540-36-3	96	%	70-130	10.02.2020 19:19	



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: WH1@2'

Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-010 Date Collected: 09.29.2020 15:00 Sample Depth: 2 ft

Basis:

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

CHE Tech:

Date Prep: 10.01.2020 16:15 % Moisture: Wet Weight

Analyst: Seq Number: 3138679

CHE

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.8	4.96	mg/kg	10.02.2020 17:42	X	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DVM

10.01.2020 11:15 Date Prep:

% Moisture: Basis:

Analyst: ARM Seq Number: 3138683

Tech:

Wet Weight SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	mg/kg	10.01.2020 19:12	U	1	-
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	mg/kg	10.01.2020 19:12	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	mg/kg	10.01.2020 19:12	U	1	
Total TPH	PHC635	< 50.0	50.0	mg/kg	10.01.2020 19:12	U	1	

Surrogate	Cas Number	% Recovery	Units	Limits	<b>Analysis Date</b>	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.01.2020 19:12	
o-Terphenyl	84-15-1	89	%	70-130	10.01.2020 19:12	



## Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: WH1@2' Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-010 Date Collected: 09.29.2020 15:00 Sample Depth: 2 ft

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

Tech: KTL % Moisture:

KTL Analyst: Date Prep: 10.02.2020 09:00 Basis: Wet Weight

Seq Number: 3138779 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.02.2020 19:40	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.02.2020 19:40	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.02.2020 19:40	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.02.2020 19:40	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.02.2020 19:40	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.02.2020 19:40	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.02.2020 19:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	10.02.2020 19:40		
1,4-Difluorobenzene		540-36-3	100	%	70-130	10.02.2020 19:40		



# **Flagging Criteria**

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

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.

#### **QC Summary** 673890



#### **Etech Environmental & Safety Solution, Inc**

Bagley 7"

Analytical Method: Inorganic Anions by EPA 300

3138679 Seq Number:

Matrix: Solid

E300P Prep Method:

mg/kg

Date Prep: 10.01.2020

MB Sample Id:

7712462-1-BLK

LCS Sample Id:

7712462-1-BKS

264

287

LCSD Sample Id: 7712462-1-BSD RPD

Analysis

**Parameter** Chloride

MB Result Amount

< 5.00

11.8

Spike

250

Spike

248

Amount

LCS LCS Result %Rec

265

LCSD LCSD Result %Rec

90-110 106

Limits

Limit 0 20

%RPD

Units Date 10.02.2020 16:17

Flag

Analytical Method: Inorganic Anions by EPA 300

Seq Number:

3138679

Matrix: Soil

106

Prep Method: Date Prep:

20

E300P 10.01.2020

Parent Sample Id:

673890-010

673890-010 S MS Sample Id:

111

MSD Sample Id: 673890-010 SD

**Parameter** 

Seq Number:

Chloride

Parent Result

MS MS Result %Rec

287

MSD MSD %Rec Result

111

Limits %RPD RPD Limit

0

2

Units

Analysis Flag Date

X

Flag

Analytical Method: Inorganic Anions by EPA 300

3138679

Matrix: Soil

Prep Method:

E300P

mg/kg

mg/kg

Date Prep:

10.01.2020

Parent Sample Id:

674012-041

MS Sample Id: Spike MS MS

674012-041 S **MSD** Limite

107

**RPD** %RPD Units

MSD Sample Id: 674012-041 SD

10.02.2020 17:47

**Parameter** Chloride

**Parent** Result Amount 252 13.6

Result %Rec 108 287

MSD Result %Rec 282

90-110

90-110

Limit

20

Analysis Flag Date 10.02.2020 16:33

Analytical Method: TPH by SW8015 Mod Seq Number:

3138683

Matrix: Solid

Prep Method:

SW8015P

MB Sample Id:

7712480-1-BLK

LCS Sample Id: 7712480-1-BKS

Date Prep: 10.01.2020 LCSD Sample Id: 7712480-1-BSD

**Parameter** 

Gasoline Range Hydrocarbons (GRO)

MB Spike Result Amount < 50.0 1000 < 50.0 1000

Result %Rec 951 1040

LCS

LCS LCSD LCSD Result 95 1000

%Rec 100 70-130

Limits

%RPD **RPD** Limit

20

20

Units

Analysis Date

Diesel Range Organics (DRO)

104 LCS

1030

70-130 103

5 1

mg/kg mg/kg

10.01.2020 12:39 10.01.2020 12:39

MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 10.01.2020 12:39 1-Chlorooctane 94 107 106 70-130 % 91 10.01.2020 12:39 o-Terphenyl 96 95 70-130 %

Seq Number:

**Parameter** 

Analytical Method: TPH by SW8015 Mod 3138683

Matrix: Solid

Prep Method:

SW8015P

Date Prep:

10.01.2020

MB Sample Id: 7712480-1-BLK MBResult

Analysis Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

Units

Date 10.01.2020 12:17

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

[D] = 100\*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 \* (C) / [B]

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

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

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

Flag

Flag

## QC Summary 673890

#### **Etech Environmental & Safety Solution, Inc**

Bagley 7"

 Analytical Method:
 TPH by SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3138683
 Matrix:
 Soil
 Date Prep:
 10.01.2020

 Parent Sample Id:
 673912-001
 MS Sample Id:
 673912-001 SD
 MSD Sample Id:
 673912-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD **MSD Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.9 997 882 88 20 10.01.2020 13:44 869 87 70-130 1 mg/kg 10.01.2020 13:44 Diesel Range Organics (DRO) <49.9 997 967 97 994 70-130 3 20 mg/kg 100

MS MS MSD Limits Units Analysis MSD **Surrogate** Flag Flag Date %Rec %Rec 10.01.2020 13:44 1-Chlorooctane 95 96 70-130 % 10.01.2020 13:44 o-Terphenyl 82 85 70-130 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3138612Matrix:SolidDate Prep:10.01.2020MB Sample Id:7712445-1-BLKLCS Sample Id:7712445-1-BKSLCSD Sample Id:7712445-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 10.01.2020 10:13 < 0.00200 0.100 0.103 103 0.103 70-130 0 35 Benzene 103 mg/kg 10.01.2020 10:13 Toluene < 0.00200 0.100 0.111 111 0.106 106 70-130 5 35 mg/kg 10.01.2020 10:13 Ethylbenzene 0.100 0.106 106 0.101 70-130 5 35 < 0.00200 101 mg/kg 10.01.2020 10:13 m,p-Xylenes < 0.00400 0.200 0.218 109 0.207 104 70-130 5 35 mg/kg 10.01.2020 10:13 < 0.00200 0.100 0.105 105 0.100 100 70-130 5 35 o-Xylene mg/kg

Limits MB MB LCS LCS LCSD Units LCSD Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 10.01.2020 10:13 1,4-Difluorobenzene 96 97 98 70-130 % 10.01.2020 10:13 101 70-130 % 4-Bromofluorobenzene 108 96

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3138779Matrix:SolidDate Prep:10.02.2020MB Sample Id:7712585-1-BLKLCS Sample Id:7712585-1-BKSLCSD Sample Id:7712585-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result 10.02.2020 08:58 < 0.00200 0.100 0.113 113 0.104 70-130 8 35 Benzene 104 mg/kg 10.02.2020 08:58 107 35 Toluene < 0.00200 0.100 0.107 0.107 107 70-130 0 mg/kg Ethylbenzene < 0.00200 0.100 0.114 114 0.105 105 70-130 8 35 10.02.2020 08:58 mg/kg 0.235 35 10.02.2020 08:58 m,p-Xylenes < 0.00400 0.200 118 0.215 108 70-130 9 mg/kg < 0.00200 0.100 0.114 114 0.104 70-130 9 35 mg/kg 10.02.2020 08:58 o-Xylene 104

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		100		99		70-130	%	10.02.2020 08:58
4-Bromofluorobenzene	105		103		102		70-130	%	10.02.2020 08:58

## QC Summary 673890

#### **Etech Environmental & Safety Solution, Inc**

Bagley 7"

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

 Seq Number:
 3138612
 Matrix:
 Soil
 Date Prep:
 10.01.2020

 Parent Sample Id:
 674024-001
 MS Sample Id:
 674024-001 S
 MSD Sample Id:
 674024-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0658	66	0.103	102	70-130	44	35	mg/kg	10.01.2020 10:54	XF
Toluene	< 0.00199	0.0996	0.0706	71	0.104	103	70-130	38	35	mg/kg	10.01.2020 10:54	F
Ethylbenzene	< 0.00199	0.0996	0.0628	63	0.101	100	70-130	47	35	mg/kg	10.01.2020 10:54	XF
m,p-Xylenes	< 0.00398	0.199	0.130	65	0.207	103	70-130	46	35	mg/kg	10.01.2020 10:54	XF
o-Xylene	< 0.00199	0.0996	0.0631	63	0.0992	98	70-130	44	35	mg/kg	10.01.2020 10:54	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	10.01.2020 10:54
4-Bromofluorobenzene	110		98		70-130	%	10.01.2020 10:54

Analytical Method: BTEX by EPA 8021B Prep Method:

 Seq Number:
 3138779
 Matrix:
 Soil
 Date Prep:
 10.02.2020

 Parent Sample Id:
 674139-001
 MS Sample Id:
 674139-001 S
 MSD Sample Id:
 674139-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0979	98	0.0984	99	70-130	1	35	mg/kg	10.02.2020 11:27	
Toluene	< 0.00200	0.100	0.0915	92	0.0921	93	70-130	1	35	mg/kg	10.02.2020 11:27	
Ethylbenzene	< 0.00200	0.100	0.0969	97	0.0982	99	70-130	1	35	mg/kg	10.02.2020 11:27	
m,p-Xylenes	< 0.00401	0.200	0.199	100	0.202	102	70-130	1	35	mg/kg	10.02.2020 11:27	
o-Xylene	< 0.00200	0.100	0.0965	97	0.0981	99	70-130	2	35	mg/kg	10.02.2020 11:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		97		70-130	%	10.02.2020 11:27
4-Bromofluorobenzene	98		102		70-130	%	10.02.2020 11:27

SW5035A



# **Environment Testing Xenco**

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order	No:	6-17	890	
			, 0 , 0	

www.xenco.com

Project Manager:	Joel Low	vry				Bill to: (if	different	:)									Work Order Comments								
Company Name:	Etech En	nvironme	ental &	Safety		Compan	y Name	:	Targa	Reso	ırces						Prog	ram: ا	JST/PS	т 📗 т	PRP[	Brow	nfields	RRO	Superfund
Address:	2509 79t	th St. Su	ite B			Address:											State	of Pr	oject:						
City, State ZIP:	Lubbock,	, TX 794	23			City, Sta	te ZIP:										Repo	rting: L	_evel II	Le	vel III	☐ PS	T/UST[]	RRP	Level IV
Phone:	432-894-	-2100			Email:	b.smithe	erman	@etec	henv.	com							Deliv	erables	s: EDE			ADaP	т 🗆 о	ther:	
Project Name:		Bagl	ey 7"		Turn	Around								ANAL	YSIS	REC	UES	Г					Prese	ervative	Codes
Project Number:		131	146		✓ Routine	Rus	ih	Pres. Code														None: NO	DI	Water: H₂O	
Project Location:		Lea Cou	ınty, N	М	Due Date:																		Cool: Cool	M	eOH: Me
Sampler's Name:	Bra	andon S	mither	man	TAT starts th																HCL: HC	HI	NO3: HN		
PO #:					the lab, if red	ceived by 4	:30pm	ē													H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	Na	aOH: Na		
SAMPLE RECEI	PT -	Temp Bla	ınk:	Yes No	Wet Ice:	Yes	NO	Parameters															H <sub>3</sub> PO <sub>4</sub> : HP		
Samples Received In	tact:	(Yes N	No.	Thermomete	r ID:	FR-	4	aran															NaHSO₄: N	ABIS	*.
Cooler Custody Seals	s: Ye	es No	NHA.	Correction F	actor:	7.4	50014	P.			Ext												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : N	aSO <sub>3</sub>	
Sample Custody Sea	ls: Ye	es No	(NA	Temperature	Reading:	15.0			00														Zn Acetate	+NaOH:	Zn
Total Containers:				Corrected Te	emperature:	15.1	*		e E300	8021	difie												NaOH+Asc	orbic Aci	d: SAPC
Sample Iden	tification	N	/latrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride	BTEX 8	TPH Modified												Samı	ole Con	ments
V1 @	3'	S	Soil	9/29/2020	14:05	3'	Grab	1	х	х	х								^	6-	738	90-	-001	Cool	
V1 @	4'	S	Soil	9/29/2020	14:10	4'	Grab	1	х	х	х												-002	Cool	
NH1 @	Surf	S	Soil	9/29/2020	14:20	Surf	Grab	1	х	х	Х												-00>	Cool	
NH1 @	0 2'	s	Soil	9/29/2020	14:25	2'	Grab	1	х	х	Х												-004	Cool	
EH1 @	Surf	s	Soil	9/29/2020	14:30	Surf	Grab	1	х	х	Х												200	Cool	
EH1 @	0 2'	s	Soil	9/29/2020	14:35	2'	Grab	1	х	х	Х												-00%	Cool	
SH1 @	Surf	s	Soil	9/29/2020	14:40	Surf	Grab	1	х	х	х												-a7	Cool	
SH1@	0 2'	s	Soil	9/29/2020	14:45	2'	Grab	1	х	х	х												-028	Cool	
WH1 @	Surf	s	Soil	9/29/2020	14:55	Surf	Grab	1	х	х	х												209	Cool	
WH1 @	2'	S	Soil	9/29/2020	15:00	2'	Grab	1	х	х	Х										~		-010	Cool	
Total 200.7 / 60	10 20	00.8 / 602	20:	8R0	CRA 13PF	M Texa	as 11	Al St	As	Ва В	е В	Cd C	a Cr	Co C	u Fe	Pb	Mg N	1n Mo	Ni k	Se	Ag S	SiO <sub>2</sub> N	la Sr TI S	Sn U V	Zn

Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Ci	r Co Cu Fe Pb Mg Mn Mo Ni K Se Ag	SiO <sub>2</sub> Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co	Cu Pb Mn Mo Ni Se Ag Tl U Hg	: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 5 1			2	10/10	9/3/20935
3			4	9/30/200 9:35	
5			6		

## **Inter-Office Shipment**

IOS Number : **71168** 

Date/Time: 09.30.2020 Created by: Michael J Turner Please send report to: Jessica Kramer

Lab# From: **Lubbock** Delivery Priority: Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: Midland Air Bill No.: E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673890-001	S	V1@3'	09.29.2020 14:05	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-001	S	V1@3'	09.29.2020 14:05	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-001	S	V1@3'	09.29.2020 14:05	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-002	S	V1@4'	09.29.2020 14:10	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-002	S	V1@4'	09.29.2020 14:10	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-002	S	V1@4'	09.29.2020 14:10	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-003	S	NH1@SURF	09.29.2020 14:20	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-003	S	NH1@SURF	09.29.2020 14:20	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-003	S	NH1@SURF	09.29.2020 14:20	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-004	S	NH1@2'	09.29.2020 14:25	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-004	S	NH1@2'	09.29.2020 14:25	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-004	S	NH1@2'	09.29.2020 14:25	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-005	S	EH1@SURF	09.29.2020 14:30	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-005	S	EH1@SURF	09.29.2020 14:30	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-005	S	EH1@SURF	09.29.2020 14:30	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-006	S	EH1@2'	09.29.2020 14:35	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-006	S	EH1@2'	09.29.2020 14:35	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-006	S	EH1@2'	09.29.2020 14:35	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-007	S	SH1@SURF	09.29.2020 14:40	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-007	S	SH1@SURF	09.29.2020 14:40	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-007	S	SH1@SURF	09.29.2020 14:40	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-008	S	SH1@2'	09.29.2020 14:45	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-008	S	SH1@2'	09.29.2020 14:45	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-008	S	SH1@2'	09.29.2020 14:45	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	
673890-009	S	WH1@SURF	09.29.2020 14:55	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	

IOS Number : **71168** 

Date/Time: 09.30.2020 Created by: Michael J Turner Please send report to: Jessica Kramer

Lab# From: **Lubbock** Delivery Priority: Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: Midland Air Bill No.: E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673890-009	S	WH1@SURF	09.29.2020 14:55	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-009	S	WH1@SURF	09.29.2020 14:55	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-010	S	WH1@2'	09.29.2020 15:00	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-010	S	WH1@2'	09.29.2020 15:00	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-010	S	WH1@2'	09.29.2020 15:00	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C35	

#### **Inter Office Shipment or Sample Comments:**

Relinquished By:

Michael J Turner

Date Relinquished: 09.30.2020

Received By:

Allison Johnson

Date Received:

10.01.2020

Cooler Temperature: 5.3

# **Eurofins Xenco, LLC**

# Page 73 of 186

# **Inter Office Report- Sample Receipt Checklist**



Sent To: Midland IOS #: 71168

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

Date: 10.01.2020

Temperature Measuring device used :

Sent By:Michael J TurnerDate Sent:09.30.2020 10.04 AMReceived By:Allison JohnsonDate Received:10.01.2020 10.57 AM

Received By: Allison Johnson	<b>Date Received:</b> 10.01.2020 10.57 A	M		
	Sample Receipt Checklist		Comments	
#1 *Temperature of cooler(s)?		5.3		
#2 *Shipping container in good condition	on?	Yes		
#3 *Samples received with appropriate	e temperature?	Yes		
#4 *Custody Seals intact on shipping of	container/ cooler?	Yes		
#5 *Custody Seals Signed and dated f	or Containers/coolers	Yes		
#6 *IOS present?		Yes		
#7 Any missing/extra samples?		No	r8	
#8 IOS agrees with sample label(s)/ma	atrix?	Yes		
#9 Sample matrix/ properties agree wi	th IOS?	Yes		
#10 Samples in proper container/ bottl	e?	Yes		
#11 Samples properly preserved?		Yes		
#12 Sample container(s) intact?		Yes		
#13 Sufficient sample amount for indic	eated test(s)?	Yes		
#14 All samples received within hold ti	me?	Yes		
* Must be completed for after-hours of NonConformance:	lelivery of samples prior to placing in	the refrige	erator	
Corrective Action Taken:				
	Nonconformance Documentati	on		
Contact:	Contacted by :		Date:	
Checklist reviewed by:	au J	Date: 10.01	1.2020	

Allison Johnson

# **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 09.30.2020 09.35.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 673890

Temperature Measuring device used: IR-4

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		15.1	
#2 *Shipping container in good condition?		N/A	
#3 *Samples received on ice?		No	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		Yes	Xenco Midland
#18 Water VOC samples have zero headsp	ace?	N/A	

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

Analyst: PH Device/Lot#:

Checklist completed by:

Michael J Turner

Checklist reviewed by:

Jessica Kramer

Date: 09.30.2020

Date: 09.30.2020



November 17, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: BAGLEY #2

Enclosed are the results of analyses for samples received by the laboratory on 11/13/20 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/13/2020 Sampling Date: 11/13/2020

Reported: 11/17/2020 Sampling Type: Soil

Project Name: BAGLEY #2 Sampling Condition: Cool & Intact
Project Number: 13146 Sample Received By: Tamara Oldaker

Project Location: TARGA - LEA CO NM

#### Sample ID: #1 SOUTH 0-1' (H003028-01)

Chloride, SM4500Cl-B	mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

#### Sample ID: #2 SOUTH 1-2' (H003028-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

#### Sample ID: #2 EAST 0-1' (H003028-03)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

#### Sample ID: #2 EAST 1-2' (H003028-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/13/2020 Sampling Date: 11/13/2020

Reported: 11/17/2020 Sampling Type: Soil

Project Name: BAGLEY #2 Sampling Condition: Cool & Intact
Project Number: 13146 Sample Received By: Tamara Oldaker

Project Location: TARGA - LEA CO NM

#### Sample ID: V 1 6' (H003028-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2020	ND	2.02	101	2.00	0.864	
Toluene*	< 0.050	0.050	11/14/2020	ND	1.95	97.3	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/14/2020	ND	2.04	102	2.00	1.93	
Total Xylenes*	< 0.150	0.150	11/14/2020	ND	5.83	97.2	6.00	1.98	
Total BTEX	<0.300	0.300	11/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2020	ND	193	96.5	200	10.4	
DRO >C10-C28*	<10.0	10.0	11/16/2020	ND	220	110	200	22.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2020	ND					
Surrogate: 1-Chlorooctane	78.8 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.3 9	% 42.2-15	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Nam	e: Etech Environmental & Safety Solu	tions	, Inc	ž.			8			8/1	L TO						ANA	LYSI	SRE	QUE	ST		
Project Manage	er: Joel Lowry						P.	0.#															
Address: P.	D. Box 301						C	omp	any	4	Tan	ga											
City: Loving	on State: NM	: NM Zip: 88260					A	Attn: Raul Gibson															
Phone #: (57						A	ddre	ss:															
Project #: 13	146 Project Owne	r:	Та	rga			С	ity:							=								
Project Name:	Bagley #2						S	tate:			Zip:		a de	TPH (8015M)	BTEX (8021B)		1						
Project Location	n: Rural Lea County, NM						P	hone	e #:				Chloride	108	8								
Sampler Name	: Spencer Blackwood						F	ax #:					-	H	Ĕ								
FOR LAB USE ONLY		Ι.	Г		TAM	RIX		PR	ESE	RV.	SAMPLII	NG .		F	<u> </u>								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME											
	#1 South 0-1'	G	1		X				Χ		11/13/20		Х										
2	#2 South 1-2'	G	2		Х				X		11/13/20		Х							1			
	#2 East 0-1'	G	3		Х				X		11/13/20		Х							1	-		
	#2 East 1-2'	G	4		Х		4		X	Ш	11/13/20		Х			_	-	-	-	+-	-		
5	V1 6'	G	5		Х		-	1	X		11/13/20			X	Х		-	-	+	+	+-	_	
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		╀	H	$\vdash$	Н		+	+	H	Н			$\vdash$		_	-	+			+	1		
analyses, All claims inchessives inchessives and analyses in no event should address the Relinquished Relinquished	Time: 14551	Re	ed water	ved unless of with ved By	made in less inter hether s	con	g and re ers, loss sam is to	assed u	or los por los por so	S of programme of the control of the	athin 30 days offer offis incurred by o	completion of t lient, its subsidia	esult: ht: S:	□ Ye	es 🗆	No No no	Add'l	Phone Fax #					

FORM-006 Revision 1.0

Received by OCD: 5/4/2021 12:37:49 PM

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-860-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Bagley 7-inch

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: PM List

Authorized for release by: 4/12/2021 2:57:13 PM
John Builes, Project Manager john.builes@eurofinset.com

Designee for

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

Review your project results through

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Released to Imaging: 6/16/2021 12:53:46 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Etech Environmental & Safety Solutions Project/Site: Bagley 7-inch Laboratory Job ID: 880-860-1 SDG: Lea County NM

# **Table of Contents**

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12

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14

**Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

# **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions Job ID: 880-860-1 Project/Site: Bagley 7-inch

SDG: Lea County NM

**Qualifiers** 

		1/	_	
G	U	V	U	А

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
Н	Sample was prepped or analyzed beyond the specified holding time
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
GC Somi \	/OA

#### GC Semi

Qualifier

U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
E	Result exceeded calibration range.

#### **Glossary**

RER

RL **RPD** 

TEF

**TEQ** 

**TNTC** 

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Eurofins Xenco, Midland

4/12/2021

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Job ID: 880-860-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-860-1

#### Receipt

The samples were received on 3/30/2021 1:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

#### **GC VOA**

Method 8021B: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. FL2 @ 6' (880-860-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 880-860-1

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch SDG: Lea County NM

**Client Sample ID: NW1** Lab Sample ID: 880-860-1 Date Collected: 03/25/21 00:00 Matrix: Solid

Date Received: 03/30/21 13:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/05/21 16:11	04/06/21 07:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/05/21 16:11	04/06/21 07:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/05/21 16:11	04/06/21 07:58	1

Method: 8015B MOD NM - To	tal Petroleur	n Hydroca	rbons						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/05/21 01:30	1
Diesel Range Organics (Over C10-C28)	95.2		50.0		mg/Kg		04/03/21 13:41	04/05/21 01:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/05/21 01:30	1
Total TPH	95.2		50.0		mg/Kg		04/03/21 13:41	04/05/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/03/21 13:41	04/05/21 01:30	1
o-Terphenyl	105		70 - 130				04/03/21 13:41	04/05/21 01:30	1

Method: 300.0 - Anions, Ion C	hromatography - Solubl	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4	4.96	mg/Kg			04/07/21 10:12	1

Lab Sample ID: 880-860-2 **Client Sample ID: SW1** Date Collected: 03/25/21 00:00 **Matrix: Solid** Date Received: 03/30/21 13:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/05/21 16:11	04/06/21 08:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/05/21 16:11	04/06/21 08:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/05/21 16:11	04/06/21 08:19	1

Eurofins Xenco, Midland

04/03/21 13:41 04/05/21 01:52

50.0

mg/Kg

<50.0 U

Gasoline Range Organics

(GRO)-C6-C10

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

SDG: Lea County NM

Client Sample ID: SW1 Date Collected: 03/25/21 00:00 Date Received: 03/30/21 13:09

Lab Sample ID: 880-860-2

Matrix: Solid

Job ID: 880-860-1

Method: 8015B MOD NM - Total Petroleum F	lydrocarbons (Continued)
------------------------------------------	--------------------------

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/05/21 01:52	1
<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/05/21 01:52	1
<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/05/21 01:52	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
104		70 - 130				04/03/21 13:41	04/05/21 01:52	1
110		70 - 130				04/03/21 13:41	04/05/21 01:52	1
	<50.0 <50.0 <50.0 <b>%Recovery</b>		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 40.0 4.95 mg/Kg 04/07/21 10:17

Client Sample ID: FL1 @ 4'

Lab Sample ID: 880-860-3 Date Collected: 03/25/21 00:00 **Matrix: Solid** 

Date Received: 03/30/21 13:09

Sample Depth: - 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
Xylenes, Total	< 0.00396	U	0.00396		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/05/21 16:11	04/06/21 08:40	1
Surrogato	º/ Pocovory	Qualifier	Limite				Branarad	Analyzad	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/05/21 16:11 04/06/21 08:40	1
1,4-Difluorobenzene (Surr)	113		70 - 130	04/05/21 16:11 04/06/21 08:40	1

## Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 02:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 02:13	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 02:13	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 130				04/03/21 13:41	04/05/21 02:13	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	106		70 - 130	04/03/21 13:41	04/05/21 02:13	1
L	o-Terphenyl	108		70 - 130	04/03/21 13:41	04/05/21 02:13	1

# Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229	5.05	mg/Kg			04/08/21 21:01	1

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Client Sample ID: FL2 @ 6'

Date Collected: 03/25/21 00:00 Date Received: 03/30/21 13:09

Sample Depth: - 6'

Lab Sample ID: 880-860-4

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.200	UH	0.200		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
Toluene	4.71	H	0.200		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
Ethylbenzene	11.6	Н	0.200		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
m-Xylene & p-Xylene	45.9	Н	0.399		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
o-Xylene	18.9	Н	0.200		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
Xylenes, Total	64.8	Н	0.399		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
Total BTEX	81.1	Н	0.200		mg/Kg		04/05/21 16:11	04/09/21 10:22	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8868	S1+	70 - 130				04/05/21 16:11	04/06/21 09:01	1
1.4-Difluorobenzene (Surr)	2955	S1+	70 - 130				04/05/21 16:11	04/06/21 09:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2090		49.9		mg/Kg		04/03/21 13:41	04/05/21 02:34	1
Diesel Range Organics (Over C10-C28)	794		49.9		mg/Kg		04/03/21 13:41	04/05/21 02:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 02:34	1
Total TPH	2880		49.9		mg/Kg		04/03/21 13:41	04/05/21 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/03/21 13:41	04/05/21 02:34	1
o-Terphenyl	111		70 - 130				04/03/21 13:41	04/05/21 02:34	1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solul	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		5.02		mg/Kg			04/08/21 21:18	1

**Client Sample ID: EW1** Lab Sample ID: 880-860-5 Date Collected: 03/26/21 00:00 Matrix: Solid

Data Pacaiyad: 03/30/21 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
m-Xylene & p-Xylene	<0.00400	U *-	0.00400		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
Xylenes, Total	<0.00400	U *-	0.00400		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
Total BTEX	<0.00200	U *1 *-	0.00200		mg/Kg		04/06/21 11:15	04/06/21 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				04/06/21 11:15	04/06/21 16:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/06/21 11:15	04/06/21 16:26	1
Method: 8015B MOD NM -	Total Petroleur	n Hydroca	rbons						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	51.4		49.8		mg/Kg		04/03/21 13:41	04/05/21 02:55	1

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

SDG: Lea County NM

**Client Sample ID: EW1** Date Collected: 03/26/21 00:00

Date Received: 03/30/21 13:09

Lab Sample ID: 880-860-5

Matrix: Solid

Job ID: 880-860-1

		Method: 8015B MOD NM - Total Petroleum H	lydrocarbons	(Continued	)
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			(						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/03/21 13:41	04/05/21 02:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/03/21 13:41	04/05/21 02:55	1
Total TPH	51.4		49.8		mg/Kg		04/03/21 13:41	04/05/21 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/03/21 13:41	04/05/21 02:55	1
o-Ternhenyl	118		70 130				04/03/21 13:41	04/05/21 02:55	1

Method: 300.0 - Anions	s, Ion Chromatography - Solu	ble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260	5.03	mg/Kg			04/08/21 21:23	1

Lab Sample ID: 880-860-6 **Client Sample ID: WW1** Date Collected: 03/26/21 00:00 Matrix: Solid

Date Received: 03/30/21 13:09

Sample Depth: - 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
m-Xylene & p-Xylene	<0.00396	U *-	0.00396		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
Xylenes, Total	< 0.00396	U *-	0.00396		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
Total BTEX	<0.00198	U *1 *-	0.00198		mg/Kg		04/06/21 11:15	04/06/21 16:46	1
Survey mate	9/ <b>D</b> agayamı	Ovalifian	Limita				Duamanad	Amalumad	Dil 500

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/06/21 11:15 04/06/21 16:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/06/21 11:15 04/06/21 16:46	1

## Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	ı –	04/03/21 13:41	04/05/21 03:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	J	04/03/21 13:41	04/05/21 03:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	I	04/03/21 13:41	04/05/21 03:16	1
Total TPH	<50.0	U	50.0	mg/Kg	1	04/03/21 13:41	04/05/21 03:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	106	70 - 130	04/03/21 13:41 04/05/21 03:16	1
o-Terphenyl	112	70 - 130	04/03/21 13:41 04/05/21 03:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250	5.01	mg/Kg			04/08/21 21:29	1

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Client Sample ID: FL3 @ 4'

Date Collected: 03/26/21 00:00 Date Received: 03/30/21 13:09

Sample Depth: - 4'

Lab Sample ID: 880-860-7

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
m-Xylene & p-Xylene	<0.00396	U *-	0.00396		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
Xylenes, Total	< 0.00396	U *-	0.00396		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
Total BTEX	<0.00198	U *1 *-	0.00198		mg/Kg		04/06/21 11:15	04/06/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/06/21 11:15	04/06/21 17:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/06/21 11:15	04/06/21 17:07	1

Method: 8015B MOD NM - Tot	al Petroleur	n Hydroca	rbons						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 03:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 03:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 03:37	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/03/21 13:41	04/05/21 03:37	1
o-Terphenyl	110		70 - 130				04/03/21 13:41	04/05/21 03:37	1

Method: 300.0 - Anions, Ion Cl	hromatography - Solub	ole					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	528	4.99	mg/Kg			04/08/21 21:34	1

Client Sample ID: FL4 @ 4' Date Collected: 03/26/21 00:00

Date Received: 03/30/21 13:09

Sample Depth: - 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
m-Xylene & p-Xylene	<0.00404	U *-	0.00404		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
Xylenes, Total	<0.00404	U *-	0.00404		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
Total BTEX	<0.00202	U *1 *-	0.00202		mg/Kg		04/06/21 11:15	04/06/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/06/21 11:15	04/06/21 17:27	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/06/21 11:15	04/06/21 17:27	1

Lab Sample ID: 880-860-8

Matrix: Solid

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Client Sample ID: FL4 @ 4'

Date Collected: 03/26/21 00:00 Date Received: 03/30/21 13:09

Sample Depth: - 4'

Lab Sample ID: 880-860-8

**Matrix: Solid** 

Method: 8015B MOD NM - Total Petroleum Hydrocarbons Analyte Result Qualifier Dil Fac RL **MDL** Unit Prepared Analyzed <49.7 U 49.7 04/03/21 13:41 04/05/21 04:19 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 04/03/21 13:41 04/05/21 04:19 <49.7 U 49.7 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) mg/Kg 04/03/21 13:41 04/05/21 04:19 <49.7 U 49.7 Total TPH <49.7 U 49.7 mg/Kg 04/03/21 13:41 04/05/21 04:19 %Recovery Qualifier Surrogate Limits Prepared Dil Fac Analyzed 1-Chlorooctane 109 70 - 130 04/03/21 13:41 04/05/21 04:19 o-Terphenyl 117 70 - 130 04/03/21 13:41 04/05/21 04:19

Method: 300.0 - Anions, Ion Chromatography - Soluble **MDL** Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Chloride 580 4.99 mg/Kg 04/08/21 21:51

Client Sample ID: FL5 @ 4' Lab Sample ID: 880-860-9

Date Collected: 03/26/21 00:00 Date Received: 03/30/21 13:09

Sample Depth: - 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
Xylenes, Total	< 0.00401	U F1	0.00401		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
Total BTEX	<0.00200	U F2 F1	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/07/21 09:26	04/07/21 12:02	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/07/21 09:26	04/07/21 12:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 04:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 04:40	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 13:41	04/05/21 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/03/21 13:41	04/05/21 04:40	1
o-Terphenyl	114		70 - 130				04/03/21 13:41	04/05/21 04:40	1

Method: 300.0 - Anions, Ion C	hromatography - Solub	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	512	4.96	mg/Kg			04/08/21 21:57	1

Eurofins Xenco, Midland

**Matrix: Solid** 

**Matrix: Solid** 

Lab Sample ID: 880-860-10

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Client Sample ID: FL6 @ 4'

Date Collected: 03/26/21 00:00 Date Received: 03/30/21 13:09

Sample Depth: - 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				04/07/21 09:26	04/07/21 12:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/07/21 09:26	04/07/21 12:24	1
Method: 8015B MOD NM -	Total Petroleur	n Hvdroca	rbons						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/03/21 13:41	04/05/21 05:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/03/21 13:41	04/05/21 05:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/03/21 13:41	04/05/21 05:01	1
Total TPH	<49.8	U	49.8		mg/Kg		04/03/21 13:41	04/05/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				04/03/21 13:41	04/05/21 05:01	1
o-Terphenyl	118		70 - 130				04/03/21 13:41	04/05/21 05:01	1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	546		4.97		mg/Kg			04/08/21 22:02	1

# **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Solid Prep Type: Total/NA** 

		BFB1	DFBZ1	nt Surrogate Recov
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-299-A-23-C MS	Matrix Spike	98	97	
820-299-A-23-D MSD	Matrix Spike Duplicate	99	98	
880-860-1	NW1	108	102	
880-860-2	SW1	100	109	
880-860-3	FL1 @ 4'	103	113	
880-860-4	FL2 @ 6'	8868 S1+	2955 S1+	
880-860-5	EW1	118	101	
880-860-6	WW1	117	101	
880-860-7	FL3 @ 4'	112	98	
880-860-8	FL4 @ 4'	114	101	
880-860-9	FL5 @ 4'	115	92	
880-860-9 MS	FL5 @ 4'	91	93	
880-860-9 MSD	FL5 @ 4'	95	107	
880-860-9 MSD	•	93 94	107	
890-472-A-41-D MS	FL6 @ 4' Matrix Spike	137 S1+	85	
890-472-A-41-E MSD		109	100	
690-472-A-41-E MSD LCS 880-1341/1-A	Matrix Spike Duplicate	87	87	
LCS 880-1341/1-A LCS 880-1421/1-A	Lab Control Sample	88	67 104	
	Lab Control Sample			
LCS 880-1480/1-A	Lab Control Sample	104	100	
LCSD 880-1341/2-A	Lab Control Sample Dup	100	86	
LCSD 880-1421/2-A	Lab Control Sample Dup	92	106	
LCSD 880-1480/2-A	Lab Control Sample Dup	104	99	
MB 880-1304/9	Method Blank	117	89	
MB 880-1341/5-A	Method Blank	118	95	
MB 880-1421/5-A	Method Blank	112	94	
MB 880-1480/5-A	Method Blank	108	94	
MB 880-1527/8	Method Blank	105	96	

DFBZ = 1,4-Difluorobenzene (Surr)

# Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Matrix: Solid Prep Type: Total/NA

			Percent Surrog	gate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-860-1	NW1	100	105	
880-860-2	SW1	104	110	
880-860-3	FL1 @ 4'	106	108	
880-860-4	FL2 @ 6'	121	111	
880-860-5	EW1	113	118	
880-860-6	WW1	106	112	
880-860-7	FL3 @ 4'	103	110	
880-860-8	FL4 @ 4'	109	117	
880-860-9	FL5 @ 4'	109	114	
880-860-10	FL6 @ 4'	111	118	
890-448-A-1-D MS	Matrix Spike	113	106	
890-448-A-1-E MSD	Matrix Spike Duplicate	111	105	

# **Surrogate Summary**

Job ID: 880-860-1 Client: Etech Environmental & Safety Solutions Project/Site: Bagley 7-inch SDG: Lea County NM

Method: 8015B MOD NM - Total Petroleum Hydrocarbons (Continued)

Matrix: Solid Prep Type: Total/NA

			Perc	cent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-1283/2-A	Lab Control Sample	121	116	
LCSD 880-1283/3-A	Lab Control Sample Dup	117	113	
MB 880-1283/1-A	Method Blank	100	104	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

**Client Sample ID: Method Blank** 

# Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1304/9

Ma

An

ab Sample ID: MB 880-1304/9	Client Sample ID: Method Blank
latrix: Solid	Prep Type: Total/NA
nalysis Batch: 1304	
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			04/05/21 14:07	1
Toluene	<0.00200	U	0.00200		mg/Kg			04/05/21 14:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			04/05/21 14:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			04/05/21 14:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			04/05/21 14:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			04/05/21 14:07	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			04/05/21 14:07	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130		04/05/21 14:07	1
1,4-Difluorobenzene (Surr)	89		70 - 130		04/05/21 14:07	1

Lab Sample ID: MB 880-1341/5-A

Matrix: Solid								Prep Type: To	otal/NA
Analysis Batch: 1304								Prep Batcl	า: 1341
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Renzene	<0.00200	П	0.00200		ma/Ka		04/05/21 16:11	04/06/21 01:05	

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J –	0.00200		mg/Kg		04/05/21 16:11	04/06/21 01:05	1
Toluene	<0.00200 U	J	0.00200		mg/Kg		04/05/21 16:11	04/06/21 01:05	1
Ethylbenzene	<0.00200 U	J	0.00200		mg/Kg		04/05/21 16:11	04/06/21 01:05	1
m-Xylene & p-Xylene	<0.00400 U	J	0.00400		mg/Kg		04/05/21 16:11	04/06/21 01:05	1
o-Xylene	<0.00200 U	J	0.00200		mg/Kg		04/05/21 16:11	04/06/21 01:05	1
Xylenes, Total	<0.00400 U	J	0.00400		mg/Kg		04/05/21 16:11	04/06/21 01:05	1
Total BTEX	<0.00200 U	J	0.00200		mg/Kg		04/05/21 16:11	04/06/21 01:05	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118	70 - 130	04/05/21 16:11	04/06/21 01:05	1
1,4-Difluorobenzene (Surr)	95	70 - 130	04/05/21 16:11	04/06/21 01:05	1

Lab Sample ID: LCS 880-1341/1-A

**Matrix: Solid** 

**Analysis Batch: 1304** 

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1341

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07564		mg/Kg		76	70 - 130	
Toluene	0.100	0.08525		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.08450		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1724		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08688		mg/Kg		87	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

# QC Sample Results

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-1341/2-A

**Matrix: Solid** 

**Analysis Batch: 1304** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 1341

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene 0.100 0.08118 mg/Kg 81 70 - 130 7 35 Toluene 0.100 0.09331 mg/Kg 93 70 - 130 9 35 Ethylbenzene 0.100 0.09864 mg/Kg 70 - 130 99 15 35 m-Xylene & p-Xylene 0.200 0.1920 mg/Kg 96 70 - 130 11 35 0.100 0.09921 35 o-Xylene mg/Kg gg 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 820-299-A-23-C MS Client Sample ID: Matrix Spike

**Matrix: Solid** Prep Type: Total/NA Prep Batch: 1341 **Analysis Batch: 1304** 

Sample	Sample	Spike	MS	MS				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00202	U	0.0998	0.07774		mg/Kg		77	70 - 130	
<0.00202	U	0.0998	0.09077		mg/Kg		91	70 - 130	
<0.00202	U	0.0998	0.08381		mg/Kg		84	70 - 130	
<0.00404	U	0.200	0.1714		mg/Kg		86	70 - 130	
<0.00202	U	0.0998	0.08518		mg/Kg		85	70 - 130	
	Result <0.00202 <0.00202 <0.00202 <0.00404	Sample Sample Result Qualifier <0.00202 U <0.00202 U <0.00202 U <0.00404 U <0.00202 U	Result         Qualifier         Added           <0.00202	Result         Qualifier         Added         Result           <0.00202	Result         Qualifier         Added         Result         Qualifier           <0.00202	Result         Qualifier         Added         Result         Qualifier         Unit           <0.00202	Result         Qualifier         Added         Result         Qualifier         Unit         D           <0.00202	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec           <0.00202	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           <0.00202

MS MS

Surrogate	%Recovery G	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 820-299-A-23-D MSD

**Matrix: Solid** 

**Analysis Batch: 1304** 

Client Sample ID: Matrix Spike Duplicate

88

Prep Type: Total/NA Prep Batch: 1341

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier D %Rec Limits RPD Limit Analyte Unit <0.00202 U Benzene 0.0990 0.07310 mg/Kg 73 70 - 1306 35 Toluene <0.00202 U 0.0990 0.09074 mg/Kg 92 70 - 130 n 35 Ethylbenzene <0.00202 U 0.0990 0.08356 mg/Kg 84 70 - 130 0 35 m-Xylene & p-Xylene <0.00404 U 0.198 0.1700 mg/Kg 86 70 - 130 35

0.08722

mg/Kg

0.0990

MSD MSD

<0.00202 U

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-1421/5-A

**Matrix: Solid** 

o-Xylene

**Analysis Batch: 1428** 

Client Sample ID: Method Blank

70 - 130

Prep Type: Total/NA

Prep Batch: 1421

35

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 11:43	1

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# **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-1421/5-A

**Matrix: Solid** 

**Analysis Batch: 1428** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** Prep Batch: 1421

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 09:26	04/07/21 11:43	1
o-Xylene	0.002127		0.00200		mg/Kg		04/07/21 09:26	04/07/21 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 09:26	04/07/21 11:43	1
Total BTEX	0.002127		0.00200		mg/Kg		04/07/21 09:26	04/07/21 11:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/07/21 09:26	04/07/21 11:43	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/07/21 09:26	04/07/21 11:43	1

Lab Sample ID: LCS 880-1421/1-A

**Matrix: Solid** 

**Analysis Batch: 1428** 

**Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

Prep Batch: 1421

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits Analyte D %Rec Benzene 0.100 0.07756 mg/Kg 78 70 - 130 Toluene 0.100 70 - 130 0.08327 mg/Kg 83 Ethylbenzene 0.100 0.08557 mg/Kg 86 70 - 130 m-Xylene & p-Xylene 0.200 mg/Kg 85 70 - 130 0.1696 o-Xylene 0.100 0.08357 mg/Kg 84 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-1421/2-A

**Matrix: Solid** 

**Analysis Batch: 1428** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Total/NA** 

Prep Batch: 1421

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07595		mg/Kg		76	70 - 130	2	35
Toluene	0.100	0.08182		mg/Kg		82	70 - 130	2	35
Ethylbenzene	0.100	0.08503		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1683		mg/Kg		84	70 - 130	1	35
o-Xylene	0.100	0.08319		mg/Kg		83	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 880-860-9 MS

**Matrix: Solid** 

**Analysis Batch: 1428** 

Client Sample ID: FL5 @ 4' Prep Type: Total/NA

Prep Batch: 1421

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.0998	0.05527	F1	mg/Kg		54	70 - 130	
Toluene	<0.00200	U	0.0998	0.07073		mg/Kg		71	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0998	0.06916	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1350	F1	mg/Kg		68	70 - 130	

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Prep Batch: 1421

Client Sample ID: FL5 @ 4'

# QC Sample Results

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-860-9 MS Client Sample ID: FL5 @ 4' Prep Type: Total/NA **Matrix: Solid** 

**Analysis Batch: 1428** 

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits o-Xylene < 0.00200 U F1 0.0998 0.06550 F1 mg/Kg 66 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 91 70 - 130 1,4-Difluorobenzene (Surr) 93 70 - 130

Lab Sample ID: 880-860-9 MSD

**Matrix: Solid** 

**Prep Type: Total/NA Analysis Batch: 1428** Prep Batch: 1421 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Analyte D <0.00200 U F2 F1 Benzene 0.0996 0.09566 F2 mg/Kg 95 70 - 130 54 35 Toluene <0.00200 U 0.0996 0.09603 mg/Kg 96 70 - 130 30 35 90 35 Ethylbenzene <0.00200 UF1 0.0996 0.08950 mg/Kg 70 - 130 26 m-Xylene & p-Xylene <0.00401 UF1 0.1802 90 70 - 130 29 35 0.199 mg/Kg

0.08702

mg/Kg

mg/Kg

mg/Kg

87

70 - 130

04/08/21 15:00 04/09/21 02:37

04/08/21 15:00 04/09/21 02:37

**Client Sample ID: Lab Control Sample** 

04/08/21 15:00

0.0996

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 107 70 - 130

<0.00200 UF1

<0.00200 U

<0.00400 U

94

Lab Sample ID: MB 880-1480/5-A

**Matrix: Solid** 

o-Xylene

Xylenes, Total

o-Xylene

**Analysis Batch: 1527** 

MB MB Result Qualifier RL **MDL** Unit D Prepared Dil Fac Analyte Analyzed 0.00200 04/08/21 15:00 04/09/21 02:37 Benzene <0.00200 U mg/Kg 04/09/21 02:37 Toluene <0.00200 U 0.00200 mg/Kg 04/08/21 15:00 Ethylbenzene <0.00200 U 0.00200 mg/Kg 04/08/21 15:00 04/09/21 02:37 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 04/08/21 15:00 04/09/21 02:37

Total BTEX <0.00200 U 0.00200 04/08/21 15:00 04/09/21 02:37 mg/Kg MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 04/08/21 15:00 04/09/21 02:37 108

70 - 130

0.00200

0.00400

Lab Sample ID: LCS 880-1480/1-A

**Matrix: Solid** 

1,4-Difluorobenzene (Surr)

Analysis Batch: 1527						Prep Bate		
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1105		mg/Kg		111	70 - 130	
Toluene	0.100	0.1160		mg/Kg		116	70 - 130	
Ethylbenzene	0.100	0.1180		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2406		mg/Kg		120	70 - 130	
o-Xylene	0.100	0.1190		mg/Kg		119	70 - 130	

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**Prep Type: Total/NA** 

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Client Sample ID: Method Blank Prep Type: Total/NA

04/09/21 02:37

Prep Batch: 1480

28

# QC Sample Results

Client: Etech Environmental & Safety Solutions Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-1480/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 1527** Prep Batch: 1480 Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene 0.100 0.1074 mg/Kg 107 70 - 130 3 35 Toluene 0.100 0.1107 70 - 130 35 mg/Kg 111 5

35 Ethylbenzene 0.100 0.1154 mg/Kg 115 70 - 130 2 m-Xylene & p-Xylene 0.200 0.2366 mg/Kg 118 70 - 130 2 35 35 o-Xylene 0.100 0.1163 mg/Kg 116 70 - 1302

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 104 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 99

Lab Sample ID: 890-472-A-41-D MS **Client Sample ID: Matrix Spike** 

**Matrix: Solid** 

**Analysis Batch: 1527** 

Prep Batch: 1480 Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Benzene <0.00199 U F1 F2 0.100 0.01602 F1 16 70 - 130 mq/Kq Toluene 0.100 70 - 130 < 0.00199 U F1 F2 0.01783 F1 mg/Kg 18 Ethylbenzene <0.00199 UF1F2 0.100 0.02569 F1 mg/Kg 25 70 - 130 0.200 0.05008 F1 25 70 - 130 m-Xylene & p-Xylene <0.00398 UF1F2 mg/Kg o-Xylene <0.00199 UF1F2 0.100 0.03312 F1 mg/Kg 33 70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-472-A-41-E MSD

**Matrix: Solid** 

**Analysis Batch: 1527** 

**Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA** Prep Batch: 1480

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier D %Rec Limits **RPD** Limit Unit Benzene <0.00199 UF1 F2 0.0998 0.05781 F1 F2 58 70 - 130 113 35 mg/Kg 0.0998 70 - 130 Toluene <0.00199 UF1F2 0.05506 F1 F2 mg/Kg 55 102 35 Ethylbenzene <0.00199 U F1 F2 0.0998 0.06012 F1 F2 mg/Kg 60 70 - 130 80 35 0.200 m-Xylene & p-Xylene <0.00398 U F1 F2 0.1204 F1 F2 mg/Kg 60 70 - 13082 35 o-Xylene <0.00199 U F1 F2 0.0998 0.06491 F1 F2 mg/Kg 65 70 - 130 65 35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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Prep Type: Total/NA

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Job ID: 880-860-1

SDG: Lea County NM

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-1527/8

**Matrix: Solid Analysis Batch: 1527**  **Client Sample ID: Method Blank** Prep Type: Total/NA

MB MB

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			04/08/21 16:03	1
Toluene	<0.00200 U	U	0.00200		mg/Kg			04/08/21 16:03	1
Ethylbenzene	<0.00200 U	U	0.00200		mg/Kg			04/08/21 16:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			04/08/21 16:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			04/08/21 16:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			04/08/21 16:03	1
Total BTEX	<0.00200 U	U	0.00200		mg/Kg			04/08/21 16:03	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	70 - 130		04/08/21 16:03	1
1,4-Difluorobenzene (Surr)	96	70 - 130		04/08/21 16:03	1

### Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Lab Sample ID: MB 880-1283/1-A

**Matrix: Solid** 

**Analysis Batch: 1291** 

Client Sample ID: Method Blank **Prep Type: Total/NA** 

Prep Batch: 1283

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	Ū	50.0		mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/04/21 22:41	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 13:41	04/04/21 22:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/03/21 13:41	04/04/21 22:41	1
o-Terphenyl	104		70 - 130	04/03/21 13:41	04/04/21 22:41	1

Lab Sample ID: LCS 880-1283/2-A

**Matrix: Solid** 

**Analysis Batch: 1291** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 1283

, ,, c.c = a.cc=c .								
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1072		mg/Kg	_	107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	
C40 C20)								

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	116		70 - 130

# QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Job ID: 880-860-1 SDG: Lea County NM

# Method: 8015B MOD NM - Total Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 880-1283/3-A

**Matrix: Solid** 

Lab Sample ID: 890-448-A-1-D MS

**Analysis Batch: 1291** 

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 1283

LCSD LCSD Spike %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte Gasoline Range Organics 1000 1076 mg/Kg 108 70 - 130 0 (GRO)-C6-C10 1000 976.6 Diesel Range Organics (Over 98 70 - 130 mg/Kg 5 20

20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

**Client Sample ID: Matrix Spike** 

**Matrix: Solid** 

**Analysis Batch: 1291** 

Prep Type: Total/NA

Prep Batch: 1283

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1159		mg/Kg		111	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1056		mg/Kg		103	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 113 70 - 130 o-Terphenyl 106 70 - 130

Lab Sample ID: 890-448-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

**Analysis Batch: 1291** 

Prep Type: Total/NA Prep Batch: 1283

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1125		mg/Kg		108	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1041		mg/Kg		102	70 - 130	1	20

MSD MSD %Recovery Qualifier Limits 111 70 - 130

Surrogate 1-Chlorooctane 105 70 - 130 o-Terphenyl

# Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1411/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1413** 

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 5.00 04/07/21 09:08 Chloride <5.00 U mg/Kg

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Job ID: 880-860-1 SDG: Lea County NM

Lab Sample ID: LCS 880-1411/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1413** 

Spike LCS LCS %Rec. Added Result Qualifier %Rec Limits Analyte Unit D 250 Chloride 253.8 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-1411/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1413** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 254.7 mg/Kg 102 n

Lab Sample ID: 880-732-A-11-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1413** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits **Analyte** Unit %Rec Chloride 1310 252 1521 E 4 84 90 - 110 mg/Kg

Lab Sample ID: 880-732-A-11-C MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1413** 

Spike MSD MSD **RPD** Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 252 1524 E 4 1310 mg/Kg 85 90 - 110

Lab Sample ID: MB 880-1514/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1552** 

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 04/08/21 20:45 mg/Kg

Lab Sample ID: LCS 880-1514/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1552** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 250 Chloride 255.5 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-1514/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 1552** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte Chloride 250 102 255.9 mg/Kg 90 - 110 0

Lab Sample ID: 880-860-3 MS Client Sample ID: FL1 @ 4' **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 1552** 

Released to Imaging: 6/16/2021 12:53:46 PM

Spike MS MS %Rec. Sample Sample Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 229 253 90 - 110 485.3 mg/Kg 101

# **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-860-3 MSD Client Sample ID: FL1 @ 4' **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 1552** 

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	229		253	469.9		mg/Kg		95	90 - 110	3	20

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

# **GC VOA**

#### **Analysis Batch: 1304**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-1	NW1	Total/NA	Solid	8021B	1341
880-860-2	SW1	Total/NA	Solid	8021B	1341
880-860-3	FL1 @ 4'	Total/NA	Solid	8021B	1341
880-860-4	FL2 @ 6'	Total/NA	Solid	8021B	1341
MB 880-1304/9	Method Blank	Total/NA	Solid	8021B	
MB 880-1341/5-A	Method Blank	Total/NA	Solid	8021B	1341
LCS 880-1341/1-A	Lab Control Sample	Total/NA	Solid	8021B	1341
LCSD 880-1341/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1341
820-299-A-23-C MS	Matrix Spike	Total/NA	Solid	8021B	1341
820-299-A-23-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1341

#### Prep Batch: 1341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-1	NW1	Total/NA	Solid	5035	<u> </u>
880-860-2	SW1	Total/NA	Solid	5035	
880-860-3	FL1 @ 4'	Total/NA	Solid	5035	
880-860-4	FL2 @ 6'	Total/NA	Solid	5035	
MB 880-1341/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1341/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1341/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-299-A-23-C MS	Matrix Spike	Total/NA	Solid	5035	
820-299-A-23-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 1366

<b>Lab Sample ID</b> 880-860-5	Client Sample ID EW1	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
880-860-6	WW1	Total/NA	Solid	5035	
880-860-7	FL3 @ 4'	Total/NA	Solid	5035	
880-860-8	FL4 @ 4'	Total/NA	Solid	5035	

#### **Analysis Batch: 1370**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-860-5	EW1	Total/NA	Solid	8021B	1366	
880-860-6	WW1	Total/NA	Solid	8021B	1366	
880-860-7	FL3 @ 4'	Total/NA	Solid	8021B	1366	
880-860-8	FL4 @ 4'	Total/NA	Solid	8021B	1366	

#### Prep Batch: 1421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-9	FL5 @ 4'	Total/NA	Solid	5035	
880-860-10	FL6 @ 4'	Total/NA	Solid	5035	
MB 880-1421/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1421/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1421/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-860-9 MS	FL5 @ 4'	Total/NA	Solid	5035	
880-860-9 MSD	FL5 @ 4'	Total/NA	Solid	5035	

#### **Analysis Batch: 1428**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-9	FL5 @ 4'	Total/NA	Solid	8021B	1421
880-860-10	FL6 @ 4'	Total/NA	Solid	8021B	1421

Eurofins Xenco, Midland

4/12/2021

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

# **GC VOA (Continued)**

#### **Analysis Batch: 1428 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1421/5-A	Method Blank	Total/NA	Solid	8021B	1421
LCS 880-1421/1-A	Lab Control Sample	Total/NA	Solid	8021B	1421
LCSD 880-1421/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1421
880-860-9 MS	FL5 @ 4'	Total/NA	Solid	8021B	1421
880-860-9 MSD	FL5 @ 4'	Total/NA	Solid	8021B	1421

#### Prep Batch: 1480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1480/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1480/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1480/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-472-A-41-D MS	Matrix Spike	Total/NA	Solid	5035	
890-472-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 1527**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-4	FL2 @ 6'	Total/NA	Solid	8021B	1341
MB 880-1480/5-A	Method Blank	Total/NA	Solid	8021B	1480
MB 880-1527/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-1480/1-A	Lab Control Sample	Total/NA	Solid	8021B	1480
LCSD 880-1480/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1480
890-472-A-41-D MS	Matrix Spike	Total/NA	Solid	8021B	1480
890-472-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1480

#### **GC Semi VOA**

#### Prep Batch: 1283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-1	NW1	Total/NA	Solid	8015NM Prep	
880-860-2	SW1	Total/NA	Solid	8015NM Prep	
380-860-3	FL1 @ 4'	Total/NA	Solid	8015NM Prep	
380-860-4	FL2 @ 6'	Total/NA	Solid	8015NM Prep	
880-860-5	EW1	Total/NA	Solid	8015NM Prep	
880-860-6	WW1	Total/NA	Solid	8015NM Prep	
380-860-7	FL3 @ 4'	Total/NA	Solid	8015NM Prep	
880-860-8	FL4 @ 4'	Total/NA	Solid	8015NM Prep	
380-860-9	FL5 @ 4'	Total/NA	Solid	8015NM Prep	
380-860-10	FL6 @ 4'	Total/NA	Solid	8015NM Prep	
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-448-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-448-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 1291**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-1	NW1	Total/NA	Solid	8015B MOD NM	1283
880-860-2	SW1	Total/NA	Solid	8015B MOD NM	1283
880-860-3	FL1 @ 4'	Total/NA	Solid	8015B MOD NM	1283
880-860-4	FL2 @ 6'	Total/NA	Solid	8015B MOD NM	1283
880-860-5	EW1	Total/NA	Solid	8015B MOD NM	1283

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Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

# GC Semi VOA (Continued)

#### **Analysis Batch: 1291 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-6	WW1	Total/NA	Solid	8015B MOD NM	1283
880-860-7	FL3 @ 4'	Total/NA	Solid	8015B MOD NM	1283
880-860-8	FL4 @ 4'	Total/NA	Solid	8015B MOD NM	1283
880-860-9	FL5 @ 4'	Total/NA	Solid	8015B MOD NM	1283
880-860-10	FL6 @ 4'	Total/NA	Solid	8015B MOD NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B MOD NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B MOD NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B MOD NM	1283
890-448-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B MOD NM	1283
890-448-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B MOD NM	1283

#### **HPLC/IC**

#### Leach Batch: 1411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-1	NW1	Soluble	Solid	DI Leach	
880-860-2	SW1	Soluble	Solid	DI Leach	
MB 880-1411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-732-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-732-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### **Analysis Batch: 1413**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-1	NW1	Soluble	Solid	300.0	1411
880-860-2	SW1	Soluble	Solid	300.0	1411
MB 880-1411/1-A	Method Blank	Soluble	Solid	300.0	1411
LCS 880-1411/2-A	Lab Control Sample	Soluble	Solid	300.0	1411
LCSD 880-1411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1411
880-732-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	1411
880-732-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	1411

#### Leach Batch: 1514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-3	FL1 @ 4'	Soluble	Solid	DI Leach	
880-860-4	FL2 @ 6'	Soluble	Solid	DI Leach	
880-860-5	EW1	Soluble	Solid	DI Leach	
880-860-6	WW1	Soluble	Solid	DI Leach	
880-860-7	FL3 @ 4'	Soluble	Solid	DI Leach	
880-860-8	FL4 @ 4'	Soluble	Solid	DI Leach	
880-860-9	FL5 @ 4'	Soluble	Solid	DI Leach	
880-860-10	FL6 @ 4'	Soluble	Solid	DI Leach	
MB 880-1514/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1514/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1514/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-860-3 MS	FL1 @ 4'	Soluble	Solid	DI Leach	
880-860-3 MSD	FL1 @ 4'	Soluble	Solid	DI Leach	

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

# HPLC/IC

#### **Analysis Batch: 1552**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-860-3	FL1 @ 4'	Soluble	Solid	300.0	1514
880-860-4	FL2 @ 6'	Soluble	Solid	300.0	1514
880-860-5	EW1	Soluble	Solid	300.0	1514
880-860-6	WW1	Soluble	Solid	300.0	1514
880-860-7	FL3 @ 4'	Soluble	Solid	300.0	1514
880-860-8	FL4 @ 4'	Soluble	Solid	300.0	1514
880-860-9	FL5 @ 4'	Soluble	Solid	300.0	1514
880-860-10	FL6 @ 4'	Soluble	Solid	300.0	1514
MB 880-1514/1-A	Method Blank	Soluble	Solid	300.0	1514
LCS 880-1514/2-A	Lab Control Sample	Soluble	Solid	300.0	1514
LCSD 880-1514/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1514
880-860-3 MS	FL1 @ 4'	Soluble	Solid	300.0	1514
880-860-3 MSD	FL1 @ 4'	Soluble	Solid	300.0	1514

Job ID: 880-860-1

SDG: Lea County NM

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Lab Sample ID: 880-860-1

Date Collected: 03/25/21 00:00 Date Received: 03/30/21 13:09

**Client Sample ID: NW1** 

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1341	04/05/21 16:11	MR	XM
Total/NA	Analysis	8021B		1	1304	04/06/21 07:58	MR	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 01:30	AJ	XM
Soluble	Leach	DI Leach			1411	04/06/21 18:49	CH	XM
Soluble	Analysis	300.0		1	1413	04/07/21 10:12	CH	XM

Lab Sample ID: 880-860-2

Date Collected: 03/25/21 00:00 Date Received: 03/30/21 13:09

Client Sample ID: SW1

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		1341	04/05/21 16:11	MR	XM
Total/NA	Analysis	8021B		1	1304	04/06/21 08:19	MR	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 01:52	AJ	XM
Soluble	Leach	DI Leach			1411	04/06/21 18:49	CH	XM
Soluble	Analysis	300.0		1	1413	04/07/21 10:17	CH	XM

Client Sample ID: FL1 @ 4'

8015B MOD NM

DI Leach

300.0

Lab Sample ID: 880-860-3

Matrix: Solid

Date Collected: 03/25/21 00:00 Date Received: 03/30/21 13:09

Batch Batch Dilution Batch **Prepared** Method or Analyzed Analyst **Prep Type** Type **Factor** Number Run Lab Prep Total/NA 5035 04/05/21 16:11 XM Total/NA 8021B 1304 04/06/21 08:40 MR XM Analysis 1 Total/NA Prep 8015NM Prep 1283 04/03/21 13:41 DM XM 1291 04/05/21 02:13 AJ

1

1

Client Sample ID: FL2 @ 6'

Analysis

Analysis

Leach

Total/NA

Soluble

Soluble

Lab Sample ID: 880-860-4

XM

ΧM

XM

1514 04/08/21 11:26 SC

1552 04/08/21 21:01 WP

Matrix: Solid

Date Collected: 03/25/21 00:00 Date Received: 03/30/21 13:09

Released to Imaging: 6/16/2021 12:53:46 PM

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1341	04/05/21 16:11	MR	XM
Total/NA	Analysis	8021B		1	1304	04/06/21 09:01	MR	XM
Total/NA	Prep	5035			1341	04/05/21 16:11	MR	XM
Total/NA	Analysis	8021B		100	1527	04/09/21 10:22	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 02:34	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 21:18	WP	XM

Job ID: 880-860-1

SDG: Lea County NM

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Lab Sample ID: 880-860-5

**Client Sample ID: EW1** Date Collected: 03/26/21 00:00

**Client Sample ID: WW1** 

Matrix: Solid

Date Received: 03/30/21 13:09

Matrix. O

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 16:26	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 02:55	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 21:23	WP	XM

Lab Sample ID: 880-860-6

**Matrix: Solid** 

Date Collected: 03/26/21 00:00 Date Received: 03/30/21 13:09

Batch		Batch	Batch		Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 16:46	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 03:16	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 21:29	WP	XM

Lab Sample ID: 880-860-7 Client Sample ID: FL3 @ 4' Date Collected: 03/26/21 00:00

**Matrix: Solid** 

Date Received: 03/30/21 13:09

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 17:07	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 03:37	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 21:34	WP	XM

Client Sample ID: FL4 @ 4' Lab Sample ID: 880-860-8 Date Collected: 03/26/21 00:00 Matrix: Solid

Date Received: 03/30/21 13:09

Batch		Batch		Dilution Batch		Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 17:27	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 04:19	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 21:51	WP	XM

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

Client Sample ID: FL5 @ 4' Lab Sample ID: 880-860-9

Date Collected: 03/26/21 00:00 **Matrix: Solid** Date Received: 03/30/21 13:09

	Batch Type	Batch		Dilution	Batch	Prepared	Analyst	Lab
Prep Type		Method	Run	Factor	Number	or Analyzed		
Total/NA	Prep	5035			1421	04/07/21 09:26	MR	XM
Total/NA	Analysis	8021B		1	1428	04/07/21 12:02	KL	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 04:40	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 21:57	WP	XM

Client Sample ID: FL6 @ 4' Lab Sample ID: 880-860-10 Date Collected: 03/26/21 00:00 **Matrix: Solid** 

Date Received: 03/30/21 13:09

Prep Type	Batch	Batch		Dilution	Batch	Prepared		
	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1421	04/07/21 09:26	MR	XM
Total/NA	Analysis	8021B		1	1428	04/07/21 12:24	KL	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1291	04/05/21 05:01	AJ	XM
Soluble	Leach	DI Leach			1514	04/08/21 11:26	SC	XM
Soluble	Analysis	300.0		1	1552	04/08/21 22:02	WP	XM

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 880-860-1 Project/Site: Bagley 7-inch SDG: Lea County NM

## **Laboratory: Eurofins Xenco, Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date		
Texas	N	IELAP	T104704400-20-21	06-30-21		
The following analytes the agency does not o		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which		
Analysis Method	Prep Method	Matrix	Analyte			
8015B MOD NM	8015NM Prep	Solid	Total TPH			
8021B	5035	Solid	Total BTEX			

## **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Job ID: 880-860-1 SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B MOD NM	Total Petroleum Hydrocarbons	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch

Job ID: 880-860-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-860-1	NW1	Solid	03/25/21 00:00	03/30/21 13:09
880-860-2	SW1	Solid	03/25/21 00:00	03/30/21 13:09
880-860-3	FL1 @ 4'	Solid	03/25/21 00:00	03/30/21 13:09
880-860-4	FL2 @ 6'	Solid	03/25/21 00:00	03/30/21 13:09
880-860-5	EW1	Solid	03/26/21 00:00	03/30/21 13:09
880-860-6	WW1	Solid	03/26/21 00:00	03/30/21 13:09
880-860-7	FL3 @ 4'	Solid	03/26/21 00:00	03/30/21 13:09
880-860-8	FL4 @ 4'	Solid	03/26/21 00:00	03/30/21 13:09
880-860-9	FL5 @ 4'	Solid	03/26/21 00:00	03/30/21 13:09
880-860-10	FL6 @ 4'	Solid	03/26/21 00:00	03/30/21 13:09

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Work Order No:

4/12/2021

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Released to Imaging: 6/16/2021 12:53:46 PM

Houston Midlan Hobbs



"X (210) 509-3334							
X (806) 794-1296							
(480) 355-0900							
n FL (561) 689-6701							

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PO#:		AND THE RESERVE OF THE PARTY OF	<i></i>			Lese Les															None NO
SAMPLE RECE	resignation of the contract of	emp Blank:	Yes (No)	Wet Ice.	Yes No	SP				1			1			1					NaOH Na
Temperature (°C):	115	4.0		hermometer		ine									l						МеОН Ме
Received Intact:	(Yes	7 .2	Water response to the second s		18	Containe	111111111111111111111111111111111111111	Ext.)	Ì												Zn Acetate+ NaOH Zn
Cooler Custody Sea Sample Custody Sea	CONTRACTOR OF THE PARTY OF THE	No N/A	Correction Fa Total Contain	Tayona apadempa a manamita (p. 17 cm	05	75	(8021)	(Modified	6												TAT starts the day recevied by the lab if received by 4.30pm
Sample Ide	ntification	Matrix	Date Sampled	Time Sampled	Depth	Number	втех (8	TPH (M	CI- (E300)												Sample Comments
DWI	A DOMESTIC OF THE PARTY OF THE	Seil	3/25/21		-	1	X	X	X												And the second s
SWI		Soil	3/25/21			1	X	X	X												
FLI@84'		501	3/25/21		4'	ı	X	X	X												
F1206'		Soil	3/25/2		6'	1	X	X	*												
EWI		Soil	3/26/21		~<	1	X	K	X												
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WW	Du	AN	DVI.			4;	38/	36	34	2	N		<		~~~	10			X		3/30/2

## **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 880-860-1

SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 860 List Number: 1 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-1240-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Bagley 7 inch 13416

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: PM List

MAMER

Authorized for release by: 4/14/2021 6:06:19 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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Client: Etech Environmental & Safety Solutions Project/Site: Bagley 7 inch 13416 Laboratory Job ID: 880-1240-1 SDG: Lea County NM

## **Table of Contents**

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Job ID: 880-1240-1

#### Definitions/Glossary

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416 SDG: Lea County NM

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#### **Qualifiers**

**GC VOA** 

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1

SDG: Lea County NM

Job ID: 880-1240-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-1240-1

#### Receipt

The samples were received on 4/13/2021 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.1°C

#### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 880-1240-1

## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

SDG: Lea County NM

**Client Sample ID: NWB** Lab Sample ID: 880-1240-1

Date Collected: 04/09/21 00:00 Matrix: Solid Date Received: 04/13/21 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
Ethylbenzene	0.00403		0.00202		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
Toluene	0.00373		0.00202		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
Total BTEX	0.0576		0.00202		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
Xylenes, Total	0.0498		0.00403		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
m-Xylene & p-Xylene	0.0142		0.00403		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
o-Xylene	0.0356		0.00202		mg/Kg		04/13/21 13:44	04/14/21 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				04/13/21 13:44	04/14/21 06:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/13/21 13:44	04/14/21 06:30	1
-									
Method: 8015B MOD NM - Total I	<sup>2</sup> etroleum Hydi	rocarbons							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B MOD NM - Total F Analyte Gasoline Range Organics (GRO)-C6-C10			<b>RL</b> 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/13/21 15:30	Analyzed 04/13/21 20:25	Dil Fac
Analyte Gasoline Range Organics	Result			MDL		<u>D</u>	<u>.</u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 84.6		49.9	MDL	mg/Kg	<u>D</u>	04/13/21 15:30	04/13/21 20:25	1 1 1

Surrogate	%Recovery Q	Qualifier Lim	its	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 -	130	04/13/21 15:30	04/13/21 20:25	1
o-Terphenyl	106	70 -	130	04/13/21 15:30	04/13/21 20:25	1

mg/Kg

mg/Kg

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		5.05		mg/Kg			04/14/21 03:20	1

Lab Sample ID: 880-1240-2 **Client Sample ID: EWB** Date Collected: 04/09/21 00:00 **Matrix: Solid** 

Method: 8021B - Volatile Orga	inic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 13:44	04/14/21 06:50	
Ethylbenzene	0.00398		0.00200		mg/Kg		04/13/21 13:44	04/14/21 06:50	1
Toluene	0.00736		0.00200		mg/Kg		04/13/21 13:44	04/14/21 06:50	1
Total BTEX	0.105		0.00200		mg/Kg		04/13/21 13:44	04/14/21 06:50	1
Xylenes, Total	0.0934		0.00401		mg/Kg		04/13/21 13:44	04/14/21 06:50	1
m-Xylene & p-Xylene	0.0486		0.00401		mg/Kg		04/13/21 13:44	04/14/21 06:50	1
o-Xylene	0.0448		0.00200		mg/Kg		04/13/21 13:44	04/14/21 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				04/13/21 13:44	04/14/21 06:50	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/13/21 13:44	04/14/21 06:50	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B MOD NM - Tot	110	rocarbons							
D 11111 - 101	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Midland

04/13/21 20:46

04/13/21 20:46

04/13/21 15:30

04/13/21 15:30

50.0

50.0

70.2

1500

**Gasoline Range Organics** 

(GRO)-C6-C10

**Total TPH** 

## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Lab Sample ID: 880-1240-2

Matrix: Solid

Job ID: 880-1240-1

SDG: Lea County NM

Client	Samp	le	ID:	<b>EWB</b>
				104.00

Date Collected: 04/09/21 00:00 Date Received: 04/13/21 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	1430		50.0		mg/Kg		04/13/21 15:30	04/13/21 20:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/13/21 15:30	04/13/21 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/13/21 15:30	04/13/21 20:46	1
o-Terphenyl	97		70 - 130				04/13/21 15:30	04/13/21 20:46	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	348		5.05		mg/Kg			04/14/21 03:26	1

**Client Sample ID: SWB** 

Date Collected: 04/09/21 00:00 Date Received: 04/13/21 13:00 Lab Sample ID: 880-1240-3

**Matrix: Solid** 

Method: 8021B - Volatile Org	janic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 13:44	04/14/21 07:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 13:44	04/14/21 07:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 13:44	04/14/21 07:11	1
Total BTEX	0.0323		0.00200		mg/Kg		04/13/21 13:44	04/14/21 07:11	1
Xylenes, Total	0.0323		0.00399		mg/Kg		04/13/21 13:44	04/14/21 07:11	1
m-Xylene & p-Xylene	0.0109		0.00399		mg/Kg		04/13/21 13:44	04/14/21 07:11	1
o-Xylene	0.0214		0.00200		mg/Kg		04/13/21 13:44	04/14/21 07:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/13/21 13:44	04/14/21 07:11	1
1,4-Difluorobenzene (Surr)	115		70 - 130	04/13/21 13:44	04/14/21 07:11	1

Method: 8015B MOD N	IM - Total	Petroleum I	Hydrocarbons
---------------------	------------	-------------	--------------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/13/21 15:30	04/14/21 08:51	1
(GRO)-C6-C10									
Total TPH	1910		50.0		mg/Kg		04/13/21 15:30	04/14/21 08:51	1
Diesel Range Organics (Over	1910		50.0		mg/Kg		04/13/21 15:30	04/14/21 08:51	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/13/21 15:30	04/14/21 08:51	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	70 - 130	04/13/21 15:30	04/14/21 08:51	1
o-Terphenyl	92	70 - 130	04/13/21 15:30	04/14/21 08:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	257	5.03	mg/Kg			04/13/21 23:06	1	

## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1 SDG: Lea County NM

Lab Sample ID: 880-1240-4

**Client Sample ID: WWB** 

Date Collected: 04/09/21 00:00 Date Received: 04/13/21 13:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		04/13/21 13:44	04/14/21 07:32	
Ethylbenzene	0.00915		0.00202		mg/Kg		04/13/21 13:44	04/14/21 07:32	
Toluene	<0.00202	U	0.00202		mg/Kg		04/13/21 13:44	04/14/21 07:32	
Total BTEX	0.0921		0.00202		mg/Kg		04/13/21 13:44	04/14/21 07:32	
Xylenes, Total	0.0829		0.00404		mg/Kg		04/13/21 13:44	04/14/21 07:32	
m-Xylene & p-Xylene	0.0514		0.00404		mg/Kg		04/13/21 13:44	04/14/21 07:32	
o-Xylene	0.0315		0.00202		mg/Kg		04/13/21 13:44	04/14/21 07:32	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				04/13/21 13:44	04/14/21 07:32	
1,4-Difluorobenzene (Surr)	109		70 - 130				04/13/21 13:44	04/14/21 07:32	
Method: 8015B MOD NM - Total I	•					_			
: Method: 8015B MOD NM - Total I	Petroleum Hyd	rocarbone							
Analyte	Result	rocarbons Qualifier	RL	MDL		<u>D</u>	Prepared 0.4/12/21 15:20	Analyzed	
Analyte Gasoline Range Organics	•		RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/13/21 15:30	Analyzed 04/13/21 21:28	
Analyte	Result			MDL		<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 128		50.0	MDL	mg/Kg	<u>D</u>	04/13/21 15:30	04/13/21 21:28	
Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH	Result 128 526		50.0	MDL	mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30	04/13/21 21:28	
Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over	Result 128 526	Qualifier	50.0	MDL	mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30	04/13/21 21:28	
Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over C10-C28)	Result 128 526 398	Qualifier U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30 04/13/21 15:30	04/13/21 21:28 04/13/21 21:28 04/13/21 21:28	
Analyte  Gasoline Range Organics (GRO)-C6-C10  Total TPH  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	Result 128 526 398 <50.0	Qualifier U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 04/13/21 15:30	04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 04/13/21 21:28	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 128 526 398 <50.0 %Recovery	Qualifier U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 Prepared	04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result 128 526 398 <50.0  **Recovery 107 111	Qualifier  U  Qualifier	50.0 50.0 50.0 50.0 <b>Limits</b> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 Prepared 04/13/21 15:30	04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 Analyzed 04/13/21 21:28	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result 128 526 398 <50.0  **Recovery 107 111  comatography -	Qualifier  U  Qualifier	50.0 50.0 50.0 50.0 <b>Limits</b> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 04/13/21 15:30 Prepared 04/13/21 15:30	04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 04/13/21 21:28 Analyzed 04/13/21 21:28	Dil Fac

## **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 880-1240-1 Project/Site: Bagley 7 inch 13416 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1240-1	NWB	89	105	
880-1240-2	EWB	90	110	
880-1240-3	SWB	101	115	
880-1240-4	WWB	100	109	
LCS 880-1740/1-A	Lab Control Sample	91	108	
LCSD 880-1740/2-A	Lab Control Sample Dup	90	108	
MB 880-1647/5-A	Method Blank	110	102	
MB 880-1740/5-A	Method Blank	115	100	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ne (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acce
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1240-1	NWB	111	106	
880-1240-2	EWB	113	97	
880-1240-3	SWB	106	92	
880-1240-4	WWB	107	111	
LCS 880-1712/2-A	Lab Control Sample	113	112	
LCSD 880-1712/3-A	Lab Control Sample Dup	108	110	
MB 880-1712/1-A	Method Blank	104	115	

**Surrogate Legend** 

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions

Job ID: 880-1240-1 Project/Site: Bagley 7 inch 13416 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1647/5-A

**Matrix: Solid** 

**Analysis Batch: 1703** 

Client	Sam	ple	ID:	Me	thod	l Bl	ank
		D.		<b>-</b>		- 4 - 1	1/8 I A

Prep Type: Total/NA

Prep Batch: 1647

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/12/21 10:51	04/13/21 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/12/21 10:51	04/13/21 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/12/21 10:51	04/13/21 12:30	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/12/21 10:51	04/13/21 12:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/12/21 10:51	04/13/21 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/12/21 10:51	04/13/21 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/12/21 10:51	04/13/21 12:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/12/21 10:51	04/13/21 12:30	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/12/21 10:51	04/13/21 12:30	1

Lab Sample ID: MB 880-1740/5-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 1703** 

MB MB

			Prep Type: 1	Total/NA	
			Prep Bato	:h: 1740	
Unit	D	Prepared	Analyzed	Dil Fac	i
na/Ka		04/13/21 13:44	04/13/21 23:31	1	

Analyte Result Qualifier RL MDL U Benzene <0.00200 0.00200 0.00200 04/13/21 13:44 04/13/21 23:31 Ethylbenzene <0.00200 U mg/Kg Toluene <0.00200 U 04/13/21 23:31 0.00200 mg/Kg 04/13/21 13:44 Total BTEX <0.00200 U 0.00200 04/13/21 13:44 04/13/21 23:31 mg/Kg Xylenes, Total <0.00400 U 0.00400 04/13/21 13:44 04/13/21 23:31 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 04/13/21 13:44 04/13/21 23:31 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 04/13/21 13:44 04/13/21 23:31

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/13/21 13:44	04/13/21 23:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/13/21 13:44	04/13/21 23:31	1

Lab Sample ID: LCS 880-1740/1-A

**Matrix: Solid** 

**Analysis Batch: 1703** 

Client Sample	ID: Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 1740

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08959		mg/Kg		90	70 - 130	
0.100	0.08896		mg/Kg		89	70 - 130	
0.100	0.09617		mg/Kg		96	70 - 130	
0.200	0.1841		mg/Kg		92	70 - 130	
0.100	0.09472		mg/Kg		95	70 - 130	
	Added 0.100 0.100 0.100 0.200	Added         Result           0.100         0.08959           0.100         0.08896           0.100         0.09617           0.200         0.1841	Added         Result         Qualifier           0.100         0.08959           0.100         0.08896           0.100         0.09617           0.200         0.1841	Added         Result         Qualifier         Unit           0.100         0.08959         mg/Kg           0.100         0.08896         mg/Kg           0.100         0.09617         mg/Kg           0.200         0.1841         mg/Kg	Added         Result         Qualifier         Unit         D           0.100         0.08959         mg/Kg           0.100         0.08896         mg/Kg           0.100         0.09617         mg/Kg           0.200         0.1841         mg/Kg	Added         Result         Qualifier         Unit         D         %Rec           0.100         0.08959         mg/Kg         90           0.100         0.08896         mg/Kg         89           0.100         0.09617         mg/Kg         96           0.200         0.1841         mg/Kg         92	Added         Result         Qualifier         Unit         D         %Rec         Limits           0.100         0.08959         mg/Kg         90         70 - 130           0.100         0.08896         mg/Kg         89         70 - 130           0.100         0.09617         mg/Kg         96         70 - 130           0.200         0.1841         mg/Kg         92         70 - 130

LCS LCS

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

#### QC Sample Results

Client: Etech Environmental & Safety Solutions

Job ID: 880-1240-1 Project/Site: Bagley 7 inch 13416 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-1740/2-A

**Matrix: Solid Analysis Batch: 1703**  Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1740

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08750		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.09152		mg/Kg		92	70 - 130	3	35
Toluene	0.100	0.09704		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130	1	35
o-Xylene	0.100	0.09441		mg/Kg		94	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Lab Sample ID: MB 880-1712/1-A

**Matrix: Solid** 

**Analysis Batch: 1730** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1712

MR MR

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1
(GRO)-C6-C10									
Total TPH	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed Dil Fa	ıc
1-Chlorooctane	104	70 - 130	04/13/21 11:19	1
o-Terphenyl	115	70 - 130	04/13/21 11:19 04/13/21 14:25	1

Lab Sample ID: LCS 880-1712/2-A

Matrix: Solid

**Analysis Batch: 1730** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 1712

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1230 mg/Kg 123 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1185 mg/Kg 118 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	113	70 - 130
o-Terphenyl	112	70 - 130

Lab Sample ID: LCSD 880-1712/3-A

**Matrix: Solid** 

**Analysis Batch: 1730** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 1712

%Rec. RPD

Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1271 mg/Kg 127 70 - 130

(GRO)-C6-C10

### QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Lab Sample ID: LCSD 880-1712/3-A

Job ID: 880-1240-1 SDG: Lea County NM

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Prep Batch: 1712

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits **RPD** Limit Analyte D 1000 1187 mg/Kg 119 70 - 130 20 Diesel Range Organics (Over n

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 1730** 

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 108 70 130 o-Terphenyl 110 70 - 130

Method: 8015B MOD NM - Total Petroleum Hydrocarbons (Continued)

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1738/1-A Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1749** 

мв мв Result Qualifier Analyte RL MDL Analyzed Dil Fac Unit D Prepared Chloride <5.00 U 5.00 04/14/21 00:47 mg/Kg

Lab Sample ID: LCS 880-1738/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 1749** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 236.4 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-1738/3-A

**Matrix: Solid** 

**Analysis Batch: 1749** 

LCSD LCSD RPD Spike %Rec Added Analyte Result Qualifier Unit %Rec Limit Chloride 250 231.4 mg/Kg 93 90 - 110

Lab Sample ID: MB 880-1722/1-A

**Matrix: Solid** 

**Analysis Batch: 1753** 

MB MB

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 04/13/21 21:15 mg/Kg

Lab Sample ID: LCS 880-1722/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble** 

Matrix: Solid

**Analysis Batch: 1753** 

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec Limits 250 Chloride 249.8 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-1722/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 1753** 

LCSD LCSD Spike %Rec. RPD %Rec Limit Analyte Added Result Qualifier RPD Unit D Limits Chloride 250 248.8 100 90 - 110 20 mg/Kg

## **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1 SDG: Lea County NM

#### **GC VOA**

#### Prep Batch: 1647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1647/5-A	Method Blank	Total/NA	Solid	5035	

#### **Analysis Batch: 1703**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-1	NWB	Total/NA	Solid	8021B	1740
880-1240-2	EWB	Total/NA	Solid	8021B	1740
880-1240-3	SWB	Total/NA	Solid	8021B	1740
880-1240-4	WWB	Total/NA	Solid	8021B	1740
MB 880-1647/5-A	Method Blank	Total/NA	Solid	8021B	1647
MB 880-1740/5-A	Method Blank	Total/NA	Solid	8021B	1740
LCS 880-1740/1-A	Lab Control Sample	Total/NA	Solid	8021B	1740
LCSD 880-1740/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1740

#### Prep Batch: 1740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-1	NWB	Total/NA	Solid	5035	
880-1240-2	EWB	Total/NA	Solid	5035	
880-1240-3	SWB	Total/NA	Solid	5035	
880-1240-4	WWB	Total/NA	Solid	5035	
MB 880-1740/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1740/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1740/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### **GC Semi VOA**

#### Prep Batch: 1712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-1	NWB	Total/NA	Solid	8015NM Prep	
880-1240-2	EWB	Total/NA	Solid	8015NM Prep	
880-1240-3	SWB	Total/NA	Solid	8015NM Prep	
880-1240-4	WWB	Total/NA	Solid	8015NM Prep	
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 1730**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-1	NWB	Total/NA	Solid	8015B MOD NM	1712
880-1240-2	EWB	Total/NA	Solid	8015B MOD NM	1712
880-1240-3	SWB	Total/NA	Solid	8015B MOD NM	1712
880-1240-4	WWB	Total/NA	Solid	8015B MOD NM	1712
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015B MOD NM	1712
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015B MOD NM	1712
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B MOD NM	1712

#### HPLC/IC

#### Leach Batch: 1722

Lab Sample ID 880-1240-3	Client Sample ID SWB	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
880-1240-4	WWB	Soluble	Solid	DI Leach	
MB 880-1722/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

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## **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1 SDG: Lea County NM

#### **HPLC/IC** (Continued)

#### Leach Batch: 1722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-1722/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1722/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### Leach Batch: 1738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-1	NWB	Soluble	Solid	DI Leach	
880-1240-2	EWB	Soluble	Solid	DI Leach	
MB 880-1738/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1738/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1738/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### **Analysis Batch: 1749**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-1	NWB	Soluble	Solid	300.0	1738
880-1240-2	EWB	Soluble	Solid	300.0	1738
MB 880-1738/1-A	Method Blank	Soluble	Solid	300.0	1738
LCS 880-1738/2-A	Lab Control Sample	Soluble	Solid	300.0	1738
LCSD 880-1738/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1738

#### Analysis Batch: 1753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1240-3	SWB	Soluble	Solid	300.0	1722
880-1240-4	WWB	Soluble	Solid	300.0	1722
MB 880-1722/1-A	Method Blank	Soluble	Solid	300.0	1722
LCS 880-1722/2-A	Lab Control Sample	Soluble	Solid	300.0	1722
LCSD 880-1722/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1722

#### Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1 SDG: Lea County NM

**Client Sample ID: NWB** 

Lab Sample ID: 880-1240-1

**Matrix: Solid** 

Date Collected: 04/09/21 00:00 Date Received: 04/13/21 13:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1740	04/13/21 13:44	KL	XM
Total/NA	Analysis	8021B		1	1703	04/14/21 06:30	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 15:30	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1730	04/13/21 20:25	AJ	XM
Soluble	Leach	DI Leach			1738	04/13/21 13:43	SC	XM
Soluble	Analysis	300.0		1	1749	04/14/21 03:20	CH	XM

**Client Sample ID: EWB** 

Date Collected: 04/09/21 00:00

Date Received: 04/13/21 13:00

Lab Sample ID: 880-1240-2

**Matrix: Solid** 

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1740 04/13/21 13:44 KL XM Total/NA 8021B 1703 04/14/21 06:50 XMAnalysis 1 KL Total/NA Prep 8015NM Prep ΧM 1712 04/13/21 15:30 DM Total/NA 8015B MOD NM ΧM Analysis 1730 04/13/21 20:46 AJΧM Soluble Leach DI Leach 1738 04/13/21 13:43 SC 1749 Soluble Analysis 300.0 1 04/14/21 03:26 CH XM

**Client Sample ID: SWB** 

Date Collected: 04/09/21 00:00

Date Received: 04/13/21 13:00

Lab Sample ID: 880-1240-3

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1740	04/13/21 13:44	KL	XM
Total/NA	Analysis	8021B		1	1703	04/14/21 07:11	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 15:30	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1730	04/14/21 08:51	AJ	XM
Soluble	Leach	DI Leach			1722	04/13/21 16:50	SC	XM
Soluble	Analysis	300.0		1	1753	04/13/21 23:06	CH	XM

Client Sample ID: WWB

Date Collected: 04/09/21 00:00

Date Received: 04/13/21 13:00

Lab Sample ID: 880-1240-4

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1740	04/13/21 13:44	KL	XM
Total/NA	Analysis	8021B		1	1703	04/14/21 07:32	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 15:30	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1730	04/13/21 21:28	AJ	XM
Soluble	Leach	DI Leach			1722	04/13/21 16:50	SC	XM
Soluble	Analysis	300.0		1	1753	04/13/21 23:12	CH	XM

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 880-1240-1 Project/Site: Bagley 7 inch 13416 SDG: Lea County NM

#### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram	Identification Number	Expiration Date		
		LAP	T104704400-20-21	06-30-21		
The following analytes	are included in this report by	t the leberatory is not cortifi	ad by the acycening outbority. This list ma			
the agency does not of	• '	t the laboratory is not certili	ed by the governing authority. This list ma	ay include analytes for		
0 ,	• '	Matrix	Analyte	ay include analytes for		
the agency does not of	fer certification.	,	, , ,	ay include analytes for		

#### **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1 SDG: Lea County NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846  $\overline{\mathsf{XM}}$ 8015B MOD NM Total Petroleum Hydrocarbons SW846 XM300.0 Anions, Ion Chromatography **MCAWW** XM 5035 Closed System Purge and Trap SW846 XM 8015NM Prep Microextraction SW846 XM DI Leach Deionized Water Leaching Procedure ASTM XM

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

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## Sample Summary

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1240-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1240-1	NWB	Solid	04/09/21 00:00	04/13/21 13:00	
880-1240-2	EWB	Solid	04/09/21 00:00	04/13/21 13:00	
880-1240-3	SWB	Solid	04/09/21 00:00	04/13/21 13:00	
880-1240-4	WWB	Solid	04/09/21 00:00	04/13/21 13:00	

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Page 18 of 19

4/14/2021

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Environment Testing Xenco

880-1240 Chain of Custody	
880-1240 011	

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Work Order No:	1240
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					н					(, ,	988-315	99					www	.xenco	com	Page	of	<u> </u>
Project Manager	Joel Lowry Bill to (if different)												Work Order Comments									
Company Name	ETECH E				Targa			Program: UST/PST PRP Brownfields RRC Superfund					erfund 🗌									
Address	3100 6	lai	lains Husy Address						State of Project:													
City, State ZIP	Covingly			88260	City State ZiP														rel IV			
Phone:	575-39			Email	PMG	let	o he	101	1 (0	m				Deliverables EDD ADaPT Other				her•				
	Busky	7-11		Turn Around			techen v com			IEST						Presen	vative Code					
Project Name	13416	(-()	<u> </u>	Routine	Bersh	Pres.	ANALYSIS REQU			JES1					None NO	TO STORY OF THE PARTY OF THE PA	ter H <sub>2</sub> O					
Project Number			u NM			Code							_	+	+	+	<del>                                     </del>			Cool Cool	MeOH	
Project Location. Sampler's Name	Lea Co	int	y, iom	Due Date	day received by	-														HCL. HC	HNO 3	1
PO #	Chorton Co	1×	7		eived by 4.30pm			-												H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>	NaOH	l
SAMPLE RECEIPT	Temp Bl	ank	Yes (No)	Wet Ice	(Yes No	ters	1												-	H <sub>3</sub> PO <sub>4</sub> HP		{
Samples Received Int		NO.	Thermomete		TPh	Parameters	10	1												NaHSO 4 NA	ABIS	
Cooler Custody Seals		RA)	Correction F		+0.5	ag	2	1												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Na	SO 3	
Sample Custody Seal	s: Yes No	(VA)	Temperatur	e Reading <sup>.</sup>	9.60		3	1	1		1									Zn Acetate+	NaOH Zn	
Total Containers:			Corrected To	emperature ·	10.1		-		12											NaOH+Asco	rbic Acid SAF	PC
Sample Iden	tification	Matrix	Date Sampled	Time Sampled	Depth Grab	,,, 0,	2	100	-											Samp	le Commen	ts
NWB		5	4/9/21		~ (	1	V	K	X					1	1	T			<b> </b>			
EWB		S	49/21		- C	1	X	X	X													
SWB		S	4/9/21		- C	1	TX	X	X													
WWB		2	4/9/21		- C	1	X	14	X													
		]																	<u> </u>			
Total 200.7 / 60	10 200.8/6	020:	8	RCRA 13PF	PM Texas 11	AI St	As	Ba Be	В Сс	Ca C	r Co	Cu I	e Pb N	lg Mn	Mo N	i K Se	e Ag	S <sub>1</sub> O <sub>2</sub>	Na Sı	r Tl Sn U \	/ Zn	
Circle Method(s)	and Metal(s) to	be ana			PLP 6010 8F															1 / 7470 / 74		
Notice: Signature of this do of service. Eurofins Xenco of Eurofins Xenco. A minin	will be liable only for the	cost of sam	ples and shall no	assume any resp	onsibility for any loss	es or expe	nses incu	rred by	the client	if such los	ses are du	ue to cir	cumstances	beyond the	control	iated.						
		T		by (Signatur		T		e/Tim					oy <sup>.</sup> (Signa		T		eived	by <sup>,</sup> (Sig	matur	re)	Date/Tin	e
Relinquished b	) (Signature)	+-	neceived	by (signatur	<i>C)</i>	-	Cal		701	7 2	- /	7	1 In		-	170	H K	1			Hin	7
1 Or Mroot	WY-	14	12mle			14-	1 6	-11	101	1		ari	ell	)	-	M	M	/ _			7117	N
5		+				+-				6					-							12:m
[2				***************************************							***************************************									Revi	sed Date: 08/25/202	0 Rev. 2020.2

## **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 880-1240-1

SDG Number: Lea County NM

Login Number: 1240 List Source: Eurofins Midland

List Number: 1 Creator: Phillips, Kerianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date or time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-1241-1

Laboratory Sample Delivery Group: Rural Lea County

Client Project/Site: Bagley 7 inch 13416

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: PM List

KRAMER

Authorized for release by: 4/14/2021 12:50:14 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

lotal Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/16/2021 12:53:46 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Etech Environmental & Safety Solutions Project/Site: Bagley 7 inch 13416 Laboratory Job ID: 880-1241-1 SDG: Rural Lea County

## **Table of Contents**

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Client Sample Results	5
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QC Sample Results	7
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Lab Chronicle	9
Certification Summary	10
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Sample Summary	12
Chain of Custody	13
Racaint Chacklists	14

4/14/2021

## **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Job ID: 880-1241-1 Project/Site: Bagley 7 inch 13416 SDG: Rural Lea County

#### **Qualifiers**

#### **GC Semi VOA**

Qualifier **Qualifier Description** 

U Indicates the analyte was analyzed for but not detected.

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

MQL

NC

ND NEG

POS

PQL

QC

RER

RL RPD

TEF

TEQ

**TNTC** 

**PRES** 

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1241-1 SDG: Rural Lea County

Job ID: 880-1241-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-1241-1

#### Receipt

The sample was received on 4/13/2021 1:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.1°C

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 880-1241-1 SDG: Rural Lea County

Project/Site: Bagley 7 inch 13416

Lab Sample ID: 880-1241-1

Matrix: Solid

Client	Sample	e ID: F	L2 @ 10'
--------	--------	---------	----------

Date Collected: 04/09/21 00:00 Date Received: 04/13/21 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1640		49.9		mg/Kg		04/13/21 15:30	04/13/21 21:49	1
(GRO)-C6-C10									
Total TPH	3460		49.9		mg/Kg		04/13/21 15:30	04/13/21 21:49	1
Diesel Range Organics (Over	1820		49.9		mg/Kg		04/13/21 15:30	04/13/21 21:49	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/13/21 15:30	04/13/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/13/21 15:30	04/13/21 21:49	1
o-Terphenyl	100		70 - 130				04/13/21 15:30	04/13/21 21:49	1

## **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 880-1241-1 Project/Site: Bagley 7 inch 13416 SDG: Rural Lea County

Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1241-1	FL2 @ 10'	121	100	
LCS 880-1712/2-A	Lab Control Sample	113	112	
LCSD 880-1712/3-A	Lab Control Sample Dup	108	110	
MB 880-1712/1-A	Method Blank	104	115	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

### **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1241-1 SDG: Rural Lea County

### Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Lab Sample ID: MB 880-1712/1-A

**Analysis Batch: 1730** 

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 1712

	IND	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1
(GRO)-C6-C10									
Total TPH	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 14:25	1

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Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04	1/13/21 11:19	04/13/21 14:25	1
o-Terphenyl	115		70 - 130	04	1/13/21 11:19	04/13/21 14:25	1

Lab Sample ID: LCS 880-1712/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

**Analysis Batch: 1730** 

Prep Type: Total/NA Prep Batch: 1712

LCS LCS Spike %Rec. Added Qualifier Analyte Result Unit %Rec Limits Gasoline Range Organics 1000 1230 123 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1185 mg/Kg 118 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-1712/3-A

**Matrix: Solid** 

**Analysis Batch: 1730** 

Client !	Sample	ID: Lah	Control	Sample	Dun
Olielit '	Jailipie	ID. Lab	COLLIG	Jailible	Dub

Prep Type: Total/NA

Prep Batch: 1712

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1271		mg/Kg		127	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1187		mg/Kg		119	70 - 130	0	20
C10-C28)									
	Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Analyte Added Gasoline Range Organics 1000 (GRO)-C6-C10 Diesel Range Organics (Over 1000	Analyte         Added         Result           Gasoline Range Organics         1000         1271           (GRO)-C6-C10         1000         1187           Diesel Range Organics (Over         1000         1187	Analyte         Added Gasoline Range Organics         1000         1271         4 (GRO)-C6-C10         1000         1187         1187	Analyte         Added         Result         Qualifier         Unit           Gasoline Range Organics         1000         1271         mg/Kg           (GRO)-C6-C10         1000         1187         mg/Kg           Diesel Range Organics (Over         1000         1187         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D           Gasoline Range Organics         1000         1271         mg/Kg           (GRO)-C6-C10         1000         1187         mg/Kg           Diesel Range Organics (Over         1000         1187         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D         %Rec           Gasoline Range Organics         1000         1271         mg/Kg         127           (GRO)-C6-C10         1000         1187         mg/Kg         119           Diesel Range Organics (Over         1000         1187         mg/Kg         119	Analyte         Added Gasoline Range Organics         Result (GRO)-C6-C10         Mesult (GRO)-C6-C10         Mesult (GRO) (Over More)         Mesult (GRO) (Description of the context of the co	Analyte         Added         Result         Qualifier         Unit         D         %Rec.         KPD           Gasoline Range Organics         1000         1271         mg/Kg         127         70 - 130         3           (GRO)-C6-C10         Unit         mg/Kg         119         70 - 130         0           Diesel Range Organics (Over         1000         1187         mg/Kg         119         70 - 130         0

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	108	70 - 130
o-Terphenyl	110	70 - 130

## **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1241-1 SDG: Rural Lea County

#### GC Semi VOA

#### Prep Batch: 1712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1241-1	FL2 @ 10'	Total/NA	Solid	8015NM Prep	
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 1730**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1241-1	FL2 @ 10'	Total/NA	Solid	8015B MOD NM	1712
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015B MOD NM	1712
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015B MOD NM	1712
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B MOD NM	1712

#### **Lab Chronicle**

Client: Etech Environmental & Safety Solutions

Job ID: 880-1241-1 Project/Site: Bagley 7 inch 13416 SDG: Rural Lea County

Client Sample ID: FL2 @ 10'

Lab Sample ID: 880-1241-1 Date Collected: 04/09/21 00:00

Matrix: Solid

Date Received: 04/13/21 13:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			1712	04/13/21 15:30	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1730	04/13/21 21:49	AJ	XM

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1241-1 SDG: Rural Lea County

#### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	LAP	T104704400-20-21	06-30-21
,		t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for v
The following analytes a the agency does not off Analysis Method		t the laboratory is not certifi  Matrix	ed by the governing authority. This list ma	ay include analytes for v

## **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1241-1

SDG: Rural Lea County

Method	Method Description	Protocol	Laboratory
8015B MOD NM	Total Petroleum Hydrocarbons	SW846	XM
8015NM Prep	Microextraction	SW846	XM

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7 inch 13416

Job ID: 880-1241-1

SDG: Rural Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1241-1	FL2 @ 10'	Solid	04/09/21 00:00	04/13/21 13:00	

Received by OCD: 5/4/2021 12:37:49 PM

4/14/2021

Work Order No:

# 💸 eurofins

**Environment Testing** Xenco

880-1241 Chain of Custo	dy
000	2.70

375) 392-7550, Carlsbad, NM (575) 988-3199

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Project Manager	Tool 6	cury		Bill to. (if o	different)												Wo	rk Ord	ler Co	mments	
Company Name	Etech e	ruinneme	rdal	Company	Name	15	argl	_						Program. UST/PST PRP Brownfields RRC Superfund							
Address	3100 Pla	ions Huy	,	Address			<b>J</b>							State of Project:							
City State ZIP		on, rms		City State	ZIP								7	Repor	ting L	evel II	Le	evel III	] P:	ST/UST TR	RP Level IV
Phone	575-346	2378	Email	PM	(a) et	ch	enu.	000	Μ					Delive	rables	ED			ADaP	T Oth	er·
Project Name	4 46 23	Less 7-inch	Turn	Around							ANIAIX	/SIS REC		T						Procons	ative Codes
Project Number:	124/1	ag inch	Turing	Rush	Pre					Ť	INAL	1313 KEC	2023						American	None NO	DI Water H <sub>2</sub>
	Keen Run	il la cont	MIZ		Coc	e															-
Project Location Sampler's Name	Mark	( Brages 2	TAT starts the	daurocoino	d by															Cool Cool HCL, HC	MeOH Me HNO <sub>3</sub> HN
PO #	I waste	pimeroc		eived by 4.30																H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>	NaOH Na
SAMPLE RECEIPT	Temp Bl	ank, Yes No	Wet Ice-	(Ves)	AO 출									E-		ļ				H <sub>3</sub> PO <sub>4</sub> HP	
Samples Received Int				ID	Sign of Parameters											-				NaHSO 4 NA	BIS
Cooler Custody Seals	<del></del>	Correction		+0.	5															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaS	
Sample Custody Seal	s Yes No	1(/A) Temperatu	re Reading	9,	W															Zn Acetate+N	
Total Containers.		Corrected	emperature ·	10.		7	-													NaOH+Ascort	oic Acid SAPC
Sample Iden	tification	Matrix Date Sampled	Time Sampled	Depth	Grab/ # c	1 6-	3													Sample	Comments
FL2@10'	***************************************	5 4/9/2	ł.	10'	CI	-	M														
	111111111111111111111111111111111111111																				
															<u></u>						
Total 200.7 / 60	10 200.8 / 6	020: 8	RCRA 13P	РМ Теха	s 11 Al :	sb As	Ba Be	ВСс	l Ca C	r Co	Cu F	e Pb I	Mg	Mn N	10 Ni	K Se	Ag S	SiO <sub>2</sub> N	Na Sr	TI Sn U V	Zn
Cırcle Method(s)	and Metal(s) to	be analyzed	TCLP / S	SPLP 6010	8RCRA	Sb A	s Ba B	e Cd	Cr Co	Cu Pl	b Mr	Mo N	lı Se	Ag T	ri U		Hg 1	631/	245 1	/7470 /747	71
Notice: Signature of this do	ocument and relinquishme	ent of samples constitutes a	valid purchase or	der from client	company to E	urofins X	enco, its aff	iliates and	d subcont	ractors, It	t assigns	standard	terms	and con	ditions						
of service. Eurofins Xenco of Eurofins Xenco. A minim																ted					
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Revised Date: 08/25/2020 Rev 2020.2

## **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 880-1241-1

SDG Number: Rural Lea County

Login Number: 1241 List Source: Eurofins Midland

List Number: 1

Creator: Phillips, Kerianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date or time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-537-1

Laboratory Sample Delivery Group: Rural Lea County NM

Client Project/Site: Bagley 7-inch - 13416

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: PM List

JURAMER

Authorized for release by: 4/19/2021 2:28:34 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/16/2021 12:53:46 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Etech Environmental & Safety Solutions Project/Site: Bagley 7-inch - 13416 Laboratory Job ID: 890-537-1 SDG: Rural Lea County NM

# **Table of Contents**

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## **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Job ID: 890-537-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

**Qualifiers** 

GC Semi VOA

Qualifier **Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**Glossary** 

MCI

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-537-1

SDG: Rural Lea County NM

Job ID: 890-537-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-537-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/15/2021 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 10.6° C.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-537-1 SDG: Rural Lea County NM

**Client Sample ID: EWC** 

Date Collected: 04/15/21 00:00 Date Received: 04/15/21 16:15 Lab Sample ID: 890-537-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		04/16/21 16:28	04/18/21 01:56	1
(GRO)-C6-C10									
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 16:28	04/18/21 01:56	1
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		04/16/21 16:28	04/18/21 01:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 16:28	04/18/21 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/16/21 16:28	04/18/21 01:56	1
o-Terphenyl	121		70 <sub>-</sub> 130				04/16/21 16:28	04/18/21 01:56	1

**Client Sample ID: NWC** Lab Sample ID: 890-537-2

Date Collected: 04/15/21 00:00

Date Received: 04/15/21 16:15

Matrix: Solid

Method: 8015B MOD NM - Total Petroleum Hydrocarbons Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U 49.9 04/16/21 16:28 04/18/21 02:17 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Total TPH <49.9 U 49.9 mg/Kg 04/16/21 16:28 04/18/21 02:17 04/16/21 16:28 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 04/18/21 02:17 C10-C28) <49.9 U 49.9 04/16/21 16:28 04/18/21 02:17 OII Range Organics (Over C28-C36) mg/Kg %Recovery Qualifier Dil Fac Limits Prepared

Surrogate Analyzed 04/18/21 02:17 04/16/21 16:28 1-Chlorooctane 103 70 - 130 o-Terphenyl 110 70 - 130 04/16/21 16:28 04/18/21 02:17

**Client Sample ID: SWC** Date Collected: 04/15/21 00:00

Date Received: 04/15/21 16:15

Lab Sample ID: 890-537-3

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/16/21 16:28	04/18/21 02:38	1
(GRO)-C6-C10									
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 16:28	04/18/21 02:38	1
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/16/21 16:28	04/18/21 02:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 16:28	04/18/21 02:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/16/21 16:28	04/18/21 02:38	1
o-Terphenyl	113		70 - 130				04/16/21 16:28	04/18/21 02:38	1

# **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 890-537-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-537-1	EWC	110	121	
890-537-2	NWC	103	110	
890-537-3	SWC	101	113	
LCS 880-1906/2-A	Lab Control Sample	126	124	
LCSD 880-1906/3-A	Lab Control Sample Dup	121	120	
MB 880-1906/1-A	Method Blank	121	139 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

#### **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 890-537-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

#### Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Lab Sample ID: MB 880-1906/1-A

**Matrix: Solid** 

**Analysis Batch: 1921** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1906

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/16/21 16:28	04/17/21 17:47	1
(GRO)-C6-C10									
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 16:28	04/17/21 17:47	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/16/21 16:28	04/17/21 17:47	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 16:28	04/17/21 17:47	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	04/16/21 16:28	04/17/21 17:47	1
o-Terphenyl	139	S1+	70 - 130	04/16/21 16:28	04/17/21 17:47	1

Lab Sample ID: LCS 880-1906/2-A

**Matrix: Solid** 

**Analysis Batch: 1921** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 1906

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1245 125 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1088 mg/Kg 109 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-1906/3-A

**Matrix: Solid** 

**Analysis Batch: 1921** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1906

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1156		mg/Kg		116	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1048		mg/Kg		105	70 - 130	4	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	121	70 - 130
o-Terphenyl	120	70 - 130

# **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

Job ID: 890-537-1

#### GC Semi VOA

#### Prep Batch: 1906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-537-1	EWC	Total/NA	Solid	8015NM Prep	
890-537-2	NWC	Total/NA	Solid	8015NM Prep	
890-537-3	SWC	Total/NA	Solid	8015NM Prep	
MB 880-1906/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1906/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

# **Analysis Batch: 1921**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-537-1	EWC	Total/NA	Solid	8015B MOD NM	1906
890-537-2	NWC	Total/NA	Solid	8015B MOD NM	1906
890-537-3	SWC	Total/NA	Solid	8015B MOD NM	1906
MB 880-1906/1-A	Method Blank	Total/NA	Solid	8015B MOD NM	1906
LCS 880-1906/2-A	Lab Control Sample	Total/NA	Solid	8015B MOD NM	1906
LCSD 880-1906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B MOD NM	1906

#### Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-537-1 SDG: Rural Lea County NM

Date Collected: 04/15/21 00:00 Date Received: 04/15/21 16:15

**Client Sample ID: EWC** 

Lab Sample ID: 890-537-1

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			1906	04/16/21 16:28	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1921	04/18/21 01:56	AJ	XM

**Client Sample ID: NWC** Lab Sample ID: 890-537-2

Date Collected: 04/15/21 00:00 Date Received: 04/15/21 16:15

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			1906	04/16/21 16:28	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1921	04/18/21 02:17	AJ	XM

**Client Sample ID: SWC** Lab Sample ID: 890-537-3

Date Collected: 04/15/21 00:00 **Matrix: Solid** 

Date Received: 04/15/21 16:15

Released to Imaging: 6/16/2021 12:53:46 PM

Batch Batch Dilution Batch Prepared Method Number **Prep Type** Type Factor or Analyzed Run Analyst Lab Total/NA Prep 8015NM Prep 1906 04/16/21 16:28 DM XMTotal/NA 8015B MOD NM 04/18/21 02:38 Analysis 1921 XM 1 AJ

**Laboratory References:** 

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 890-537-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

#### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date		
Texas	NE	ELAP	T104704400-20-21	06-30-21		
The following analytes	are included in this report, but	t the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v		
• ,	•	t the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v		
the agency does not o	ffer certification.	•	, , ,	ay include analytes for v		
• ,	•	t the laboratory is not certif Matrix	fied by the governing authority. This list ma	ay include analytes for v		

# **Method Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-537-1

SDG: Rural Lea County NM

Method	Method Description	Protocol	Laboratory
8015B MOD NM	Total Petroleum Hydrocarbons	SW846	XM
8015NM Prep	Microextraction	SW846	XM

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-537-1

SDG: Rural Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	As
890-537-1	EWC	Solid	04/15/21 00:00	04/15/21 16:15	
890-537-2	NWC	Solid	04/15/21 00:00	04/15/21 16:15	
890-537-3	SWC	Solid	04/15/21 00:00	04/15/21 16:15	

Notice: signature of this section of the cost of samples and shall not assure any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assure any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of service. Xenco will be make the control of the c

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(Signature)	Received by: (Signature)	Date/Time	Reinquished by: (bignature)	neocived by: (oignature)	Date/Time	7
Relinquished by: (Signature)			2			1
	CR CUT 115211613					
1011			4			-
1			6			-
					Revised Date 022619 Rev 2019.1	

Sampler

# Eurofins Xenco, Carlsbad

Phone 575-988-3199 Fax: 575-988-3199

Client Information (Sub Contract Lab)

1089 N Canal St. Carlsbad NM 88220

# **Chain of Custody Record**

Lab PM

Kramer Jessica



Carrier Tracking No(s).

🐉 eurofins

COC No:

890-171 1

**Environment Testing** America

4/19/2021

Page 14 of 16

Released to Imaging: 6/16/2021 12:53:46 PM

Client Contact:	Phone:			E-Mai						State of Origin New Mexico						Page: Page 1 of 1			
Shipping/Receiving Company	L			jessi		ramer@eurofinset com reditations Required (See note)				New Mexico						Job#:			
Eurofins Xenco								ana, Ni			kas							890-537-1	
Address	Due Date Requeste 4/19/2021	ed				Analysis Requested									Preservation Codes				
1211 W Florida Ave City	TAT Requested (da	ivs).			F 128 F 28		_		Alla	llysia	1	ques	leu			T	- E		M Hexane I None
Midland		.,-,-													İ		dela men	C Zn Acetate C	AsNaO2
State, Zip:						GRO-DRO													Na2O4S Na2SO3
TX, 79701	PO#					8											angaga Bossel	F MeOH F	R Na2S2O3
Phone: 432-704-5440(Tel)	PO#					0											Specifical		H2SO4 - TSP Dodecahydrat
Email	WO #:				<u>2</u>	8016MOD_NM/8016NM_S_Prep (MOD)											odistin	i ice L	Acetone
			***************************************		S 2	5											2		/ MCAA V pH 4-5
Project Name <sup>-</sup> Bagley 7-inch	Project#* 88000010				8	S CO.				- 1							E E	L EDA Z	other (specify)
Site:	SSOW#:					2 ≥											contain	Other:	
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Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=Tiss		Field	804	Z Z											Special Inst	ructions/Note:
		> <	Preservation 0	code:	X							and the second					X		Control of the Contro
EWC (890-537-1)	4/15/21	Mountain	S	olid	П	×											1		
NWC (890-537-2)	4/15/21	Mountain	S	olid	H	7			1	$\top$	$\top$	1					1		
SWC (890-537-3)	4/15/21	Mountain	s	olid	$\sqcap$	١,	1					T				<u> </u>	1		
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Note. Since laboratory accreditations are subject to change Eurofins Xenco LLC	places the ownershi	n of method a	nalyte & accreditation	complia	ance u	non oi	ıt subco	ntract la	borato	ories T	his sa	mple si	niomen	t is for	warded	under d	hain-	of-custody If the labora	tory does not current
maintain accreditation in the State of Origin listed above for analysis/tests/matrix	being analyzed the	samples must	be shipped back to th	e Eurofi	ins Xer	ico LLi	C labora	atory or o	other i	instruct	ions w	II be pr	ovided	Any	changes	to acc	redita	ation status should be bro	ought to Eurofins Xen
LLC attention immediately If all requested accreditations are current to date re-	um the signed Chain	of Custody att	esting to said compli	cance to															
Possible Hazard Identification						Samp					ay be	asse	ssed	if sa	mples	are r	etaiı	ned longer than 1 i	nonth)
Unconfirmed						L_	Retur	n To C	lient			Disp	osal E	By Lai	b	لــا	Arc	hive For	Months
Deliverable Requested                 Other (specify)	Primary Delive	rable Rank	2			Speci	al Inst	ruction	s/QC	Req									
Empty Kit Relinquished by		Date			Tim	е		_					Meth	od of S	Shipmen	ıt:			
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Relinquished by	Date/Time:		Comp	any		R	eceived	by		<del></del>					Date/Ti	me <sup>.</sup>			Company
Custody Seals Intact	1						nnier Te	mperatu	ILU(8)	°C and	Other	Remai	ks						
Δ Yes Δ No						ľ	00/01 10	peratt	, d(a)	Janu	Julio	, willian							
																			Ver: 11/01/2020

# **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 890-537-1

SDG Number: Rural Lea County NM

List Source: Eurofins Carlsbad

Login Number: 537 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

**Eurofins Carlsbad** 

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## **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 890-537-1

SDG Number: Rural Lea County NM

List Source: Eurofins Midland

List Creation: 04/16/21 02:21 PM

Login Number: 537 List Number: 2

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

**Eurofins Carlsbad** 

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<6mm (1/4").

# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-536-1

Laboratory Sample Delivery Group: Rural Lea County NM

Client Project/Site: Bagley 7-inch - 13416

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: PM List

MAMER

Authorized for release by: 4/19/2021 7:00:17 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

\_\_\_



www.eurofinsus.com/Env

Visit us at:

Released to Imaging: 6/16/2021 12:53:46 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Etech Environmental & Safety Solutions Project/Site: Bagley 7-inch - 13416 Laboratory Job ID: 890-536-1 SDG: Rural Lea County NM

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#### **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions

Job ID: 890-536-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

#### **Qualifiers**

#### GC Semi VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

#### **Glossary**

DLC

MCI

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid

CFU Colony Forming Unit **CNF** Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-536-1

SDG: Rural Lea County NM

Job ID: 890-536-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-536-1

#### Receipt

The sample was received on 4/15/2021 4:22 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.6°C

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# **Client Sample Results**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-536-1 SDG: Rural Lea County NM

Client Sample ID: FL 2 @ 13'

Lab Sample ID: 890-536-1

Matrix: Solid

Date Collected: 04/15/21 00:00 Date Received: 04/15/21 16:22

Sample Depth: - 13

Method: 8015B MOD NM - Total I	Petroleum Hyd	rocarbons							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 15:50	1
(GRO)-C6-C10									
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 15:50	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 15:50	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/16/21 16:52	04/19/21 15:50	1
o-Terphenyl	117		70 - 130				04/16/21 16:52	04/19/21 15:50	1

# **Surrogate Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 890-536-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lin
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-536-1	FL 2 @ 13'	113	117	
LCS 880-1907/2-A	Lab Control Sample	108	125	
LCSD 880-1907/3-A	Lab Control Sample Dup	119	105	
MB 880-1907/1-A	Method Blank	117	139 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

# **QC Sample Results**

Client: Etech Environmental & Safety Solutions

Job ID: 890-536-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

Method: 8015B MOD NM - Total Petroleum Hydrocarbons

Lab Sample ID: MB 880-1907/1-A

**Analysis Batch: 1967** 

**Matrix: Solid** 

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 1907

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 12:53	1
(GRO)-C6-C10									
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 12:53	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 12:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 16:52	04/19/21 12:53	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/16/21 16:52	04/19/21 12:53	1
o-Terphenyl	139	S1+	70 - 130	04/16/21 16:52	04/19/21 12:53	1

Lab Sample ID: LCS 880-1907/2-A

Matrix: Solid							Prep 7	Type: Total/NA
Analysis Batch: 1967							Pre	p Batch: 1907
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	960.7		mg/Kg		96	70 - 130	
(GRO)-C6-C10								

1046

mg/Kg

1000

Diesel Range Organics (Over

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-1907/3-A

Matrix: Solid

						Pre	p Batch	1907
Spike	LCSD	LCSD				%Rec.		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1000	1157		mg/Kg		116	70 - 130	19	20
1000	948.8		mg/Kg		95	70 - 130	10	20
	Added	Added Result 1000 1157	Added Result Qualifier 1000 1157	Added Result Qualifier Unit 1000 1157 mg/Kg	Added Result Qualifier Unit D	Added         Result         Qualifier         Unit         D         %Rec           1000         1157         mg/Kg         116	Spike         LCSD         %Rec.           Added         Result         Qualifier         Unit         D         %Rec         Limits           1000         1157         mg/Kg         116         70 - 130	Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           1000         1157         mg/Kg         116         70 - 130         19

C10-C28)

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	105		70 - 130

# **QC Association Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-536-1 SDG: Rural Lea County NM

#### GC Semi VOA

#### Prep Batch: 1907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-536-1	FL 2 @ 13'	Total/NA	Solid	8015NM Prep	
MB 880-1907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 1967**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-536-1	FL 2 @ 13'	Total/NA	Solid	8015B MOD NM	1907
MB 880-1907/1-A	Method Blank	Total/NA	Solid	8015B MOD NM	1907
LCS 880-1907/2-A	Lab Control Sample	Total/NA	Solid	8015B MOD NM	1907
LCSD 880-1907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B MOD NM	1907

Job ID: 890-536-1

#### Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

SDG: Rural Lea County NM

Client Sample ID: FL 2 @ 13'

Lab Sample ID: 890-536-1

Matrix: Solid

Date Collected: 04/15/21 00:00 Date Received: 04/15/21 16:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B MOD NM		1	1967	04/19/21 15:50	AJ	XM

#### **Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

9

44

12

# **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions

Job ID: 890-536-1 Project/Site: Bagley 7-inch - 13416 SDG: Rural Lea County NM

#### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	LAP	T104704400-20-21	06-30-21
• .	•	t the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for wh
The following analytes the agency does not of	•	t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh
• .	•	t the laboratory is not certifi Matrix	ied by the governing authority. This list ma Analyte	ay include analytes for wh

# **Method Summary**

Client: Etech Environmental & Safety Solutions

**Method Description** 

Total Petroleum Hydrocarbons

Project/Site: Bagley 7-inch - 13416

Job ID: 890-536-1

SDG: Rural Lea County NM

Protocol	Laboratory
SW846	XM

XM

#### 8015NM Prep Microextraction SW846

#### **Protocol References:**

Method

8015B MOD NM

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Sample Summary**

Client: Etech Environmental & Safety Solutions

Project/Site: Bagley 7-inch - 13416

Job ID: 890-536-1

SDG: Rural Lea County NM

	011 40 4 10	••	<b>.</b>		
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-536-1	FL 2 @ 13'	Solid	04/15/21 00:00	04/15/21 16:22	- 13

PM	
12:37:49	
021	_
OCD: 5/4/2	
Received by	Ľ

# **Chain of Custody**

Work Order No:

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crasibad, NM (432) 704-5440

	Project Manager: Top	Lowry	ritoeni	x,AZ (480) 355-0	Bill to: (if				010,020	2000 1100	I Cam Bodom						Order Con	nments	
		Ch Enviro	ment.		Company		_	raa					Pr	ogram:	UST/PS1			elds RRC Superfu	und
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	City, State ZIP: LOUIS	noton, N	M 88260		City, Sta	ate ZIP:							Re	porting	Level II	_Level III	PST/U	ST TRRP Level	IV 🗌
	Phone: 575	-396-23	78	Email:	phoe	tech	env	com					De	liverabl	es: EDD		ADaPT [	Other:	
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	Temperature (°C):	108/10.1	8	Thermometer	ID	iner						TI DALL					1	aOH: Na	
	Received Intact:	(Yes) No			9 7	of Containers	1		- (			11 144 14	771				Zr	Acetate+ NaOH: Zn	
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Sampler





**Chain of Custody Record** 

Lab PM

Kramer Jessica E-Mail



Carrier Tracking No(s)

💸 eurofins

COC No<sup>-</sup> 890-171 1

**Environment Testing** America

4/19/2021

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Ver 11/01/2020

#### **Eurofins Xenco, Carlsbad**

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Client Information (Sub Contract Lab)

Client Contact:	Phone					State of Origin: Da kramer@eurofinset.com  New Mexico									Page 1 of 1					
Shipping/Receiving Company						reditations Required (See note)					EXICO	Job#:								
Eurofins Xenco							AP - Louisiana NELAP - Texas							_	890-536-1					
Address.	Due Date Request	ed							Ano	lunio	Dog	· · · · · ·	, d				F	Preservation Cod	es	
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TX, 79701						į	- 1			- 1						1		E NaHSO4 F MeOH	Q Na2SO: R Na2S20	
Phone 432-704-5440(Tel)	PO#					(MOD) GRO-DRO												G Amchlor H Ascorbic Acid	S H2SO4	
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab)	(W=water S=solid O=waste/oil, tT=Tissue, A=Air	اقار	F 5	£							1			ĕ	Special In	nstructions	s/Note.
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maintain accreditation in the State of Ongin listed above for analysis/tests/ma LLC attention immediately If all requested accreditations are current to date	ithx being analyzed, the return the signed Chair	n of Custody at	testing to said o	omplicance to	ins Xe Euro	enco Li ofins Xe	enco LL	C	other	isti uctio	JI 15 WIII I	be prov	iueu A	ariy Cira	nges to	accie	cuitati	ion status snould be	Di odgili to Et	aronna venco
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Relinquished by	Date/Time:			Company		F	Receive	a by						Da	ite/Time	<b>e</b> :			Company	
Custody Seals Intact. Custody Seal No							Cooler	i emperat	ture(s) °	°C and	Other R	emarks								
Δ Yes Δ No									. ,											

Page 15 of 17

# Received by OCD: 5/4/2021 12:37:49 PM

**Bottle Order Information** 

Bottle Order Bottle Order #

Request From Client 4/16/2021

Date Order Posted

Order Status

In Process

Prepared By

Deliver By Date:

4/16/2021 11:59:00PM

Scan QR code for field sampler instructions

Lab Project Number

**Order Completion Information** 

Creator

Cloe Clifton

Filled by Sent Date

Sent Via

Tracking #

Sets Bottles/Set Qty Bottle Type Description	n Preservative	Method	Matrix	Sample Type	Comments	Lot#
Notes to Field Staff:	Health and Safet	y Notes:				
	Preservative	Comment				

Relinquished By	Company	Date	Time	Received By	Company	Seal#
Clar Clark	4.16.21					Seal# Seal#
Relinquished By	Company	Date	Time	Received By	Ouripairy	Seal#: Seal#:
						Seal#

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

# **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 890-536-1

SDG Number: Rural Lea County NM

List Source: Eurofins Carlsbad

Login Number: 536 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

**Eurofins Carlsbad** 

#### **Login Sample Receipt Checklist**

Client: Etech Environmental & Safety Solutions

Job Number: 890-536-1

SDG Number: Rural Lea County NM

List Source: Eurofins Midland

List Creation: 04/16/21 02:21 PM

List Number: 2
Creator: Copeland, Tatiana

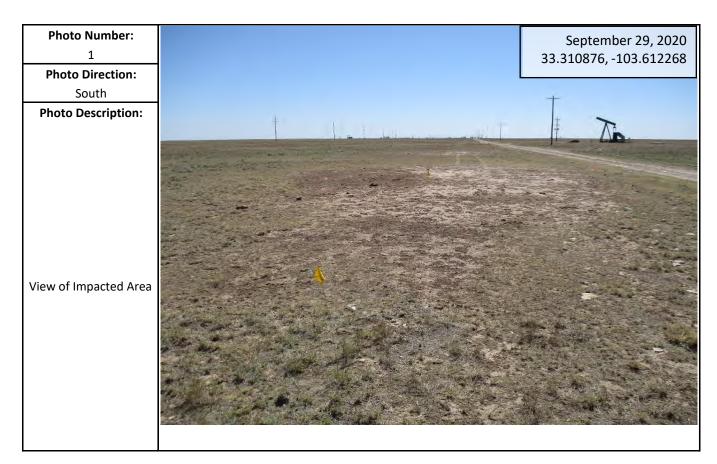
Login Number: 536

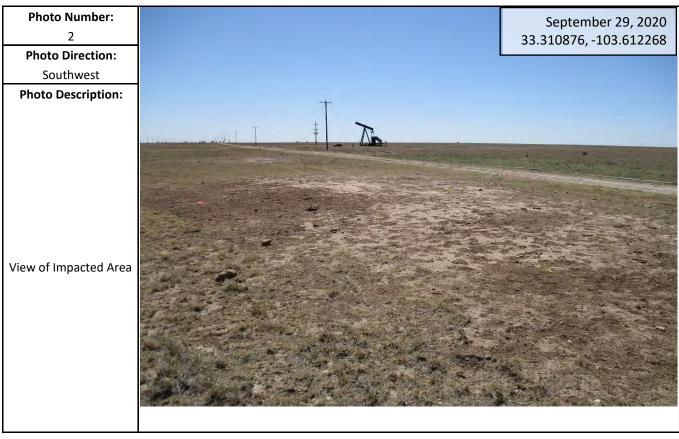
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

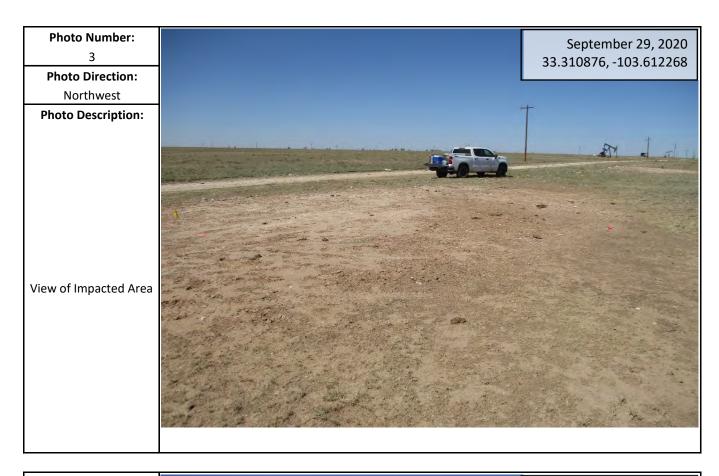
Released to Imaging: 6/16/2021 12:53:46 PM

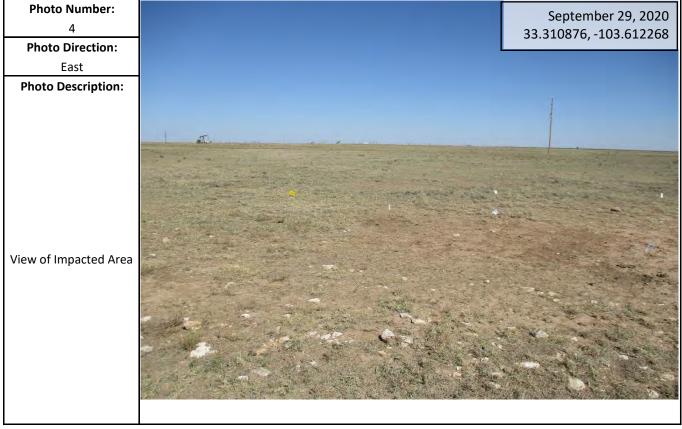
<6mm (1/4").

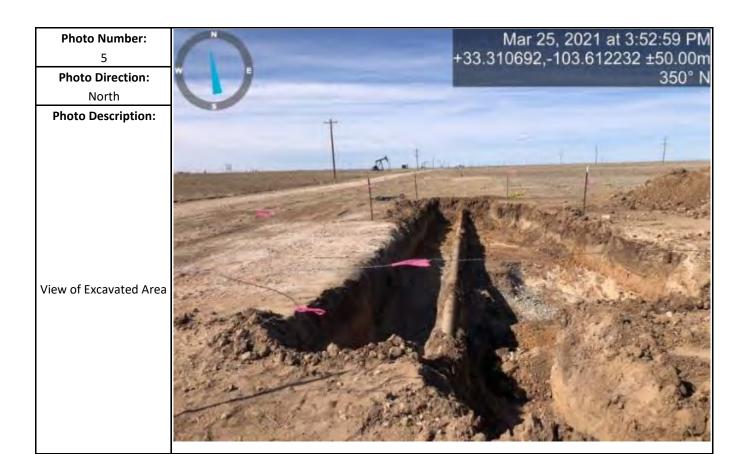
# Appendix D Photographic Log











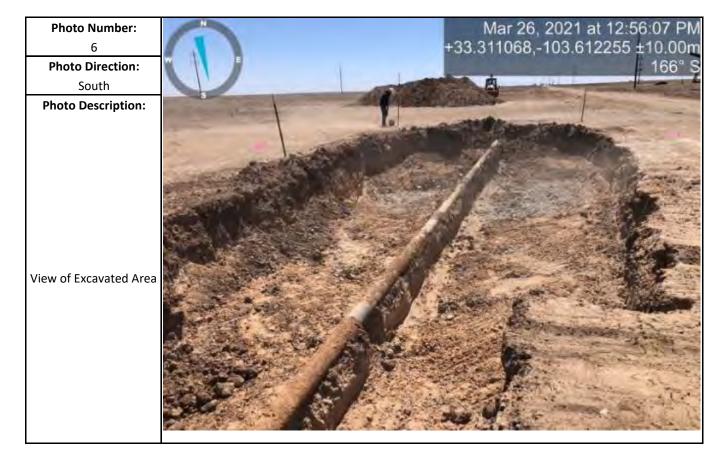




Photo Number:

8

Photo Direction:
Northeast

Photo Description:

View of Remediated Area After Backfilling & Regrading



Photo Number:

9

**Photo Direction:** 

East

**Photo Description:** 

View of Remediated Area After Backfilling & Regrading



**Photo Number:** 

10

**Photo Direction:** 

South-Southwest

**Photo Description:** 

View of Remediated Area After Backfilling & Regrading



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 26835

#### **CONDITIONS**

Operator:	OGRID:
TARGA MIDSTREAM SERVICES LLC	24650
1000 Louisiana	Action Number:
Houston, TX 77002	26835
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
ceads	None	6/16/2021