Received by OCD: 11/10/2022 9:48:19 AM Form C-141 State of New Mexico **Oil Conservation Division**

Incident ID	nAPP2207347201
District RP	
Facility ID	
Application ID	

Remediation Plan

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. \checkmark Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Camille Bryant Title: Remediation Supervisor Signature: _____ Date: Telephone: (575) 441-1099 email: cjbryant@paalp.com **OCD Only** 11/10/2022 Jocelyn Harimon Received by: Date: Approved Approved with Attached Conditions of Approval Denied X Deferral Approved Robert Hamlet 2/1/2023 Date: Signature:

Oil Conservation Division

	Page 2 of 14
Incident ID	nAPP2207347201
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>66.5</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ✓ Field data
- ✓ Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- ✓ Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- ✓ Laboratory data including chain of custody

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

Received by OCD: 11/10/20	022 9:48:19 AM State of New Mexico			Page 3 of 140
			Incident ID	nAPP2207347201
Page 4	Oil Conservation Divisio	Oil Conservation Division District RP		
			Facility ID	
			Application ID	
regulations all operators are public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Camille E</u>		notifications and perform co the OCD does not relieve the threat to groundwater, surfa	prrective actions for rele- e operator of liability sho ce water, human health liance with any other fec Supervisor	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: Jocelyr	1 Harimon	Date:11	/10/2022	

Received by OCD: 11/10/2022 9:48:19 AM Form C-141 State of New Mexico Page 5 Oil Conservation Division

Incident ID	nAPP2207347201
District RP	
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Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

✓ Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. \checkmark Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Camille Bryant Title: Remediation Supervisor Signature: Date: email: cjbryant@paalp.com Telephone: (575) 441-1099 **OCD Only** 11/10/2022 Received by: Jocelyn Harimon Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

.

Remediation Summary and Deferral Request

Plains All American Bonanza 22-15 Fed Com 1H

Eddy County, New Mexico Unit Letter L, Section 22, Township 25 South, Range 28 East Latitude 32.11293 North, Longitude 104.08073 West NMOCD Reference No. nAPP2207347201

Prepared By:

Etech Environmental & Safety Solutions, Inc. 2617 W. Marland Hobbs, New Mexico 88240

Man how

Matthew Grieco

1201

Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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TABLE OF CONTENTS

Section

PROJECT INFORMATION	1.0
SITE CHARACTERIZATION.	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	
REMEDIATION ACTIVITIES SUMMARY	4.0
RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN.	5.0
DEFERRAL REQUEST.	6.0
LIMITATIONS.	7 . 0
DISTRIBUTION	8.0

FIGURES

Figure 1 - Topographic MapFigure 2 - Aerial Proximity MapFigure 3 - Site and Sample Location Map

TABLES

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

APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data and Waste Transport Manifests
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log
- Appendix E Regulatory Correspondence

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Plains All American, has prepared this *Remediation Summary and Deferral Request* for the release site known as the Bonanza 22-15 Fed Com 1H (henceforth, "Site"). Details of the release are summarized below:

	Locatio	on of Release Sou	rce			
Latitude:	32.11293	Longitude:	-104.08073			
	Provide	d GPS are in WGS84 format.				
	nanza 22-15 Fed Com 1H	Site Type:	Tank Battery			
Date Release Discovered	ed: 3/12/2022	API # (if applical	ble): N/A			
Unit Letter Sec	ction Township	Range	County			
L	22 258	28E	Eddy			
Surface Owner: Sta	ate Federal Tribal	X Private (Name	e Devon Energy)			
	Nature ar	nd Volume of Ro	elease			
X Crude Oil	Volume Released (bbls)	9.6	Volume Recovered (bbls) 5			
Produced Water	Volume Released (bbls)		Volume Recovered (bbls)			
	Is the concentration of total of (TDS) in the produced water		Yes No X N/A			
Condensate	Volume Released (bbls)		Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released		Volume/Weight Recovered			
Cause of Release: Sump box on meter sk	id overflowed to failure of PR	εv.				
	In	iitial Response				
X The impacted area X Release materials b	release has been stopped. has been secured to protect hun have been contained via the use f recoverable materials have bee	of berms or dikes, abs	orbent pad, or other 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 the United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a halfmile radius of the Site. In addition, the New Mexico Oil Conservation Division (NMOCD) imaging database was searched for relevant well drilling logs. 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.

A review of the drilling log for NMOSE-permitted well C-01522, which is located approximately 2,810 feet north of the Site, indicates the well was drilled to approximately 150 feet below ground surface (bgs). Additionally, a review of the drilling log for Boring No. 4, a C-147 recycling facility geotechnical boring located approximately 1,703 feet northeast of the Site, indicates the well was drilled to approximately 66.5 feet bgs. No indications of inflow or accumulation of water were noted during the advancement of either well/investigative boring.

What is the shallowest depth to groundwater beneath the area affected by the release?	> 66	.5 Feet
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?	Yes	X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE, USGS, and NMOCD databases; and aerial imagery. The results are depicted on 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 Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
> 66.5 Feet	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 **REMEDIATION ACTIVITIES SUMMARY**

Excavation of impacted soil was completed by a third party contractor unassociated with Etech. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria was excavated stockpiled on site pending transfer to an NMOCD-approved surface waste facility for disposal.

On March 3, 2022, Etech visited the Site to collect soil samples of and adjacent to the excavation. Etech collected eight (8) delineation soil samples (EH @ SURFACE, EH @ 1, NH @ SURFACE, NH @ 1, SH @ SURFACE, SH @ 1, WH @ SURFACE, and WH @ 1) and eight (8) confirmation soil samples (FL1 @ 3', FL2 @ 3', FL3 @ 3', FL4 @ 3', EW, NW, SW, and WW). The collected samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the NMOCD Closure Criteria in each of the submitted soil samples.

In addition, Etech collected eight (8) deferral soil samples (EDEF1 @ SURFACE, EDEF1 @ 4', NDEF1 @ SURFACE, NDEF1 @ 4', SDEF1 @ 4', SDEF1 @ 4', WDEF1 @ SURFACE, and WDEF1 @ 4) to characterize the impacted soil remaining in-situ beneath the meter skid. The collected samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of the surface samples, which had TPH values ranging from 28,200 mg/kg in sample SDEF1 @ SURFACE to 32,500 mg/kg in sample NDEF1 @ SURFACE.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and waste transport manifests are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

The final dimensions of the excavated area were 25 feet in length, 50 feet in width, and three (3) feet in depth. During the course of remediation activities, approximately 60 cubic yards of impacted soil was transported to an NMOCD-approved surface waste facility for disposal.

5.0 **RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas were entirely on the production pad and will not require reseeding.

6.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Impacted soil affected above the NMOCD Closure Criteria was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria. Impacted soil affected above the NMOCD Closure Criteria beneath the meter skid characterized by deferral sample points EDEF1, NDEF1, SDEF1, and WDEF1 will be remediated upon decommissioning the facility.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Plains All American, provide copies of this *Remediation Summary and Deferral Request* to the appropriate agencies and request partial closure be granted to the Bonanza 22-15 Fed Com 1H Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Deferral Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and 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 Plains All American. Use of the information contained in this report is prohibited without the consent of Etech and/or Plains All American.

8.0 **DISTRIBUTION**

Plains All American

1106 Griffith Drive Midland, Texas 79706

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

(Electronic Submission)

Figure 1 Topographic Map

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Figure 2 Aerial Proximity Map



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Figure 3 Site and Sample Location Map



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

			Concer	ntrations o	Tabl of BTEX, 7		Chloride i	n Soil			
				I	Plains All A	American					
				Bona	nza 22-15	Fed Com	1H				
				NMOCI) Ref. #: n	APP2207	347201				
NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
			I	1	Delineation	Samples	1				
EH @ SURFACE		0			< 0.00398	<50.0	88.9	88.9	<50.0	88.9	34.4
EH @ 1	3/17/2022	1		< 0.00200		<50.0	78.8	78.8	<50.0	78.8	24.7
NH @ SURFACE	3/17/2022	0		< 0.00199		<49.9	107	107	<49.9	107	32.3
NH @ 1	3/17/2022	1		< 0.00199		<49.9	91.9	91.9	<49.9	91.9	14.9
SH @ SURFACE		0		< 0.00202		<49.9	73.0	73.0	<49.9	73.0	19.3
SH @ 1	3/17/2022	1		< 0.00199		<49.8	115	115	<49.8	115	21.6
WH @ SURFACE	3/17/2022	0	In-Situ		0.00505	<50.0	77.3	77.3	<50.0	77.3	17.1
WH @ 1	3/17/2022	1	In-Situ	< 0.00200	< 0.00399	<49.9	112	112	<49.9	112	19.4
			1		Deferral S	Samples					
EDEF1 @ SURFACE	3/17/2022	0	Deferral	< 0.998	22.0	5,410	20,300	25,700	3,870	29,600	2,150
EDEF1 @ 4'	3/17/2022	4	Deferral	0.00619	0.0429	<50.0	127	127	195	322	18.3
NDEF1 @ SURFACE	3/17/2022	0	Deferral	<1.01	5.28	5,620	23,000	28,600	3,910	32,500	362
NDEF1 @ 4'	3/17/2022	4	Deferral	0.00331	0.0105	<49.9	170	170	271	441	19.4
SDEF1 @ SURFACE	3/17/2022	0	Deferral	<1.00	25.7	4,030	21,500	25,500	2,660	28,200	129
SDFE1 @ 4'	3/17/2022	4	Deferral	< 0.00198	< 0.00396	<50.0	156	156	140	296	15.3
WDEF1 @ SURFACE	3/17/2022	0	Deferral	< 0.992	35.5	6,150	22,600	28,800	3,200	32,000	1,680
WDEF1 @ 4'	3/17/2022	4	Deferral	0.00293	0.0165	<49.9	84.6	84.6	133	218	16.6
			-	-	Confirmatio	n Samples	-				
FL1 @ 3'	3/17/2022	3	In-Situ	< 0.00201	< 0.00402	<50.0	355	355	85.4	440	139
FL2 @ 3'	3/17/2022	3	In-Situ	< 0.00199	0.00430	56.0	270	326	82.2	408	183
FL3 @ 3'	3/17/2022	3	In-Situ	< 0.00200	< 0.00400	<50.0	205	205	76.6	282	173
FL4 @ 3'	3/17/2022	3	In-Situ	< 0.00200	< 0.00400	<49.9	203	203	72.3	275	172
EW	3/17/2022	0-3	In-Situ	< 0.00199	< 0.00398	<50.0	146	146	115	261	63.9
NW	3/17/2022	0-3	In-Situ	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	263
SW	3/17/2022	0-3	In-Situ	< 0.00202	< 0.00403	<50.0	186	186	96.3	282	82.5
WW	3/17/2022	0-3	In-Situ	< 0.00201	< 0.00402	<50.0	72.1	72.1	89.2	161	234

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Appendix A Depth to Groundwater Information

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Page 21 of 140



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Terreter Street	Wa	New Me. ter Colu	00	v		e Enginee pth to	
(A CLW##### in the POD suffix indicates th POD has been replaced & no longer serves a water right file.)	e (R=POD has been replaced, O=orphaned, C=the file is closed) PO	(quarter	s are 1=NW 2=NE s are smallest to lai	/	D83 UTM in me	eters)	(In feet) Water
POD Number <u>C 01522</u>		n County 64 16 4 ED 1	Sec Tws Rng 22 25S 28E	X 586843	Y 3554004* 🌍	DistanceDepthV 691	VellDepthWater Column 150
					Averag	e Depth to Water:	
						Minimum Depth:	
						Maximum Depth:	
Record Count: 1							
UTMNAD83 Rad	lius Search <u>(in mete</u>	<u>rs):</u>					
Easting (X):	586725	Northing (Y):	3553323.1	R	adius: 804.67		
*UTM location was deriv	ved from PLSS - see H	elp					
The data is furnished by the accuracy, completeness, re				derstanding that	t the OSE/ISC ma	ke no warranties, expr	essed or implied, concerning the

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WATER COLUMN/ AVERAGE DEPTH TO WATER

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New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=N	IE 3=SW 4=SE)	
		(quarters are smallest to	largest)	(NAD83 UTM in meters)
Well Tag	POD Number	Q64 Q16 Q4 Sec	Tws Rng	X Y
	C 01522	1 22	258 28E	586843 3554004* 🌍
x Driller Lice	nse: 30	Driller Company:	BARRON,	EMMETT
Driller Nam	e: BARRON, EM	METT		
Drill Start I	Date: 07/15/1974	Drill Finish Date:	09/10/197	4 Plug Date:
Log File Da	te: 10/03/1974	PCW Rcv Date:		Source:
Pump Type:	:	Pipe Discharge Size:		Estimated Yield:
Casing Size	:	Depth Well:	150 feet	Depth Water:

*UTM location was derived from PLSS - see Help

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

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POINT OF DIVERSION SUMMARY

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		Thickness	Thickness in Feet Color and Type of Material Encountered				
From	То	in Feet	Color and Type of Material Encountered				
0	5	5	Top soil				
5	35	30	Pink sandy clay				
35	120	85	Brown sandy clay				
120	125	5	Slight lime & gypsum				
125	150	25	Anhydrite & gypsum				
			Dry hole				
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Section 7. REMARKS AND ADDITIONAL INFORMATION

Water showing at 125' slight, not enough to test for salt. Deeper hole did not seem promising after 150'.



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The undersigned there by certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

ann

Cannel Savron Driller

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INSTRUCTIONS: This for hould executed in triplicate, preferably typewritten, submitted appropriate district office of the State Engineer. A philos, except Section 5, shall be answered as complete, and accurate possible when any well is Released to Imaging: 2/1/2023 3/1/206 pmf orm is used as a plugging record, only Section 1(a) and Section need be completed.





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26 of 140

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Search Results -- 1 sites found

Agency code = usgs site_no list = • 320557104061501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320557104061501 25S.28E.29.41243A

Available data for this site Groundwater: Field measurements 🗸

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°05'56.0", Longitude 104°06'22.6" NAD83 Land-surface elevation 2,968.90 feet above NGVD29 This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<u>Table of data</u>

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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USGS 320557104061601 25S.28E.29.41243

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°05'57", Longitude 104°06'16" NAD27 Land-surface elevation 2,968 feet above NAVD88 The depth of the well is 60 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



USGS 320557104061601 255.28E.29.41243

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Search Results -- 1 sites found

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Minimum number of levels = 1

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USGS 320649104062401 25S.28E.20.41321

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011

Latitude 32°06'49", Longitude 104°06'24" NAD27

Land-surface elevation 3,007 feet above NAVD88

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

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

Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period

USGS 320649104062401 255.28E.20.41321 2944.20 62,80 feet 2944.00 63,00 1988, ø 63,20 2943,80 Ó above NAV surface 2943.60 63,40 level 63,60 2943,40 Groundwater 63,80 Ć 2943,20 Ö 64.00 2943.00 1984 1986 1988 1990 1992 1994 1996 1998

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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Agency code = usgs site_no list = • 320749104041001

Minimum number of levels = 1

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USGS 320749104041001 25S.28E.15.23000

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°07'54.6", Longitude 104°04'20.3" NAD83 Land-surface elevation 2,949.30 feet above NGVD29 The depth of the well is 70 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer.

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

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

USGS 320749104041001 255.28E.15.23000 44.0 2905.0 feet 45.0 1929 2904.0 46.0 2903.0 above ø 47.0 2902.0 Level Ó 48.0 2901.0 Groundwater 49.0 2900.0 ø Θ ø 50.0 1976 1982 1988 1994 2000 2006 2012 - Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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Appendix B Field Data and Waste Transport Manifests

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CTECH	S. Inc.	Initi	al Release Asses	2	117/22
Project: Bonanza 2 Project Number:	2-15 Fed Com 1H 15785	SH Latitude:	Clean Up Level: 32.11293	Date: 3 20,000 mg/kg Cl-, Longitude:	2,500 mg/kg TPH
			Site Diagram		
E K KJ	EWIEF /	SW 2 ND 13205 LAC Unit CARE HIJON <u>1</u> NW NH		Electi F	Hal
Notes: Collect (Jonfirmation	Sul Sample	<u>،</u>		↓ N
Welivert	width: 2,5 width: 2,5 ctures of the Affect eld Screened and c en Data Entered o	~Area: ted Area includin on Ice? n Sample Log?	1250 sq.ft.	~Depth: 3 ¹	Yes No

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Environmental & Safety Solutions, Inc.			Sample L	.0g Date:	3/17/22
Project: Bonanza 22-15 Fe	ed Com 1H			_	
Project Number:	15785	Latitude:	32.11293	Longitude:	-104.08073
Sample ID	PID/Odor		Chloride Conc.		GPS
		756			
FLI@M'3'	P	952			
FL 20131	1	788			
NW	-	2464			
EW	-	888			
SSV	-	1078			
WW	-	1368			
NDEFI @ surface					
NDEFIP	-				
EDEFI @ suiface					
EDEFIQ	-				
SDEFI @ Surface					
SDEFI @	-				
WDEFIDSVILLO					

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Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

WDEFIQ

5H FL2@41

FL4@4

NHQI' EHQI' THQI' THQI'

NÄ

EN

WH

Sidewall = SW #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

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

GPS Sample Points, Center of Comp Areas

E.

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D. mark

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TRANSPORTER'S MANIFEST
SHIPPERS FACILITY NAME & ADDRESS:
Plains Pipeline, L.P.
115 London Road
Loving, NM 88256
BONANZA CTB
LOCATION OF MATERIAL:
32.11293, -104.08073
U/LL, Section 22, Township 25 South, Range 28 East
DESCRIPTION OF WASTE:
Non-Hazardous Hydrocarbon impacted soil
Volume: 12 VARDS
TRANSPORTERS NAME & ADDRESS:
Jade Oilfield Services
Driver's Name: JOSE SANCHEZ
Date: 5/11/22 1
Driver's Signature: M. Janehus
FACILITY CONTACT:
Brian Kennedy 505 685 0743
Brian Kennedy Plains Pipeline, LP 115 London Road 505 635 0743 505 635 0743
115 London Road 505 635 0743
Loving, NM 88256
Date: May.11,2022
Signature: Frian Fringer **
DISPOSAL FACILITY:
LeaLand
Date: 5////22
Date: 5/11/22 Signature: M. Sanchez
Signature: M Sanchez
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TRANSPORTER'S MANIFEST	
SHIPPERS FACILITY NAME & ADDRESS:	
Plains Pipeline, L.P.	
115 London Road	
Loving, NM 88256	5
LOCATION OF MATERIAL:	
32.11293, -104.08073	
U/LL, Section 22, Township 25 South, Range 28 East	
DESCRIPTION OF WASTE:	
Non-Hazardous Hydrocarbon impacted soil	
Volume: 17 VARAS	
The man and the second	
TRANSPORTERS NAME & ADDRESS:	
Jade Oilfield Services	
Driver's Name: 65 E SAN CHEZ	
Date: 5/1/27	
Driver's Signature:	
FACILITY CONTACT:	
Brian Kennedy	
Plains Pipeline, LP	
115 London Road	
Loving, NM 88256	
Date: May.11,2022	
Signature: Drian A analy **	
DISPOSAL FACILITY:	
LeaLand	
2	
Date: <u>5/11/22</u> Signature: <u>M. Sanchoz</u>	
Signature: M. Sancha	
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G	Phone Pipeline, LP	CITY	I V. OINIR	STATE		ZIP 6.7	INRCC I.D. NO	(11,113) A.M.	. a. M.9 (FI
E	une ist darib waste terkje slupped.	and the second second	Isbad	NM STREET		8220		Stor Starterk	
1	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:	n nijeli kije ov	u unit delphilitique la car 	8. CON No.	TAINERS Type	9. TOTAL OUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	a. Non-Regulated, Non Hazardous Wa	aste			1	CM			
	b. Gedaam aano y ami	Van dat d					no colución en	9	
E	c								
	d. water and a second								
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А	Contraction of the Contraction o						15. WASTE F	KOT ILL N	TIEM II
A	BONANZA CTB 14. IN CA	SE OF	FMERC	ENCY OR SPIL	LCO	TACT			
Т	NAME	PHON		ENCI OR SITE		TACI	24-HOUR	EMERGE	NCY NO.
	JOE ONTIVEROS	or other designs of the local division of the local division of the local division of the local division of the	897-404	greenik enker oor					
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	and a second		N LOUAL MARS		1019-028	an ann Alani			-1 (0.43)
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A	NAME: JADE CONSTRUC	TION		NAME:					
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					
P O	IN CASE OF EMERGENCY CONTACT:	JOL:	E PALM	IN CASE OF EME	RGENCY	CONTAC	CT:		TERMON
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt of	of material	EMERGENCY PH 19. TRANSPOL		2): Ackno	wledgment of r	eceipt of m	aterial
T E	PRINTED/TYPED NAME	nave	127	PRINTED/TYPED	The state of	an naartaar	DAGESTER	TRANSIN	SI MATI
R S	VET VII.	<u>- 63 643</u>	the contract of the contract o						
5	SIGNATURE	DATE	6/1	SIGNATURE			<u>E</u>	ATE	
	Lea Land, LLC	ADDR		Marker 64, U.	с Ц	62/19	PHONE:	575-88	7 1019
DF	Lea Laild, LLC	NALIGENOSI 1		files East of Ca			0,	575-00	/-4040
I A S C	PERMIT NO.	Rainteopr	non ig sid i	20. COMMENTS	0.2033	a opticant	o vitero a la	0803810	IS MARTIN
P I O L	WM-01-035 - New Mex	100							
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		I Hereby c	ertify that the above d	escribed	wastes were	e delivered to th	uis facility, i	hat the
LY	AUTHORIZED SIGNATURE		bon VI trib	CELL NO.		DATE		TI	Æ
	Manuela Sunch	e.	/				5/11/200	2 le	0.55
GENER	ATOR: COPIES 1 & 6	DISP	OSAL SITE	: COPIES 2 & 3			TRANSP	ORTERS: 0	COPIES 4 & 5

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TRANSPORTER'S MANIFEST	
SHIPPERS FACILITY NAME & ADDRESS:	
Plains Pipeline, L.P.	
115 London Road	
Loving, NM 88256	
LOCATION OF MATERIAL:	
32.11293, -104.08073	
U/LL, Section 22, Township 25 South, Range 28 East	
DESCRIPTION OF WASTE:	
Non-Hazardous Hydrocarbon impacted soil	
Volume: 12 YARDS	
TRANSPORTERS NAME & ADDRESS:	
Jade Oilfield Services	
Driver's Name: Miguel 60 mer	
Date: 5 12 22	
Driver's Signature:	
MAB	
FACILITY CONTACT:	
Brian Kennedy	
Plains Pipeline, LP	
115 London Road	
Loving, NM 88256	
Date: May.12,2022	
Signature: Buan Bennery	**
DISPOSAL FACILITY:	
ealand	
Date: 5 / 7 7 7	
Date: 22	
signature:	

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TRANSPORTER'S MANIFEST
SHIPPERS FACILITY NAME & ADDRESS:
Plains Pipeline, L.P.
115 London Road
Loving, NM 88256
LOCATION OF MATERIAL:
32.11293, -104.08073
U/LL, Section 22, Township 25 South, Range 28 East
DESCRIPTION OF WASTE:
Non-Hazardous Hydrocarbon impacted soil
Volume: D VACAS
TRANSPORTERS NAME & ADDRESS:
Jade Oilfield Services
Driver's Name: Misuel 60mer Date: 51222
Driver's Signature:
FACILITY CONTACT:
Brian Kennedy
Plains Pipeline, LP
115 London Road
Loving, NM 88256
Date: May.14,2022
Signature: Than Anna **
DISPOSAL FACILITY:
LeaLand
Date: <u>5/12/22</u> Signature: <u>MSanchox</u>
MA Sancha (
Signature: MSanchoz
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	1300 WEST MAIN ST			ND, LLC A CITY, OK 73106 • 1	PHONE (405) 236-4	257	JA	DE
NON	N-HAZARDOUS WASTE MANIF	EST	NO	54940	1. PA	GE_OF	2. TRAII	ER NO.	Ra
-	3. COMPANY NAME Plains Pipeline, LP	4. ADDR	and the second second second			5.1	PICK-UP DATE		
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E	osquita od Moskuwcises Aobeliu San	Carl	sbad	NM	6	99220	10111456.02010	ЯО <u>946</u> 44	A NUMBER
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	^{a.} Non-Regulated, Non Hazardous Wa	aste .			1	CM			
	b. Deleter the second								
E	C.				- 80.000 g	norso as e astroi di		3	
R	d. WT 44581 111181)							
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:		Bas-dos	n no Builinean Diavin	the structures		13. WASTE P	ROFILE N	0.
A	ROMANZA CTR								
	14. IN CA			ENCY OR SPIL	L, COI	NTACT		- Area	
Т		PHONE	887-404	tiberetid = 1 generation=21			24-HOUR	EMERGE	NCY NO.
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	I Hereby d d labeled, a	leclare that and are in al	the contents of this co l respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE					DATE
T	16. TRANSPORTER (1)	deler mostele	S aged to all	17.	TF	ANSPO	RTER (2)	be reached	
R A	NAME:	NOIT		NAME:					
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					
P O	IN CASE OF EMERGENCY CONTACT:	JOE	EPALM	IN CASE OF EME	RGENCY	Y CONTAC	CT:		
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt of	5753 f material	EMERGENCY PH 19. TRANSPOL		2): Ackno	wledgment of r	eceipt of m	aterial
T E	PRINTED/TYPED NAME	hing	1207	PRINTED/TYPED		1911/26/942	lovy cer actual	HZAAT	
R S	and a baself in		E.H	a mana		, j	all and the same		and the local of
	SIGNATURE	DATE	1	SIGNATURE				ATE	
	Lea Land, LLC	ADDRI		Marker 64, U.	S. Hw	v 62/18	PHONE:	575-88	7-4048
D F I A				files East of Ca			and the spectra		
S C P I	PERMIT NO. WM-01-035 - New Mex	ico	ine paran antes au fi	20. COMMENTS					
O L S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: vastes.	I Hereby c	ertify that the above do	escribed v	wastes were	e delivered to th	is facility, (hat the
LY	AUTHORIZED SIGNATURE	in a data	pan en fina	CELL NO.		DATE	5/12/202	TIM	ЛЕ
_	Manuela Sarches	/	dielen ane	a for a subject of				9	: 50
GENER	ATOR: COPIES 1 & 6	DISPO		: COPIES 2 & 3			TRANSP	ORTERS: 0	COPIES 4 & 5

William.

· 14

Released to Imaging: 2/1/2023 3:47:06 PM

1. 1. 1. 1. S.

•

TRANSPORTER'S MANIFEST
SHIPPERS FACILITY NAME & ADDRESS:
Plains Pipeline, L.P.
115 London Road
Loving, NM 88256
LOCATION OF MATERIAL:
32.11293, -104.08073
U/LL, Section 22, Township 25 South, Range 28 East
DESCRIPTION OF WASTE:
Non-Hazardous Hydrocarbon impacted soli
Volume: 12 VARDS
1
TRANSPORTERS NAME & ADDRESS:
Jade Olifield Services
Driver's Name: JOSE SANCHEZ
Date: 5/13/22
Driver's Signature: Jase Launching
FACILITY CONTACT:
Brian Kennedy
Plains Pipeline, LP
115 London Road
Loving, NM 88256
Date: May.13,2022
Signature: BALCIA LERADOLLE **
DISPOSAL FACILITY:
LeaLand
5/17/22
Date:
Date: 5/13/22 Signature: Gandter Alumittian
Signature: Gandhe fillionillium

Received by OCD: 11/10/2022 9:48:19 AM

	LEA 1300 WEST MAIN STREET • OKLA	LAND, LLC HOMA CITY, OK 73106	PHONE (4	405) 236-4	257	Ja	
NO	N-HAZARDOUS WASTE MANIFEST NO	154999	1. PA	GEOF_	2. TRAIL	ER NO.	10
C	3. COMPANY NAME 4. ADDRESS	on all an or provident closes o		5. F	ICK-UP DATE		
G	PHONE NO. CITY	STATE		ZIP 6. T	NRCC I.D. NO		TEM 6.7
E	Carlsbac	1.1.2.1.1 respectively walk second in the	1991 12 88	21P 0. 1	NRCC I.D. NO	RO BRAN	
Ľ	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	g he out one forming to to a		TAINERS	9. TOTAL	10. UNIT	11. TEXA
N	a. Non-Regulated, Non Hazardous Waste	<u></u>	No.	Туре	QUANTITY	Wt/Vol.	WASTE II
	b.						
E	C. C	igosi et		h photo i	dunodyschi s		
	(C): A PERIOD BOXES carrows Search Indialized Collection (C): A PERIOD			ineared on	end second in a		
R	d. wr. 30960			- total - office	and of the A	O LATOR	* 101111
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	Chelikin Contribution	rounds and		13. WASTE P	ROFILE N	0.
A	BONANZACTB	1 no ashirita LakigT					
		ERGENCY OR SPIL	LL, CON	TACT	đ		
Т	NAME PHONE NO JOE ONTIVEROS 576-987	AG40			24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: I Hereby declar shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica	e in all respects in proper c	ondition for	r transport	by highway acco	ording to a	pplicable
O R	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica PRINTED/TYPED NAME	e in all respects in proper c	ondition for	r transport	by highway acco	ording to a	pplicable
R	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica	e in all respects in proper c ble state regulations, and ar	ondition for e the same	r transport materials p	by highway acco	ording to a	pplicable A LAND, Ll
R	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica PRINTED/TYPED NAME	e in all respects in proper c ole state regulations, and an SIGNATURE	ondition for e the same	r transport materials p	by highway acco reviously appro	ording to a	pplicable A LAND, L
R T R A N	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica PRINTED/TYPED NAME 16. TRANSPORTER (1)	state regulations, and an SIGNATURE	ondition for e the same	r transport materials p	by highway acco reviously appro	ording to a	pplicable A LAND, Ll
R T R A N S P	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: LOE CONSTRUCTION	e in all respects in proper c ole state regulations, and an SIGNATURE 17. NAME: TEXAS I.D. NO.	ondition for e the same	r transport materials p	by highway accorreviously appro	ording to a	pplicable A LAND, L
R T R A N S P O	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: International construction TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 5	e in all respects in proper c ole state regulations, and an SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH	ondition for e the same TR ERGENCY IONE:	ANSPO	py highway accorreviously appro	ording to a wed by LE.	pplicable A LAND, L) DATE
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R T R A N S P O R T E R S D F A C P I L S	shipping name and are classified, packed, marked, and labeled, and a international and national government regulations, including applica PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: Image: Construction TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: Image: Construction 18. TRANSPORTER (1) : Acknowledgment of receipt of mate particular partic	e in all respects in proper c ole state regulations, and an SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH erial 19. TRANSPO PRINTED/TYPEI SIGNATURE Mile Marker 64, U. 30 Miles East of C. 20. COMMENTS	TR ERGENCY HONE: RTER (2 D NAME _ .S. Hwy arlsbad,	ANSPO CONTAC 2): Acknow 62/180 NM	py highway accorreviously appro RTER (2) T: vledgment of re <u>D/</u>), PHONE:	ecceipt of ma ATE 575-88'	pplicable A LAND, LI DATE ateria! 7-4048 hat the

Appendix C Laboratory Analytical Reports

Received by OCD: 11/10/2022 9:48:19 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2098-1

Laboratory Sample Delivery Group: Rural Eddy County NM Client Project/Site: Bonanza 22-15

For:

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

Attn: Joel Lowry

KRAMER

Authorized for release by: 3/30/2022 7:48:00 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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.

Visit us at: www.eurofinsus.com/Env

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Ask-

The

Released to Imaging: 2/1/2023 3:47:06 PM

Laboratory Job ID: 890-2098-1 SDG: Rural Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	11
QC Sample Results	13
QC Association Summary	19
Lab Chronicle	23
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

Released to Imaging: 2/1/2023 3:47:06 PM

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

Qualifiers		_ 3
GC VOA		
Qualifier	Qualifier Description	_ 4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
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.	6
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	Q
HPLC/IC		0
Qualifier	Qualifier Description	_ 9
U	Indicates the analyte was analyzed for but not detected.	
Glossary		10
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	- 11
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	13
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)	

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

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)

MDL

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC RER

RL

RPD TEF

TEQ TNTC

ML

Job ID: 890-2098-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2098-1

Receipt

The samples were received on 3/17/2022 1:27 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 24.2°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

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-2099-A-1-C), (890-2099-A-1-D MS)	
and (890-2099-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.	

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21849 and analytical batch 880-21864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-21849/2-A), (LCSD 880-21849/3-A) and (MB 880-21849/1-A). Evidence of matrix interferences is not obvious.

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.

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: NH @ SURFACE Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/22 13:50	03/23/22 23:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/22 13:50	03/23/22 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/23/22 13:50	03/23/22 23:14	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/23/22 13:50	03/23/22 23:14	1
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/22 16:42	1
Method: 8015 NM - Diesel Range	e Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	107		49.9		mg/Kg			03/21/22 09:51	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/22 08:50	03/18/22 18:15	1
Diesel Range Organics (Over C10-C28)	107		49.9		mg/Kg		03/18/22 08:50	03/18/22 18:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/22 08:50	03/18/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/18/22 08:50	03/18/22 18:15	1
o-Terphenyl	110		70 - 130				03/18/22 08:50	03/18/22 18:15	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	32.3		4.99		mg/Kg			03/28/22 16:26	1
Chloride									

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/22 13:50	03/23/22 23:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/23/22 23:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/22 13:50	03/23/22 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/23/22 13:50	03/23/22 23:35	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/23/22 13:50	03/23/22 23:35	1

Eurofins Carlsbad

Page 53 of 140

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-1

Matrix: Solid

5

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5

Client Sample Results

lient Sample ID: NH @1							Lab San	nple ID: 890-	2098-2
ate Collected: 03/17/22 00:00									x: Solid
ate Received: 03/17/22 13:27									
ample Depth: 1									
Method: Total BTEX - Total BTEX									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/22 16:42	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.9		49.9		mg/Kg			03/21/22 09:51	1
Method: 8015B NM - Diesel Rang	·								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/22 08:50	03/18/22 18:35	1
Diesel Range Organics (Over	91.9		49.9		mg/Kg		03/18/22 08:50	03/18/22 18:35	1
C10-C28)					5 5				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/22 08:50	03/18/22 18:35	1
0	2 / D	0	1				D escriptions of	A	D# 5-
Surrogate 1-Chlorooctane	% Recovery 	Qualifier	Limits 70 - 130				Prepared 03/18/22 08:50	Analyzed 03/18/22 18:35	Dil Fac
o-Terphenyl	93 112		70 - 130 70 - 130				03/18/22 08:50	03/18/22 18:35	1
o-reipnenyi	112		70 - 150				03/10/22 00.30	03/10/22 10:33	,
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		5.01		mg/Kg			03/28/22 16:53	1
-			5.01		mg/Kg				
lient Sample ID: EH @SUR			5.01		mg/Kg		Lab San	nple ID: 890-	2098-3
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00			5.01		mg/Kg		Lab San	nple ID: 890-	2098-3
Client Sample ID: EH @SUR Date Collected: 03/17/22 00:00			5.01		mg/Kg		Lab San	nple ID: 890-	2098-3
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27	FACE	(GC)	5.01		mg/Kg		Lab San	nple ID: 890-	2098-3
Client Sample ID: EH @SUR late Collected: 03/17/22 00:00 late Received: 03/17/22 13:27 Method: 8021B - Volatile Organie	FACE	(GC) Qualifier	5.01	MDL	mg/Kg Unit	D	Lab San	nple ID: 890-	
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte	FACE			MDL		<u>D</u>		nple ID: 890- Matri	2098-3 x: Solid Dil Fac
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene	C Compounds (C Compounds (Result <0.00199 <0.00199	Qualifier U U	RL 0.00199 0.00199	MDL	Unit	D	Prepared 03/23/22 13:50 03/23/22 13:50	nple ID: 890- Matri Analyzed	2098-3 x: Solid Dil Fac
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene	c Compounds (Result <0.00199	Qualifier U U	RL	MDL	Unit mg/Kg	D	Prepared 03/23/22 13:50	nple ID: 890- Matri <u>Analyzed</u> 03/23/22 23:56	2098-3 x: Solid
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	C Compounds (C Compounds (C Compounds (Result <0.00199 <0.00199 <0.00398	Qualifier U U U U U	RL 0.00199 0.00199 0.00199 0.00398	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid Dil Fac
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	C Compounds (C Compounds (C Compounds (Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U U U U U	RL 0.00199 0.00199 0.00199 0.00398 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid Dil Fac 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	C Compounds (C Compounds (C Compounds (Result <0.00199 <0.00199 <0.00398	Qualifier U U U U U U	RL 0.00199 0.00199 0.00199 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid Dil Fac 1 1 1 1 1
Client Sample ID: EH @SUR Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	C Compounds (C Compounds (<pre></pre>	Qualifier U U U U U U U	RL 0.00199 0.00199 0.00199 0.00398 0.00199 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	C Compounds (C Compounds (C Compounds (Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U U U U U U	RL 0.00199 0.00199 0.00199 0.00398 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid Dil Fac 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	C Compounds (Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <%Recovery	Qualifier U U U U U U U	RL 0.00199 0.00199 0.00199 0.00398 0.00199 0.00398 Limits	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 Analyzed	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	C Compounds (C Compounds (Result <0.00199 <0.00199 <0.00398 <0.00398 %Recovery 107 101 	Qualifier U U U U U U U	RL 0.00199 0.00199 0.00199 0.00398 0.00398 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	C Compounds (C Compounds (Result <0.00199 <0.00199 <0.00398 <0.00398 %Recovery 107 101 	Qualifier U U U U U Qualifier	RL 0.00199 0.00199 0.00199 0.00398 0.00398 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 Analyzed 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte	C Compounds (Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00199 <0.00398 <0.00398 <0.00398 <0.0038 <0.00199 <0.0038 <0.00398 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.0038 <0.00	Qualifier U U U U Qualifier	RL 0.00199 0.00199 0.00199 0.00398 0.00398 Limits 70 - 130 70 - 130 RL		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte	C Compounds (C Compounds (<pre></pre>	Qualifier U U U U Qualifier	RL 0.00199 0.00199 0.00199 0.00398 0.00398 0.00398 1.00398 0.00398 0.00398 0.00398 0.00398 0.00398 0.00398 0.00398 1.00398 0.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398 1.00398		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 Analyzed 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte Total BTEX	C Compounds (<0.00199	Qualifier U U U U U U Qualifier U	RL 0.00199 0.00199 0.00199 0.00398 0.00398 Limits 70 - 130 70 - 130 RL		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range	C Compounds (Result <0.00199	Qualifier U U U U Qualifier U O) (GC)	RL 0.00199 0.00199 0.00398 0.00398 0.00398 Limits 70 - 130 70 - 130 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared	Analyzed 03/23/22 23:56 03/23/22 23/22 23/22 03/24/22 23/22	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	C Compounds (Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 Calculation Result <0.00398 Calculation Result <0.00398	Qualifier U U U U U U Qualifier U	RL 0.00199 0.00199 0.00398 0.00398 0.00398 Limits 70 - 130 70 - 130 RL 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit Unit		Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50 03/23/22 13:50	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1
	C Compounds (Result <0.00199	Qualifier U U U U Qualifier U O) (GC)	RL 0.00199 0.00199 0.00398 0.00398 0.00398 Limits 70 - 130 70 - 130 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Mg/Kg	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared	Analyzed 03/23/22 23:56 03/23/22 23/22 23/22 03/24/22 23/22	2098-3 x: Solid Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	FACE c Compounds (<0.00199	Qualifier U U U U U Qualifier U O) (GC) Qualifier	RL 0.00199 0.00199 0.00398 0.00398 0.00398 Limits 70 - 130 70 - 130 0.00398 RL 0.00398	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit Unit	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solid 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: EH @SUR ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	C Compounds (<0.00199	Qualifier U U U U Qualifier Qualifier U O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00199 0.00199 0.00398 0.00398 0.00398 Limits 70 - 130 70 - 130 0.00398 RL 0.00398	MDL MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit Unit	<u>D</u>	Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared	Analyzed 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56 03/23/22 23:56	2098-3 x: Solic Dil Fac

<50.0 U 50.0 03/18/22 08:50 03/18/22 18:56 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-3

Lab Sample ID: 890-2098-4

Client Sample ID: EH @SURFACE

Client: Etech Environmental & Safety Solutions

Date Collected:	03/17/22 00:00
Date Received:	03/17/22 13:27

Project/Site: Bonanza 22-15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	88.9		50.0		mg/Kg		03/18/22 08:50	03/18/22 18:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/22 08:50	03/18/22 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/18/22 08:50	03/18/22 18:56	1
o-Terphenyl	116		70 _ 130				03/18/22 08:50	03/18/22 18:56	1

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.4	4.98	mg/Kg			03/30/22 05:30	1

Client Sample ID: EH @1

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 00:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 00:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 00:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/23/22 13:50	03/24/22 00:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 00:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/23/22 13:50	03/24/22 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/23/22 13:50	03/24/22 00:16	1
1,4-Difluorobenzene (Surr)	113		70 - 130				03/23/22 13:50	03/24/22 00:16	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/24/22 16:42	1
Method: 8015 NM - Diesel Range Analyte		<mark>O) (GC)</mark> Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.8		50.0		mg/Kg			03/21/22 09:51	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/22 08:50	03/18/22 19:17	1
Diesel Range Organics (Over C10-C28)	78.8		50.0		mg/Kg		03/18/22 08:50	03/18/22 19:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/22 08:50	03/18/22 19:17	1
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate							03/18/22 08:50	03/18/22 19:17	1
	86		70 - 130					00/10/22 10.11	1
1-Chlorooctane			70 ₋ 130 70 ₋ 130				03/18/22 08:50	03/18/22 19:17	1
1-Chlorooctane o-Terphenyl	86 103	Soluble							
Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte	86 103 Somatography -	Soluble Qualifier		MDL	Unit	D			

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Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: SH @ SURFACE Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/22 13:50	03/24/22 00:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/22 13:50	03/24/22 00:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/22 13:50	03/24/22 00:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/23/22 13:50	03/24/22 00:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/22 13:50	03/24/22 00:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/23/22 13:50	03/24/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				03/23/22 13:50	03/24/22 00:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/23/22 13:50	03/24/22 00:36	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/24/22 16:42	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.0		49.9		mg/Kg			03/21/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/22 08:50	03/18/22 19:38	1
Diesel Range Organics (Over C10-C28)	73.0		49.9		mg/Kg		03/18/22 08:50	03/18/22 19:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/22 08:50	03/18/22 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/18/22 08:50	03/18/22 19:38	1
o-Terphenyl	108		70 - 130				03/18/22 08:50	03/18/22 19:38	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.3		4.99		mg/Kg			03/30/22 06:05	1
lient Sample ID: SH @ 1							Lab Sar	nple ID: 890-2	2098-6

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/24/22 00:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/24/22 00:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/24/22 00:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/22 13:50	03/24/22 00:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/22 13:50	03/24/22 00:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/22 13:50	03/24/22 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/23/22 13:50	03/24/22 00:57	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/23/22 13:50	03/24/22 00:57	1

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Page 56 of 140

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-5

Matrix: Solid

4 5

Client Sample Results

lient Sample ID: SH @ 1							l ah San	nple ID: 890-	2008-0
ate Collected: 03/17/22 00:00							Lab Sal		x: Soli
ate Conected: 03/17/22 00:00								watri	x: 5010
ample Depth: 1									
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/22 16:42	
Method: 8015 NM - Diesel Range	Organics (DR								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.8		mg/Kg			03/21/22 09:51	
otal IFII	115		40.0		mg/rtg			00/21/22 00:01	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/18/22 08:50	03/18/22 19:58	
GRO)-C6-C10									
Diesel Range Organics (Over	115		49.8		mg/Kg		03/18/22 08:50	03/18/22 19:58	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/22 08:50	03/18/22 19:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Chlorooctane			70 - 130				03/18/22 08:50	03/18/22 19:58	
-Terphenyl	106		70 - 130				03/18/22 08:50	03/18/22 19:58	
lethod: 300.0 - Anions, Ion Chr nalyte	omatography -	Soluble Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 03/30/22 06:14	Dil F
Method: 300.0 - Anions, Ion Chro Analyte Chloride	omatography - Result 21.6		RL	MDL		<u>D</u>	Prepared	Analyzed	
Method: 300.0 - Anions, Ion Chr Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00	omatography - Result 21.6		RL	MDL		<u> </u>	Prepared	Analyzed 03/30/22 06:14 nple ID: 890-	2098-
Method: 300.0 - Anions, Ion Chra Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27	omatography - <u>Result</u> 21.6 RFACE	Qualifier	RL	MDL		D	Prepared	Analyzed 03/30/22 06:14 nple ID: 890-	2098-
Method: 300.0 - Anions, Ion Chranalyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organia	omatography - <u>Result</u> 21.6 RFACE c Compounds (Qualifier	RL			D	Prepared	Analyzed 03/30/22 06:14 nple ID: 890-	2098- x: Soli
Method: 300.0 - Anions, Ion Chro Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Malyte	omatography - <u>Result</u> 21.6 RFACE c Compounds (Qualifier (GC)	RL		mg/Kg		Prepared Lab San	Analyzed 03/30/22 06:14 nple ID: 890- Matri	2098- x: Soli
Method: 300.0 - Anions, Ion Chra Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene	omatography - Result 21.6 RFACE	Qualifier (GC)			mg/Kg		Prepared Lab San	Analyzed 03/30/22 06:14 nple ID: 890- Matri Analyzed	2098- x: Soli
Method: 300.0 - Anions, Ion Chro Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Foluene	omatography - Result 21.6 RFACE c Compounds (Result 0.00230	Qualifier (GC) Qualifier	<u></u>		Unit mg/Kg		Prepared Lab San Prepared 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri Analyzed 03/24/22 01:17	2098- x: Soli
Method: 300.0 - Anions, Ion Chro Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Foluene Ethylbenzene	omatography - Result 21.6 RFACE c Compounds (Result 0.00230 0.00275	Qualifier (GC) Qualifier	RL 5.00		Unit mg/Kg mg/Kg mg/Kg		Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17	2098- x: Soli
Method: 300.0 - Anions, Ion Chra Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene	omatography - Result 21.6 RFACE c Compounds (Result 0.00230 0.00275 <0.00200	Qualifier (GC) Qualifier U U	RL 5.00 RL 0.00200 0.00200 0.00200		Unit mg/Kg mg/Kg mg/Kg		Prepared Lab San 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chr Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00	omatography - <u>Result</u> 21.6 RFACE c Compounds (<u>Result</u> 0.00230 0.00275 <0.00200 <0.00400	Qualifier (GC) Qualifier U U U	RL 5.00 RL 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00400		Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared Lab San 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chra Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	omatography - <u>Result</u> 21.6 RFACE c Compounds (<u>Result</u> 0.00230 0.00275 <0.00200 <0.00400 <0.00200	Qualifier (GC) Qualifier U U U U U	RL 5.00 RL 0.00200 0.00200 0.00200 0.00200 0.00400 0.00200		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared Lab San 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chranalyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene b-Xylene Kylenes, Total	omatography - <u>Result</u> 21.6 RFACE c Compounds (<u>Result</u> 0.00230 0.00275 <0.00200 <0.00400 <0.00400	Qualifier (GC) Qualifier U U U U U	RL 5.00 RL 0.00200 0.00200 0.00200 0.00200 0.00400 0.00200 0.00200 0.00200 0.00400 0.00400		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared Lab San 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chranalyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organia Analyte Benzene Foluene Ethylbenzene n-Xylene & p-Xylene b-Xylene Kylenes, Total Surrogate t-Bromofluorobenzene (Surr)	omatography - <u>Result</u> 21.6 RFACE c Compounds (<u>Result</u> 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 <%Recovery	Qualifier (GC) Qualifier U U U U U Qualifier	RL 5.00 RL 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00400 Limits		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chra Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene b-Xylene & p-Xylene cylenes, Total Surrogate I-Bromofluorobenzene (Surr) d-Difluorobenzene (Surr)	omatography - Result 21.6 RFACE c Compounds (Result 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 %Recovery 106 112	Qualifier (GC) Qualifier U U U U U Qualifier	RL 5.00 RL 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00400 Limits 70 - 130		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chranalyte Chloride Method: Sample ID: WH@ SUF Atte Collected: 03/17/22 00:00 Atte Received: 03/17/22 13:27 Method: 8021B - Volatile Organia malyte Senzene Toluene Ethylbenzene n-Xylene & p-Xylene -Xylene & p-Xylene (Sylenes, Total Surrogate -Bromofluorobenzene (Surr) A-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX	omatography - Result 21.6 RFACE c Compounds (Result 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 0.00200 <0.00400 20.00400 0.00200 <0.00400 XRecovery 106 112 X Calculation	Qualifier (GC) Qualifier U U U U U Qualifier	RL 5.00 8.000 0.00200 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 1.00400 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	x: Soli Dil Fa
Aethod: 300.0 - Anions, Ion Chrunalyte Schloride ient Sample ID: WH@ SUF ite Collected: 03/17/22 00:00 ite Received: 03/17/22 13:27 Aethod: 8021B - Volatile Organic nalyte Senzene Soluene Schluene	omatography - Result 21.6 RFACE c Compounds (Result 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 %Recovery 106 112 X Calculation Result	Qualifier (GC) Qualifier U U U U U Qualifier	RL 5.00 8 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 Limits 70 - 130 RL	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 Prepared 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chranalyte Chloride Method: Sample ID: WH@ SUF Atte Collected: 03/17/22 00:00 Atte Received: 03/17/22 13:27 Method: 8021B - Volatile Organia malyte Senzene Toluene Ethylbenzene n-Xylene & p-Xylene -Xylene & p-Xylene (ylenes, Total Surrogate -Bromofluorobenzene (Surr) A-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX malyte Total BTEX	omatography - Result 21.6 RFACE C Compounds (Result 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 %Recovery 106 112 X Calculation Result 0.00505	Qualifier Qualifier U U U Qualifier Qualifier	RL 5.00 8.000 0.00200 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 1.00400 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 Analyzed	2098- x: Soli Dil Fa
Aethod: 300.0 - Anions, Ion Chro analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Aethod: 8021B - Volatile Organio analyte Benzene Foluene Ethylbenzene Xylene & p-Xylene Xylene & p-Xylene Xylene & p-Xylene (Surrogate Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX analyte Fotal BTEX Method: 8015 NM - Diesel Range	omatography - <u>Result</u> 21.6 RFACE c Compounds (<u>Result</u> 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 %Recovery 106 112 X Calculation <u>Result</u> 0.00505 e Organics (DR	Qualifier (GC) Qualifier U U U U Qualifier Qualifier	RL 5.00 RL 0.00200 0.00200 0.00200 0.00200 0.00200 0.00400 0.00400 Limits 70 - 130 70 - 130 0.00400	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17	2098- x: Soli Dil Fa
Method: 300.0 - Anions, Ion Chra Analyte Chloride lient Sample ID: WH@ SUF ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organic Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene b-Xylene Kylenes, Total	omatography - <u>Result</u> 21.6 RFACE c Compounds (<u>Result</u> 0.00230 0.00275 <0.00200 <0.00400 <0.00400 <0.00400 %Recovery 106 112 X Calculation <u>Result</u> 0.00505 e Organics (DR	Qualifier Qualifier U U U Qualifier Qualifier	RL 5.00 8 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 Limits 70 - 130 RL	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared Lab San Prepared 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50 03/23/22 13:50	Analyzed 03/30/22 06:14 nple ID: 890- Matri 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 03/24/22 01:17 Analyzed	2098- x: Soli Dil Fa

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 50.0 Gasoline Range Organics <50.0 U 03/18/22 08:50 03/18/22 20:19 mg/Kg 1 (GRO)-C6-C10

Eurofins Carlsbad

3/30/2022

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-7

Lab Sample ID: 890-2098-8

Client Sample ID: WH@ SURFACE

Client: Etech Environmental & Safety Solutions

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over	77.3		50.0		mg/Kg		03/18/22 08:50	03/18/22 20:19	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/22 08:50	03/18/22 20:19	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130				03/18/22 08:50	03/18/22 20:19	
o-Terphenyl	104		70 - 130				03/18/22 08:50	03/18/22 20:19	

Analyte	Resul	t Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.		4.98		mg/Kg			03/30/22 06:23	1

Client Sample ID: WH @1

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 01:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 01:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 01:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/23/22 13:50	03/24/22 01:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/22 13:50	03/24/22 01:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/23/22 13:50	03/24/22 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/23/22 13:50	03/24/22 01:38	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/23/22 13:50	03/24/22 01:38	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/24/22 16:42	1
Method: 8015 NM - Diesel Range	organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH			RL 49.9	MDL	Unit mg/Kg	D	Prepared	Analyzed 03/21/22 09:51	Dil Fac
Analyte	Result 112	Qualifier		MDL		D	Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	ge Organics (D	Qualifier				D	Prepared		Dil Fac 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier RO) (GC) Qualifier	49.9		mg/Kg		<u>.</u>	03/21/22 09:51	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result	Qualifier RO) (GC) Qualifier	49.9 RL		mg/Kg Unit		Prepared	03/21/22 09:51	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 19:10	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D) Result Result <49.9 112	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/22 17:03 03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 19:10 03/19/22 19:10	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result ge Organics (D) Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/22 17:03 03/18/22 17:03 03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 19:10 03/19/22 19:10 03/19/22 19:10	1 Dil Fac 1 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result ge Organics (D) Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/22 17:03 03/18/22 17:03 03/18/22 17:03 03/18/22 17:03 Prepared	03/21/22 09:51 Analyzed 03/19/22 19:10 03/19/22 19:10 03/19/22 19:10 Analyzed	1 Dil Fac 1 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result ge Organics (D) Result <49.9	Qualifier RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 <u>Limits</u> 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/22 17:03 03/18/22 17:03 03/18/22 17:03 Prepared 03/18/22 17:03	Analyzed 03/21/22 09:51 Analyzed 03/19/22 19:10 03/19/22 19:10 03/19/22 19:10 Analyzed 03/19/22 19:10	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1

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Matrix: Solid

Matrix: Solid

5

Chloride

4.97

mg/Kg

19.4

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		_
890-2098-1	NH @ SURFACE	110	111		
390-2098-1 MS	NH @ SURFACE	101	110		
890-2098-1 MSD	NH @ SURFACE	101	111		- 5
890-2098-2	NH @1	105	110		
390-2098-3	EH @SURFACE	107	101		
890-2098-4	EH @1	110	113		
890-2098-5	SH @ SURFACE	96	94		
890-2098-6	SH @ 1	108	111		
890-2098-7	WH@ SURFACE	106	112		
890-2098-8	WH @1	108	111		
LCS 880-22141/1-A	Lab Control Sample	103	110		
LCSD 880-22141/2-A	Lab Control Sample Dup	101	110		
MB 880-21854/5-B	Method Blank	103	104		
MB 880-22141/5-A	Method Blank	103	104		
Sumo note Lanand					
Surrogate Legend					
BFB = 4-Bromofluorobe					
DFBZ = 1,4-Difluoroben	zene (Surr)				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

_				Percent Surroga
		1CO1	OTPH1	-
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12547-A-1-B MS	Matrix Spike	100	107	
880-12547-A-1-C MSD	Matrix Spike Duplicate	99	108	
890-2098-1	NH @ SURFACE	92	110	
890-2098-2	NH @1	95	112	
890-2098-3	EH @SURFACE	99	116	
890-2098-4	EH @1	86	103	
890-2098-5	SH @ SURFACE	91	108	
890-2098-6	SH @ 1	88	106	
890-2098-7	WH@ SURFACE	88	104	
890-2098-8	WH @1	110	108	
890-2099-A-1-D MS	Matrix Spike	193 S1+	340 S1+	
890-2099-A-1-E MSD	Matrix Spike Duplicate	187 S1+	327 S1+	
LCS 880-21924/2-A	Lab Control Sample	111	113	
LCSD 880-21924/3-A	Lab Control Sample Dup	95	94	
MB 880-21924/1-A	Method Blank	98	101	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits
		1CO2	OTPH2	
o Sample ID	Client Sample ID	(70-130)	(70-130)	
S 880-21849/2-A	Lab Control Sample	119	143 S1+	
SD 880-21849/3-A	Lab Control Sample Dup	115	141 S1+	
B 880-21849/1-A	Method Blank	113	152 S1+	
Surrogate Legend				
100 = 1-Chlorooctane				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Page 60 of 140

Job ID: 890-2098-1 SDG: Rural Eddy County NM

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Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8021B - Volatile Organic Compounds (GC)

 Lab Sample ID: MB 880-21854/5-I	В									Client Sa	mple ID: Meth	od Blank
Matrix: Solid											Prep Type:	
Analysis Batch: 22183											Prep Bato	
	МВ	МВ										
Analyte	Result	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg		_	03/2	3/22 07:30	03/23/22 11:59	1
Toluene	<0.00200	U	0.00200			mg/Kg			03/2	3/22 07:30	03/23/22 11:59	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg			03/2	3/22 07:30	03/23/22 11:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg			03/2	3/22 07:30	03/23/22 11:59	1
o-Xylene	<0.00200	U	0.00200			mg/Kg			03/2	3/22 07:30	03/23/22 11:59	1
Xylenes, Total	<0.00400		0.00400			mg/Kg			03/2	3/22 07:30	03/23/22 11:59	1
						0 0						
	MB											
Surrogate	%Recovery	Qualifier	Limits							repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130							3/22 07:30	03/23/22 11:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130						03/2	3/22 07:30	03/23/22 11:59	1
 Lab Sample ID: MB 880-22141/5-/	^									Client Sa	mple ID: Meth	od Blank
Matrix: Solid											Prep Type:	
Analysis Batch: 22183											Prep Bate	
Analysis Batch. 22105	МВ	МВ									Fiep Date	
Analyte		Qualifier	RL		мпі	Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200			mg/Kg		-		3/22 13:50	03/23/22 22:53	1
Toluene	<0.00200		0.00200			mg/Kg				3/22 13:50	03/23/22 22:53	1
Ethylbenzene	<0.00200		0.00200			mg/Kg				3/22 13:50	03/23/22 22:53	1
m-Xylene & p-Xylene	< 0.00400		0.00400			mg/Kg				3/22 13:50	03/23/22 22:53	
o-Xylene	< 0.00200		0.00200			mg/Kg				3/22 13:50	03/23/22 22:53	1
Xylenes, Total	< 0.00200		0.00200			mg/Kg				3/22 13:50	03/23/22 22:53	1
	-0.00+00	0	0.00400			iiig/itg			00/2	0/22 10.00	00/20/22 22:00	1
	MB	МВ										
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130						03/2	3/22 13:50	03/23/22 22:53	1
1,4-Difluorobenzene (Surr)	104		70 - 130						03/2	3/22 13:50	03/23/22 22:53	1
	•							~	liont	Sample	ID: Lab Contro	I Sampla
Matrix: Solid	-A								ment	Sample	Prep Type:	
Analysis Batch: 22183			Spike	LCS	LCS						Prep Bato %Rec.	11. 22141
Analyta			Spike Added	Result			Unit		D	%Rec	Limits	
Analyte					Qua	inter						
Benzene			0.100	0.09514			mg/Kg			95	70 <u>-</u> 130	
Toluene			0.100	0.09412			mg/Kg			94	70 - 130	
Ethylbenzene			0.100	0.09619			mg/Kg			96	70 - 130	
m-Xylene & p-Xylene			0.200	0.1977			mg/Kg			99	70 - 130	
o-Xylene			0.100	0.1012			mg/Kg			101	70 - 130	
	LCS LCS	;										
Surrogate	%Recovery Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	103		70 - 130									
1,4-Difluorobenzene (Surr)	110		70 - 130									
_												
Lab Sample ID: LCSD 880-22141/	2-A						Cli	ent	Sam	ple ID: L	ab Control Sar	
Matrix: Solid											Prep Type:	
Analysis Batch: 22183											Prep Bato	
			Spike	LCSD							%Rec.	RPD
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits RF	D Limit

5

7

Job ID: 890-2098-1 SDG: Rural Eddy County NM

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6

Benzene

0.09001

mg/Kg

90

70 - 130

0.100

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

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

Lab Sample ID: LCSD 880-22	2141/2-A					Clier	nt Sam	n <mark>ple ID:</mark> I	Lab Contro		
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 22183									Prep	Batch:	2214
			Spike	LCSD	LCSD				%Rec.		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Toluene			0.100	0.08892		mg/Kg		89	70 - 130	6	3
Ethylbenzene			0.100	0.09086		mg/Kg		91	70 - 130	6	3
m-Xylene & p-Xylene			0.200	0.1872		mg/Kg		94	70 - 130	5	3
o-Xylene			0.100	0.09392		mg/Kg		94	70 - 130	7	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	110		70 - 130								
Lab Sample ID: 890-2098-1 N	NS						CI	ient San	nple ID: NH	-	
Matrix: Solid										ype: To	
Analysis Batch: 22183	<u> </u>	. .								Batch:	2214
		Sample	Spike	MS	MS		_	~ -	%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199		0.100	0.08985		mg/Kg		89	70 - 130		
oluene	<0.00199		0.100	0.08664		mg/Kg		85	70 - 130		
Ethylbenzene	<0.00199		0.100	0.08545		mg/Kg		85	70 - 130		
n-Xylene & p-Xylene	<0.00398	U	0.200	0.1746		mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U	0.100	0.08938		mg/Kg		89	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	110		70 - 130								
Lab Sample ID: 890-2098-1 N	ISD						CI	ient San	nple ID: NH		FAC
Matrix: Solid										ype: To	
Analysis Batch: 22183										Batch:	
·····, ··· ··· ··· ··· ··· ···	Sample	Sample	Spike	MSD	MSD				%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	<0.00199		0.0990	0.09469		mg/Kg		95	70 - 130	5	3
oluene	<0.00199		0.0990	0.09404		mg/Kg		94	70 - 130	8	3
Ethylbenzene	<0.00199		0.0990	0.09629		mg/Kg		97	70 - 130	12	3
n-Xylene & p-Xylene	<0.00398		0.198	0.1984		mg/Kg		99	70 - 130	13	
p-Xylene	<0.00199		0.0990	0.1001		mg/Kg		101	70 - 130	11	:
						5.5					
		MSD									
Surrogate	%Recovery	Qualifier	Limits								
	101		70 - 130								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	111		70 - 130								

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(GRO)-C6-C10

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-21849 Matrix: Solid	'1-A									Client Sa	mple ID: I Prep T		d Blank otal/NA
Analysis Batch: 21864													: 21849
		ИВ МВ											
Analyte		ult Qualifier	RL		MDL	Unit		D	Р	repared	Analyz	ed	Dil Fac
Diesel Range Organics (Over		0.0 U				mg/Kg		_		8/22 08:50	03/18/22		1
C10-C28)							5						
Oll Range Organics (Over C28-C36)	<50	0.0 U	50.0			mg/K	g		03/1	8/22 08:50	03/18/22	11:39	1
		MB MB							_				
Surrogate	%Recove	<u> </u>	Limits							repared	Analyz		Dil Fac
1-Chlorooctane		13	70 - 130							8/22 08:50	03/18/22		1
o-Terphenyl	1	52 S1+	70 - 130						03/1	8/22 08:50	03/18/22	11:39	1
Lab Sample ID: LCS 880-21849	A/2-A							С	liont	Sample	ID: Lab Co	ontrol	Sample
Matrix: Solid	/2-A								nem	Jampie			otal/NA
Analysis Batch: 21864													: 21849
Analysis Batch. 21004			Spike	LCS	LCS						%Rec.	Daton	. 21043
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	1039	Qud		mg/Kg		_		70 - 130		
(GRO)-C6-C10			1000	1039			mynxy			104	10 - 130		
Diesel Range Organics (Over			1000	1133			mg/Kg			113	70 - 130		
C10-C28)							0 0						
	LCS L	<u>^</u>											
Surrogate		Qualifier	Limits										
1-Chlorooctane			70 - 130										
o-Terphenyl	143 S	21+	70 - 130										
Matrix: Solid Analysis Batch: 21864			Spike	LCSD	109	п					Prep T Prep %Rec.		: 2184 RPI
Analyte			Added	Result			Unit		D	%Rec	Limits	RPD	
Gasoline Range Organics			1000	1006	Guu		mg/Kg		_	101	70 - 130	3	
(GRO)-C6-C10			1000								10 100		
Diesel Range Organics (Over			1000	1086			mg/Kg			109	70 - 130	4	20
C10-C28)													
	LCSD L	CSD											
Surrogate	%Recovery G		Limits										
1-Chlorooctane	115		70 - 130										
o-Terphenyl	141 S	51+	70 - 130										
	D 110									0			•
Lab Sample ID: 880-12547-A-1	-R M2									Client S	Sample ID		
Matrix: Solid													otal/NA
Analysis Batch: 21864	• · -	I-	0 11-									Batch	: 21849
Analysis	Sample S	-	Spike		MS	1141 a	1 lm !4		~	0/ D = -	%Rec.		
Analyte	Result C		Added	Result		iifier	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8 L		998	1354	Γï		mg/Kg			134	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8 L	JF1	998	1381	F1		mg/Kg			134	70 - 130		
	MS N	19											
Surrogate		ns Qualifier	Limits										
1-Chlorooctane			70 - 130										
	100												

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o-Terphenyl

107

70 - 130

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Job ID: 890-2098-1

Page 64 of 140

SDG: Rural Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

											Prep Ty	ype: To	tal/N
Analysis Batch: 21864												Batch:	
-	Sample	Sam	ple	Spike	MSD	MSD					%Rec.		RP
Analyte	Result	Qua	lifier	Added	Result	Qualif	ier Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<49.8	U F1		999	1358	F1	mg/Kg			134	70 - 130	0	2
GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)	<49.8	U F1		999	1392	F1	mg/Kg			135	70 - 130	1	
	MSD	MSE)										
Surrogate	%Recovery	Qua	lifier	Limits									
1-Chlorooctane	99			70 - 130									
p-Terphenyl	108			70 - 130									
Lab Sample ID: MB 880-21924	1/1_0									Client Sa	ample ID: N	/ethod	Blar
Matrix: Solid	" A										Prep Ty		
Analysis Batch: 21941												Batch:	
-mary 515 Daten. 21341		MR	мв								Fieb		2134
Analyte	Б		Qualifier	F	8L	MDL	Init	D	D-	repared	Analyze	d	Dil F
Analyte Gasoline Range Organics		<50.0		 50						B/22 17:03	03/19/22 1		
GRO)-C6-C10	<	-50.0	0	50	.0	1	mg/Kg		03/18	5122 11.03	03/19/22 1	1.50	
Diesel Range Organics (Over C10-C28)	<	\$50.0	U	50	.0	I	mg/Kg		03/18	8/22 17:03	03/19/22 1	1:36	
Oll Range Organics (Over C28-C36)	<	<50.0	U	50	.0		mg/Kg		03/18	8/22 17:03	03/19/22 1	1:36	
		ΜВ	МВ										
Surrogate	%Reco	overy	Qualifier	Limits					Pi	repared	Analyze	ed	Dil F
1-Chlorooctane		98		70 - 130					03/18	8/22 17:03	03/19/22 1	1:36	
p-Terphenyl		101		70 - 130					03/18	8/22 17:03	03/19/22 1	1:36	
Lab Sample ID: LCS 880-2192	04/2-∆							6	lient	Sample	ID: Lab Co	ntrol S	amn
Matrix: Solid										oumpio	Prep Ty		
Analysis Batch: 21941												Batch:	
Analysis Baton. 21041				Spike	LCS	LCS					%Rec.	Baten.	210
				Added		Qualif	ier Unit		D	%Rec	Limits		
Analyte					830.9		mg/Kg			83	70 - 130		
Analyte													
Gasoline Range Organics				1000	000.0								
				1000	1109		mg/Kg			111	70 ₋ 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	LCS	LCS					mg/Kg			111	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCS %Recovery			1000			mg/Kg			111	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over							mg/Kg			111	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery			1000 Limits			mg/Kg			111	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	%Recovery 111 113			1000 <i>Limits</i> 70 - 130									
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-219	%Recovery 111 113			1000 <i>Limits</i> 70 - 130				lient	Sam		ab Control		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-219 Matrix: Solid	%Recovery 111 113			1000 <i>Limits</i> 70 - 130				lient	Sam		ab Control Prep Ty	ype: To	tal/N
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-219	%Recovery 111 113			1000 Limits 70 - 130 70 - 130	1109		С	lient	Sam		ab Control Prep Ty Prep		tal/N 2192
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-219 Matrix: Solid Analysis Batch: 21941	%Recovery 111 113			1000 <i>Limits</i> 70 - 130 70 - 130 Spike	1109 LCSD	LCSD	с	lient		ple ID: L	ab Control Prep Ty Prep %Rec.	ype: To Batch:	tal/N 2192 RF
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-219 Matrix: Solid Analysis Batch: 21941 Analyte	%Recovery 111 113			1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	1109 LCSD Result	Qualif	C	lient	: Sam	ple ID: L	ab Control Prep Ty Prep %Rec. Limits	ype: To Batch: RPD	tal/N 219
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-219 Matrix: Solid Analysis Batch: 21941	%Recovery 111 113			1000 <i>Limits</i> 70 - 130 70 - 130 Spike	1109 LCSD	Qualif	с	lient		ple ID: L	ab Control Prep Ty Prep %Rec.	ype: To Batch:	tal/N 219 R Lii

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Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

Page 65 of 140

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-2 Matrix: Solid	21924/3-A					Cli	ent Sa	mple ID		Type: To	otal/N/
Analysis Batch: 21941									Pre	p Batch	: 21924
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	94		70 - 130								
Lab Sample ID: 890-2099-A	-1-D MS							Clie	nt Sample II): Matrix	c Spike
Matrix: Solid										Type: To	-
Analysis Batch: 21941										p Batch	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	-	Qualifier	Added		Qualifier	Unit) %Rec			
Gasoline Range Organics GRO)-C6-C10	5620		998	7016		mg/Kg		140		·	
	MS	MS									
Surrogate	%Recovery		Limits								
I-Chlorooctane			70 - 130								
p-Terphenyl		S1+	70 - 130								
_ab Sample ID: 890-2099-A	-1-E MSD						Client	Sample	ID: Matrix S	pike Du	plicat
Aatrix: Solid										Type: To	
Analysis Batch: 21941										p Batch	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RP
nalyte		Qualifier	Added		Qualifier	Unit) %Rec		RPD	Lim
Gasoline Range Organics GRO)-C6-C10	5620		999	6564		mg/Kg		95		7	2
,	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane		S1+	70 - 130								
p-Terphenyl	327	S1+	70 - 130								
ethod: 300.0 - Anions,	Ion Chromat	ography									
ab Sample ID: MB 880-220)34/1-A							Client	Sample ID:	Method	l Blan
Aatrix: Solid									Prep	Type: S	Solub
Analysis Batch: 22387											
		MB MB									
Analyte	R	esult Qualifier		RL	MDL Unit	t	D	Prepared	Analy	zed	Dil Fa
Chloride		<5.00 U		5.00	mg/	Kg			03/30/22	2 05:03	
							Clio	nt Samr	ole ID: Lab C	ontrol S	Sampl
	2034/2-A						Cile	ni oump			
ab Sample ID: LCS 880-22	2034/2-A						Cile	in ouring	Prep	Type: S	Solubl
.ab Sample ID: LCS 880-22 Matrix: Solid	2034/2-A						Cile	in ouring	Prep	Type: S	Solubl
₋ab Sample ID: LCS 880-22 Matrix: Solid	2034/2-A		Spike	LCS	LCS		Olle		Prep %Rec.	o Type: S	Solubl
.ab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 22387	2034/2-A		Spike Added		LCS Qualifier	Unit	Che	-	%Rec.	o Type: S	Solubl
ab Sample ID: LCS 880-22 /atrix: Solid Analysis Batch: 22387	2034/2-A 		-			<mark>Unit</mark> mg/Kg		-	%Rec. Limits	• Type: \$	Solubl
Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 22387 Analyte Chloride			Added	Result		mg/Kg	<u>[</u>	0 %Rec 99	%Rec. Limits		
Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 22387 Analyte Chloride Lab Sample ID: LCSD 880-2			Added	Result		mg/Kg	<u>[</u>	0 %Rec 99	%Rec. Limits 90 - 110		ole Du
Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 22387 Analyte Chloride Lab Sample ID: LCSD 880-2 Matrix: Solid			Added	Result		mg/Kg	<u>[</u>	0 %Rec 99	%Rec. Limits 90 - 110	ol Samp	ole Du
Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 22387 Analyte Chloride Lab Sample ID: LCSD 880-2 Matrix: Solid Analysis Batch: 22387			Added	Result 247.5		mg/Kg	<u>[</u>	0 %Rec 99	%Rec. Limits 90 - 110	ol Samp	
Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 22387 Analyte Chloride Lab Sample ID: LCSD 880-2 Matrix: Solid			Added 250	Result 247.5 LCSD	Qualifier	mg/Kg	<u>[</u>	99 %Rec 99	%Rec. Limits 90 - 110 : Lab Contr Prep %Rec.	ol Samp	ole Du Solubl

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Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2098-3 MS								Client Sa	Imple ID: El	-	
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 22387											
	Sample	Sample	Spike	M	6 MS				%Rec.		
Analyte	Result	Qualifier	Added	Resu	t Qualifier	Unit	D	%Rec	Limits		
Chloride	34.4		249	290.	7	mg/Kg		103	90 - 110		
Lab Sample ID: 890-2098-3 MSD								Client Sa	mple ID: El	H @SUR	FACE
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 22387											
-	Sample	Sample	Spike	MSI	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Resu	t Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	34.4		249	290.	3	mg/Kg		103	90 - 110	0	20
Lab Sample ID: MB 880-22475/1-4	`							Client	Sample ID:	Method	Blank
Matrix: Solid	•							onone		Type: S	
Analysis Batch: 22476									гіер	Type. 5	oluble
Analysis Batch. 22470		MB MB									
Anglista				ы			_	Dueneued	Analyz		
Analyte		esult Qualifier		RL	MDL Unit		D	Prepared	Analyz		Dil Fac
Chloride	<	<5.00 U		5.00	mg/K	g			03/28/22	15:06	1
Lab Sample ID: LCS 880-22475/2-	A						Clie	nt Sample	e ID: Lab Co	ontrol S	ample
Matrix: Solid										Type: S	
Analysis Batch: 22476											
			Spike	LC	S LCS				%Rec.		
Analyte			Added	Resu	t Qualifier	Unit	D	%Rec	Limits		
Chloride			250	246.	0	mg/Kg		98	90 - 110		
	2 A					Cliv	nt Co		Lob Contro	l Compl	o Dun
Lab Sample ID: LCSD 880-22475/	3-A					Cite	in Sa	inple iD.	Lab Contro		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 22476									~-		
			Spike		D LCSD		_		%Rec.		RPD
Analyte			Added		t Qualifier	Unit	D		Limits	RPD	Limit
Chloride			250	246.	2	mg/Kg		98	90 - 110	0	20
Lab Sample ID: 890-2141-A-1-C N	IS							Client	t Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 22476											
	Sample	Sample	Spike	M	6 MS				%Rec.		
Analyte	Result	Qualifier	Added	Resu	t Qualifier	Unit	D	%Rec	Limits		
Chloride	72.0		249	313.	1	mg/Kg		97	90 - 110		
Lab Sample ID: 890-2141-A-1-D N	ISD					C	lient	Sample II	D: Matrix S	nike Dur	olicate
Matrix: Solid										Type: S	
Analysis Batch: 22476									Fieh	iype. S	Siuble
Analysis Dalun. 224/0	Sample	Sample	Spike	Me	MSD				%Rec.		RPD
Analyte	-	Qualifier	Added		t Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	72.0		249	313.	2	mg/Kg		97	90 _ 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Job ID: 890-2098-1 SDG: Rural Eddy County NM

GC VOA

Prep Batch: 21854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21854/5-B	Method Blank	Total/NA	Solid	5035	
rep Batch: 22141					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-1	NH @ SURFACE	Total/NA	Solid	5035	
890-2098-2	NH @1	Total/NA	Solid	5035	
890-2098-3	EH @SURFACE	Total/NA	Solid	5035	
890-2098-4	EH @1	Total/NA	Solid	5035	
890-2098-5	SH @ SURFACE	Total/NA	Solid	5035	
890-2098-6	SH @ 1	Total/NA	Solid	5035	
890-2098-7	WH@ SURFACE	Total/NA	Solid	5035	
890-2098-8	WH @1	Total/NA	Solid	5035	
MB 880-22141/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22141/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22141/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2098-1 MS	NH @ SURFACE	Total/NA	Solid	5035	
890-2098-1 MSD	NH @ SURFACE	Total/NA	Solid	5035	
nalysis Batch: 22183					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-1		Total/NA	Solid	8021B	22141

Analysis Batch: 22183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-1	NH @ SURFACE	Total/NA	Solid	8021B	22141
890-2098-2	NH @1	Total/NA	Solid	8021B	22141
890-2098-3	EH @SURFACE	Total/NA	Solid	8021B	22141
890-2098-4	EH @1	Total/NA	Solid	8021B	22141
890-2098-5	SH @ SURFACE	Total/NA	Solid	8021B	22141
890-2098-6	SH @ 1	Total/NA	Solid	8021B	22141
890-2098-7	WH@ SURFACE	Total/NA	Solid	8021B	22141
890-2098-8	WH @1	Total/NA	Solid	8021B	22141
MB 880-21854/5-B	Method Blank	Total/NA	Solid	8021B	21854
MB 880-22141/5-A	Method Blank	Total/NA	Solid	8021B	22141
LCS 880-22141/1-A	Lab Control Sample	Total/NA	Solid	8021B	22141
LCSD 880-22141/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22141
890-2098-1 MS	NH @ SURFACE	Total/NA	Solid	8021B	22141
890-2098-1 MSD	NH @ SURFACE	Total/NA	Solid	8021B	22141

Analysis Batch: 22308

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2098-1	NH @ SURFACE	Total/NA	Solid	Total BTEX	
890-2098-2	NH @1	Total/NA	Solid	Total BTEX	
890-2098-3	EH @SURFACE	Total/NA	Solid	Total BTEX	
890-2098-4	EH @1	Total/NA	Solid	Total BTEX	
890-2098-5	SH @ SURFACE	Total/NA	Solid	Total BTEX	
890-2098-6	SH @ 1	Total/NA	Solid	Total BTEX	
890-2098-7	WH@ SURFACE	Total/NA	Solid	Total BTEX	
890-2098-8	WH @1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-1	NH @ SURFACE	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

GC Semi VOA (Continued)

Prep Batch: 21849 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-2	NH @1	Total/NA	Solid	8015NM Prep	
890-2098-3	EH @SURFACE	Total/NA	Solid	8015NM Prep	
890-2098-4	EH @1	Total/NA	Solid	8015NM Prep	
890-2098-5	SH @ SURFACE	Total/NA	Solid	8015NM Prep	
890-2098-6	SH @ 1	Total/NA	Solid	8015NM Prep	
890-2098-7	WH@ SURFACE	Total/NA	Solid	8015NM Prep	
MB 880-21849/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21849/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12547-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12547-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2098-1	NH @ SURFACE	Total/NA	Solid	8015B NM	21849	
890-2098-2	NH @1	Total/NA	Solid	8015B NM	21849	
890-2098-3	EH @SURFACE	Total/NA	Solid	8015B NM	21849	
890-2098-4	EH @1	Total/NA	Solid	8015B NM	21849	
890-2098-5	SH @ SURFACE	Total/NA	Solid	8015B NM	21849	
890-2098-6	SH @ 1	Total/NA	Solid	8015B NM	21849	
890-2098-7	WH@ SURFACE	Total/NA	Solid	8015B NM	21849	
MB 880-21849/1-A	Method Blank	Total/NA	Solid	8015B NM	21849	
LCS 880-21849/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21849	
LCSD 880-21849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21849	
880-12547-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21849	
880-12547-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21849	

Prep Batch: 21924

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2098-8	WH @1	Total/NA	Solid	8015NM Prep	
MB 880-21924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2099-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2099-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-8	WH @1	Total/NA	Solid	8015B NM	21924
MB 880-21924/1-A	Method Blank	Total/NA	Solid	8015B NM	21924
LCS 880-21924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21924
LCSD 880-21924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21924
890-2099-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	21924
890-2099-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21924

Analysis Batch: 21999

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2098-1	NH @ SURFACE	Total/NA	Solid	8015 NM	
890-2098-2	NH @1	Total/NA	Solid	8015 NM	
890-2098-3	EH @SURFACE	Total/NA	Solid	8015 NM	
890-2098-4	EH @1	Total/NA	Solid	8015 NM	

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Page 68 of 140

Job ID: 890-2098-1 SDG: Rural Eddy County NM

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

GC Semi VOA (Continued)

Analysis Batch: 21999 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2098-5	SH @ SURFACE	Total/NA	Solid	8015 NM	
890-2098-6	SH @ 1	Total/NA	Solid	8015 NM	
890-2098-7	WH@ SURFACE	Total/NA	Solid	8015 NM	
890-2098-8	WH @1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2098-3	EH @SURFACE	Soluble	Solid	DI Leach	
890-2098-4	EH @1	Soluble	Solid	DI Leach	
890-2098-5	SH @ SURFACE	Soluble	Solid	DI Leach	
890-2098-6	SH @ 1	Soluble	Solid	DI Leach	
890-2098-7	WH@ SURFACE	Soluble	Solid	DI Leach	
890-2098-8	WH @1	Soluble	Solid	DI Leach	
MB 880-22034/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22034/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2098-3 MS	EH @SURFACE	Soluble	Solid	DI Leach	
890-2098-3 MSD	EH @SURFACE	Soluble	Solid	DI Leach	

Analysis Batch: 22387

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2098-3	EH @SURFACE	Soluble	Solid	300.0	22034
890-2098-4	EH @1	Soluble	Solid	300.0	22034
890-2098-5	SH @ SURFACE	Soluble	Solid	300.0	22034
890-2098-6	SH @ 1	Soluble	Solid	300.0	22034
890-2098-7	WH@ SURFACE	Soluble	Solid	300.0	22034
890-2098-8	WH @1	Soluble	Solid	300.0	22034
MB 880-22034/1-A	Method Blank	Soluble	Solid	300.0	22034
LCS 880-22034/2-A	Lab Control Sample	Soluble	Solid	300.0	22034
LCSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22034
890-2098-3 MS	EH @SURFACE	Soluble	Solid	300.0	22034
890-2098-3 MSD	EH @SURFACE	Soluble	Solid	300.0	22034

Leach Batch: 22475

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2098-1	NH @ SURFACE	Soluble	Solid	DI Leach	
890-2098-2	NH @1	Soluble	Solid	DI Leach	
MB 880-22475/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22475/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22475/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2141-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2141-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22476

Lab Sample ID 890-2098-1	Client Sample ID NH @ SURFACE	Prep Type Soluble	_ Matrix Solid	Method	Prep Batch 22475
890-2098-2	NH @1	Soluble	Solid	300.0	22475
MB 880-22475/1-A	Method Blank	Soluble	Solid	300.0	22475
LCS 880-22475/2-A	Lab Control Sample	Soluble	Solid	300.0	22475

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Page 69 of 140

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 22476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22475/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22475
890-2141-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	22475
890-2141-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22475

5 6 7

Initial

Amount

5.03 g

5 mL

10.02 g

5.01 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

22141

22183

22308

21999

21849

21864

22475

22476

Number

Prepared

or Analyzed

03/23/22 13:50

03/23/22 23:14

03/24/22 16:42

03/21/22 09:51

03/18/22 08:50

03/18/22 18:15

03/28/22 11:00

03/28/22 16:26

Prepared

Dil

1

1

1

1

1

Factor

Run

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: NH @ SURFACE Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Batch

Client Sample ID: NH @1

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Prep

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

Batch

8015 NM

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-1 Matrix: Solid

Analyst

KL

KL

AJ

AJ

DM

AJ

СН

СН

Lab

XEN MID

Lab Sample ID: 890-2098-2 Matrix: Solid

Lab Sample ID: 890-2098-3

Lab Sample ID: 890-2098-4

Matrix: Solid

rix: Solia

11 12 13

	Dil	Initial	Final	Batch
Run	Factor	Amount	Amount	Number

Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/23/22 23:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21849	03/18/22 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21864	03/18/22 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22475	03/28/22 11:00	СН	XEN MID
Soluble	Analysis	300.0		1			22476	03/28/22 16:53	CH	XEN MID

Client Sample ID: EH @SURFACE

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/23/22 23:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21849	03/18/22 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21864	03/18/22 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 05:30	СН	XEN MID

Client Sample ID: EH @1 Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 00:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 2/1/2023 3:47:06 PM

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: EH @1 Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21849	03/18/22 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21864	03/18/22 19:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 05:56	СН	XEN MID

Client Sample ID: SH @ SURFACE Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 00:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21849	03/18/22 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21864	03/18/22 19:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 06:05	CH	XEN MID

Client Sample ID: SH @ 1

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 00:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21849	03/18/22 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21864	03/18/22 19:58	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 06:14	СН	XEN MID

Client Sample ID: WH@ SURFACE Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 01:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	21849 21864	03/18/22 08:50 03/18/22 20:19	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Page 72 of 140

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-4 Matrix: Solid

Lab Sample ID: 890-2098-5

11 12 13

Lab Sample ID: 890-2098-6

Lab Sample ID: 890-2098-7

Matrix: Solid

Matrix: Solid

3/30/2022

Matrix: Solid

ID
Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: WH@ SURFACE Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 06:23	СН	XEN MID

Client Sample ID: WH @1 Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 01:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22308	03/24/22 16:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21999	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 06:49	СН	XEN MID

Laboratory References:

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

Job ID: 890-2098-1

SDG: Rural Eddy County NM

Lab Sample ID: 890-2098-8 Matrix: Solid

Lab Sample ID: 890-2098-7 Matrix: Solid

9

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Laboratory: Eurofins Midland

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

thority	Pr	rogram	Identification Number	Expiration Date	
exas		ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report, but	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for wh	
the agency does not of Apalysis Method		Matrix	Analyte		
Analysis Method	fer certification. Prep Method	Matrix	Analyte		
6 ,		Matrix Solid	Analyte Total TPH		

Eurofins Carlsbad

10

Job ID: 890-2098-1 SDG: Rural Eddy County NM

Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

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. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2098-1 SDG: Rural Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-2098-1	NH @ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		-
890-2098-2	NH @1	Solid	03/17/22 00:00	03/17/22 13:27	1	
890-2098-3	EH @SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		5
890-2098-4	EH @1	Solid	03/17/22 00:00	03/17/22 13:27	1	J
890-2098-5	SH @ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		
890-2098-6	SH @ 1	Solid	03/17/22 00:00	03/17/22 13:27	1	
890-2098-7	WH@ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		
890-2098-8	WH @1	Solid	03/17/22 00:00	03/17/22 13:27	1	
						0
						ð
						0
						9
						12
						13



Chain of Custody

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

Work Order No:

Work Order Comments Bill to: (if different) Project Manager: Joel Lowry Plains Program: UST/PST PRF Brownfield RR Superfund Etech Environmental & Safety Company Name: Company Name: State of Project: Address: Address: 3100 Plains Highway Level / Lovington, NM, 88260 City, State ZIP: City, State ZIP: Deliverables: EDD ADaPT Other: Email: Email Results to PM@etechenv.com + Client 575-396-2378 Phone: Bonanza 22-15 **Preservative Codes Turn Around** ANALYSIS REQUEST Project Name: Routine: 🕅 15785 HNO3: HN Project Number: Rural Eddy Co, NM Miguel Ramial Rush: \Box H2S04: H2 Project Location vative HCL: HL Sampler's Name: Due Date: None: NO PO #: ers/Pres SAMPLE RECEIPT Wet Ice: No NaOH: Na Temp Blank: lyes No Yes 4/24.2 24 Thermometer ID MeOH: Me Temperature (°C): WM-007 Contai Received Intact: Yes Zn Acetate+ NaOH: Zn No 890-2098 Chain of Custod Ext .0.2 Yes No NA Correction Factor: Cooler Custody Seals: E300 TAT starts the day receiied by the **TPH Modified TPH TX1005** đ lab, if received by 4:30pm Sample Custody Seals: Yes No \ N/A **Total Containers:** BTEX 8021 Chloride Code Date Time Sample Comments Sample Identification Matrix Depth Sampled Sampled 3/17/20 -NHOSuctace 501 NHQI EHASurface ~ EHQI 11 SHQ Surfue -SH@1' WH C. Surface 17 _ WHON 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Total 200.7 / 6010 200.8 / 6020: 1631 / 245.1 / 7470 / 7471 : Hg TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Relinguished by: (Signature) Date/Time Date/Time Received by: (Signature) Received by: (Signature) Relinquished by: (Signature) 3192213272 111

9:48:19 AM

11/10/2022

OCD:

Received by

3/30/2022

of

Page

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-2098-1

SDG Number: Rural Eddy County NM List Source: Eurofins Carlsbad

Login Number: 2098	
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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 2098

Creator: Rodriguez, Leticia

List Number: 2

Job Number: 890-2098-1

SDG Number: Rural Eddy County NM

SDO Number. Rural Eddy County N	IVI
List Source: Eurofins Midla	nd

List Creation: 03/18/22 11:38 AM

····· 3 ···, ····		
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	

MS/MSDs Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

There is sufficient vol. for all requested analyses, incl. any requested

True

N/A

Received by OCD: 11/10/2022 9:48:19 AM

140 1 2 3 4 5 6 7 8 9 10 11 12

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2099-1

Laboratory Sample Delivery Group: 15785 Client Project/Site: Bonanza 22-15

For:

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

Attn: Joel Lowry

KRAMER

Authorized for release by: 3/30/2022 7:48:22 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 2/1/2023 3:47:06 PM

Laboratory Job ID: 890-2099-1 SDG: 15785

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

Page 82 of 140

cerveu by O	CD. 11/10/2022 7.40.17 AM	1 uge 02 0j 1	40
	Definitions/Glossary		
	Bonanza 22-15 Job I	D: 890-2099-1 SDG: 15785	2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
F2	MS/MSD RPD exceeds control limits		5
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VC	Α		
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.		8
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		0

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	12
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	13
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	

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2099-1 SDG: 15785

Job ID: 890-2099-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2099-1

Receipt

The samples were received on 3/17/2022 1:27 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 24.2°C

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: NDEF1 @ SURFACE (890-2099-1), EDEF1 @ SURFACE (890-2099-3), SDEF1 @ SURFACE (890-2099-5) and WDEF1 @ SURFACE (890-2099-7) at 500.0, 500.0, 500.0 and 500.0. Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: WDEF1 @ SURFACE (890-2099-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: NDEF1 @ SURFACE (890-2099-1), EDEF1 @ SURFACE (890-2099-3), SDEF1 @ SURFACE (890-2099-5), WDEF1 @ SURFACE (890-2099-7), (890-2099-A-1-D MS) and (890-2099-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

4

Job ID: 890-2099-1 SDG: 15785

Client Sample ID: NDEF1 @ SURFACE Date Collected: 03/17/22 00:00

Client: Etech Environmental & Safety Solutions

Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.01	U	1.01		mg/Kg		03/24/22 10:00	03/26/22 08:00	500
Toluene	1.12		1.01		mg/Kg		03/24/22 10:00	03/26/22 08:00	500
Ethylbenzene	<1.01	U	1.01		mg/Kg		03/24/22 10:00	03/26/22 08:00	500
m-Xylene & p-Xylene	4.16		2.01		mg/Kg		03/24/22 10:00	03/26/22 08:00	500
o-Xylene	<1.01	U	1.01		mg/Kg		03/24/22 10:00	03/26/22 08:00	500
Xylenes, Total	4.16		2.01		mg/Kg		03/24/22 10:00	03/26/22 08:00	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				03/24/22 10:00	03/26/22 08:00	500
1,4-Difluorobenzene (Surr)	90		70 - 130				03/24/22 10:00	03/26/22 08:00	500
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.28		2.01		mg/Kg			03/28/22 12:32	1
Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32500		249		mg/Kg			03/21/22 09:51	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5620		49.8		mg/Kg		03/18/22 17:03	03/19/22 12:40	1
Diesel Range Organics (Over C10-C28)	23000		249		mg/Kg		03/18/22 17:03	03/19/22 19:51	5
Oll Range Organics (Over C28-C36)	3910		49.8		mg/Kg		03/18/22 17:03	03/19/22 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	198	S1+	70 - 130				03/18/22 17:03	03/19/22 12:40	1
1-Chlorooctane	207	S1+	70 - 130				03/18/22 17:03	03/19/22 19:51	5
o-Terphenyl	345	S1+	70 - 130				03/18/22 17:03	03/19/22 12:40	1
o-Terphenyl	131	S1+	70 - 130				03/18/22 17:03	03/19/22 19:51	5
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	362		4.95		mg/Kg			03/30/22 11:35	1
lient Sample ID: NDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27	4'						Lab Sar	nple ID: 890- Matri	2099-2 ix: Solid
Method: 8021B - Volatile Organi	c Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00331		0.00199		mg/Kg		03/24/22 10:00	03/26/22 05:36	1

Benzene	0.00331	0.00199	mg/Kg	03/24/22 10:00	03/26/22 05:36	1
Toluene	0.00723	0.00199	mg/Kg	03/24/22 10:00	03/26/22 05:36	1
Ethylbenzene	<0.00199 U	0.00199	mg/Kg	03/24/22 10:00	03/26/22 05:36	1
m-Xylene & p-Xylene	<0.00398 U	0.00398	mg/Kg	03/24/22 10:00	03/26/22 05:36	1
o-Xylene	<0.00199 U	0.00199	mg/Kg	03/24/22 10:00	03/26/22 05:36	1
Xylenes, Total	<0.00398 U	0.00398	mg/Kg	03/24/22 10:00	03/26/22 05:36	1

Client: Etech Environmental & Safety Solutions

Job ID: 890-2099-1 SDG: 15785

Matrix: Solid

5

Lab Sample ID: 890-2099-2

Client Sample ID: NDEF1 @ 4'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
I-Bromofluorobenzene (Surr)	97		70 - 130				03/24/22 10:00	03/26/22 05:36	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/24/22 10:00	03/26/22 05:36	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0105		0.00398		mg/Kg			03/28/22 12:32	
Method: 8015 NM - Diesel Rang	je Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	441		49.9		mg/Kg			03/21/22 09:51	
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/22 17:03	03/19/22 14:48	
Diesel Range Organics (Over	170		49.9		mg/Kg		03/18/22 17:03	03/19/22 14:48	1
C10-C28)									
Oll Range Organics (Over C28-C36)	271		49.9		mg/Kg		03/18/22 17:03	03/19/22 14:48	1
- <i>i</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Surrogate							· · · · · · · · · · · · · · · · · · ·		
			70 - 130				03/18/22 17:03	03/19/22 14:48	
1-Chlorooctane o-Terphenyl	123 114	Soluble	70 - 130 70 - 130				03/18/22 17:03 03/18/22 17:03	03/19/22 14:48 03/19/22 14:48	
1-Chlorooctane p-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte	123 114 romatography - Result	Soluble Qualifier	70 - 130 	MDL		D		03/19/22 14:48 Analyzed	Dil Fa
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte	123 114 romatography -		70 - 130	MDL	Unit mg/Kg	D	03/18/22 17:03	03/19/22 14:48	Dil Fac
Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride Ilient Sample ID: EDEF1 @	123 114 romatography - Result 19.4		70 - 130 	MDL		<u>D</u>	03/18/22 17:03 Prepared	03/19/22 14:48 Analyzed	Dil Fa
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @	123 114 romatography - Result 19.4		70 - 130 	MDL		<u>D</u>	03/18/22 17:03 Prepared	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890-	Dil Fac
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00	123 114 romatography - Result 19.4		70 - 130 	MDL		<u>D</u>	03/18/22 17:03 Prepared	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890-	Dil Fa
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27	123 114 romatography - Result 19.4 SURFACE	Qualifier	70 - 130 	MDL		D	03/18/22 17:03 Prepared	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890-	Dil Fa
I-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride Iient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ	ic Compounds (Qualifier	70 - 130 	MDL	mg/Kg	<u>D</u>	03/18/22 17:03 Prepared	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890-	Dil Fac 2099-3 x: Solic
I-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte	ic Compounds (Qualifier GC) Qualifier	70 - 130		mg/Kg		03/18/22 17:03 Prepared Lab San	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890- Matri	Dil Fac 2099-3 x: Solic Dil Fac
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene	123 114 romatography - Result 19.4 SURFACE	Qualifier GC) Qualifier	70 - 130		mg/Kg		03/18/22 17:03 Prepared Lab San	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890- Matri <u>Analyzed</u>	Dil Fac 2099-3 x: Solic Dil Fac 500
1-Chlorooctane p-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene	123 114 romatography - Result 19.4) SURFACE sic Compounds (Result <0.998	Qualifier GC) Qualifier	70 - 130 RL 5.04		Unit mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00	03/19/22 14:48 <u>Analyzed</u> 03/30/22 07:07 nple ID: 890- Matri <u>Analyzed</u> 03/26/22 08:20	Dil Fac 2099-3 x: Solic Dil Fac 500 500
1-Chlorooctane p-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene	123 114 romatography - Result 19.4) SURFACE iic Compounds (<u>Result</u> <0.998 3.94	Qualifier GC) Qualifier	70 - 130 RL 5.04		Unit mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San 03/24/22 10:00 03/24/22 10:00	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri Analyzed 03/26/22 08:20 03/26/22 08:20	Dil Far 2099-3 x: Solic Dil Far 500 500 500
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	123 114 romatography - Result 19.4) SURFACE iic Compounds (Result <0.998 3.94 1.49	Qualifier GC) Qualifier	70 - 130 RL 5.04		Unit mg/Kg mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri Analyzed 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20	Dil Fac 2099-3 x: Solic 500 500 500 500 500 500
I-Chlorooctane p-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene p-Xylene	123 114 romatography - Result 19.4) SURFACE sic Compounds (Result <0.998 3.94 1.49 12.9	Qualifier GC) Qualifier	70 - 130 RL 5.04 0.998 0.998 0.998 0.998 0.998 0.998 2.00		Unit mg/Kg mg/Kg mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20	Dil Fa 2099-3 x: Solic 500 500 500 500 500 500
I-Chlorooctane p-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	123 114 romatography - Result 19.4 SURFACE SURFACE ic Compounds (Result <0.998 3.94 1.49 12.9 3.63 16.5 %Recovery	Qualifier GC) Qualifier U	70 - 130 RL 5.04		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 Analyzed	Dil Far 2099-3 x: Solic 500 500 500 500 500 500 500 500 500 50
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride	123 114 romatography - Result 19.4 SURFACE iic Compounds (Result <0.998 3.94 1.49 12.9 3.63 16.5	Qualifier GC) Qualifier U	70 - 130 RL 5.04		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20	Dil Far 2099-3 x: Solic 500 500 500 500 500 500 500 500 500 50
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	123 114 romatography - Result 19.4 SURFACE SURFACE ic Compounds (Result <0.998 3.94 1.49 12.9 3.63 16.5 %Recovery	Qualifier GC) Qualifier U	70 - 130 RL 5.04		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 Analyzed	Dil Fac 2099-3 x: Solic 500 500 500 500
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch Analyte Chloride lient Sample ID: EDEF1 @ ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27 Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	123 114 romatography - Result 19.4 2) SURFACE ic Compounds (Result <0.998	Qualifier GC) Qualifier U	RL 5.04 RL 0.998 0.998 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00 0.998 2.00		Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/18/22 17:03 Prepared Lab San Prepared 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00	03/19/22 14:48 Analyzed 03/30/22 07:07 nple ID: 890- Matri 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20 03/26/22 08:20	Dil Fa 2099-3 x: Solic 500 500 500 500 500 500 500 50

Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29600	249		mg/Kg			03/21/22 09:51	1

Job ID: 890-2099-1 SDG: 15785

Lab Sample ID: 890-2099-4

Matrix: Solid

Client Sample ID: EDEF1 @ SURFACE

Client: Etech Environmental & Safety Solutions

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5410		249		mg/Kg		03/18/22 17:03	03/19/22 13:45	5
Diesel Range Organics (Over C10-C28)	20300		249		mg/Kg		03/18/22 17:03	03/19/22 13:45	5
Oll Range Organics (Over C28-C36)	3870		249		mg/Kg		03/18/22 17:03	03/19/22 13:45	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	184	S1+	70 - 130				03/18/22 17:03	03/19/22 13:45	5
o-Terphenyl	116		70 - 130				03/18/22 17:03	03/19/22 13:45	5
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: EDEF1 @ 4'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00619		0.00200		mg/Kg		03/24/22 10:00	03/26/22 05:57	1
Toluene	0.0206		0.00200		mg/Kg		03/24/22 10:00	03/26/22 05:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 05:57	1
m-Xylene & p-Xylene	0.0136		0.00399		mg/Kg		03/24/22 10:00	03/26/22 05:57	1
o-Xylene	0.00249		0.00200		mg/Kg		03/24/22 10:00	03/26/22 05:57	1
Xylenes, Total	0.0161		0.00399		mg/Kg		03/24/22 10:00	03/26/22 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/24/22 10:00	03/26/22 05:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/24/22 10:00	03/26/22 05:57	1

	Method: Total BTEX - Total BTEX C	alculation								
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	0.0429		0.00399		mg/Kg			03/28/22 12:32	1
ſ	_									
	Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)							
	Analyte	Result	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	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 15:08	1
Diesel Range Organics (Over C10-C28)	127		50.0		mg/Kg		03/18/22 17:03	03/19/22 15:08	1
Oll Range Organics (Over C28-C36)	195		50.0		mg/Kg		03/18/22 17:03	03/19/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/18/22 17:03	03/19/22 15:08	1
o-Terphenyl	102		70 - 130				03/18/22 17:03	03/19/22 15:08	1

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Lab Sample ID: 890-2099-3 Matrix: Solid 5 10

Released to Imaging: 2/1/2023 3:47:06 PM

Client Sample ID: EDEF1 @ Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27) 4'						Lab Sar	Lab Sample ID: 890-2 Matrix				
– Method: 300.0 - Anions, Ion Ch Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Chloride	18.3		5.01		mg/Kg			03/30/22 08:19				
Client Sample ID: SDEF1 @ Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27	SURFACE						Lab Sar	nple ID: 890-; Matri	2099-{ x: Solic			
– Method: 8021B - Volatile Organ	ic Compounds ((GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Benzene	<1.00	U	1.00		mg/Kg		03/24/22 10:00	03/26/22 12:55	50			
Toluene	3.27		1.00		mg/Kg		03/24/22 10:00	03/26/22 12:55	50			
Ethylbenzene	2.00		1.00		mg/Kg		03/24/22 10:00	03/26/22 12:55	50			
m-Xylene & p-Xylene	15.8		2.00		mg/Kg		03/24/22 10:00	03/26/22 12:55	50			
o-Xylene	4.65		1.00		mg/Kg		03/24/22 10:00	03/26/22 12:55	50			
Xylenes, Total	20.5		2.00		mg/Kg		03/24/22 10:00	03/26/22 12:55	50			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa			
4-Bromofluorobenzene (Surr)	90		70 - 130				03/24/22 10:00	03/26/22 12:55	50			
1,4-Difluorobenzene (Surr)	93		70 - 130				03/24/22 10:00	03/26/22 12:55	500			
- Method: Total BTEX - Total BTE	EX Calculation											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Total BTEX	25.7		2.00		mg/Kg			03/28/22 12:32				
- Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)										
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Total TPH	28200		250		mg/Kg			03/21/22 09:51				
_ Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)										
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Gasoline Range Organics	4030		250	·	mg/Kg		03/18/22 17:03	03/19/22 14:06				
(GRO)-C6-C10												
Diesel Range Organics (Over C10-C28)	21500		250		mg/Kg		03/18/22 17:03	03/19/22 14:06				
Oll Range Organics (Over C28-C36)	2660		250		mg/Kg		03/18/22 17:03	03/19/22 14:06	:			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa			
1-Chlorooctane			70 - 130				03/18/22 17:03	03/19/22 14:06				
o-Terphenyl	139	S1+	70 - 130				03/18/22 17:03	03/19/22 14:06				
_ Method: 300.0 - Anions, Ion Ch	romatography -	Soluble										
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Chloride	129		4.97		mg/Kg			03/30/22 11:43				
Client Sample ID: SDFE1 @) 4'						Lab Sar	nple ID: 890-	2099-6			
Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27									x: Solic			
_												
Method: 8021B - Volatile Organ Analyte		GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			

Aı	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Be	enzene	<0.00198	U	0.00198		mg/Kg		03/24/22 10:00	03/26/22 06:17	1
Т	bluene	0.00354		0.00198		mg/Kg		03/24/22 10:00	03/26/22 06:17	1
Et	hylbenzene	<0.00198	U	0.00198		mg/Kg		03/24/22 10:00	03/26/22 06:17	1

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Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: SDFE1 @ 4'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		03/24/22 10:00	03/26/22 06:17	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/24/22 10:00	03/26/22 06:17	
Kylenes, Total	<0.00396	U	0.00396		mg/Kg		03/24/22 10:00	03/26/22 06:17	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				03/24/22 10:00	03/26/22 06:17	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/24/22 10:00	03/26/22 06:17	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Fotal BTEX	<0.00396	U	0.00396		mg/Kg			03/28/22 12:32	
Method: 8015 NM - Diesel Rang	ge Organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	296		50.0		mg/Kg			03/21/22 09:51	
Method: 8015B NM - Diesel Rar	nge Organics (D								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics		U	50.0	MDL	mg/Kg		03/18/22 17:03	03/19/22 15:28	
GRO)-C6-C10	-00.0	0	00.0		mg/rtg		00,10,22 11.00	00,10,22 10.20	
Diesel Range Organics (Over C10-C28)	156		50.0		mg/Kg		03/18/22 17:03	03/19/22 15:28	
DII Range Organics (Over C28-C36)	140		50.0		mg/Kg		03/18/22 17:03	03/19/22 15:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	108		70 - 130				03/18/22 17:03	03/19/22 15:28	
p-Terphenyl	102		70 - 130				03/18/22 17:03	03/19/22 15:28	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	15.3		5.05		mg/Kg			03/30/22 08:54	
lient Sample ID: WDEF1 @	SURFACE						Lab San	nple ID: 890-	2099-
ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27								Matri	x: Soli
Method: 8021B - Volatile Organ Analyte		GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
		U	0.992		mg/Kg		03/24/22 10:00	03/26/22 13:15	50
Benzene	< 0.992				mg/Kg		03/24/22 10:00	03/26/22 13:15	50
	<0.992 9.96		0.992						
Foluene			0.992 0.992		mg/Kg		03/24/22 10:00	03/26/22 13:15	50
Benzene Foluene Ethylbenzene n-Xylene & p-Xylene	9.96						03/24/22 10:00 03/24/22 10:00	03/26/22 13:15 03/26/22 13:15	50 50
Foluene Ethylbenzene n-Xylene & p-Xylene	9.96 2.51 18.9		0.992		mg/Kg mg/Kg				50
Foluene Ethylbenzene n-Xylene & p-Xylene >-Xylene	9.96 2.51		0.992 1.98		mg/Kg		03/24/22 10:00	03/26/22 13:15	51 51
Foluene Ethylbenzene n-Xylene & p-Xylene o-Xylene Kylenes, Total	9.96 2.51 18.9 4.17	Qualifier	0.992 1.98 0.992		mg/Kg mg/Kg mg/Kg		03/24/22 10:00 03/24/22 10:00	03/26/22 13:15 03/26/22 13:15	
Foluene Ethylbenzene	9.96 2.51 18.9 4.17 23.1	Qualifier	0.992 1.98 0.992 1.98		mg/Kg mg/Kg mg/Kg		03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/26/22 13:15 03/26/22 13:15 03/26/22 13:15	50 50 50

Method: Total BTEX - Total BTEX	Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	35.5		1.98		mg/Kg				03/28/22 12:32	1

Eurofins Carlsbad

Page 88 of 140

5

Job ID: 890-2099-1 SDG: 15785

Lab Sample ID: 890-2099-6

Matrix: Solid

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: WDEF1 @ SURFACE

Page 89 of 140

5

Job ID: 890-2099-1 SDG: 15785

Lab Sample ID: 890-2099-7

Matrix: Solid

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	32000		250		mg/Kg			03/21/22 09:51	
Method: 8015B NM - Diesel Ra	inge Organics (D	RO) (GC)							
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	6150		250		mg/Kg		03/18/22 17:03	03/19/22 14:28	
(GRO)-C6-C10									
Diesel Range Organics (Over	22600		250		mg/Kg		03/18/22 17:03	03/19/22 14:28	
C10-C28)									
Oll Range Organics (Over C28-C36)	3200		250		mg/Kg		03/18/22 17:03	03/19/22 14:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane		S1+	70 - 130				03/18/22 17:03	03/19/22 14:28	
o-Terphenyl	145	S1+	70 - 130				03/18/22 17:03	03/19/22 14:28	
Method: 300.0 - Anions, Ion Cl	hromatography	Solublo							
Analyte		Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil F
Chloride	1680		49.9		mg/Kg	<u> </u>	Toparou	03/30/22 12:10	
	1000		1010					00,00,22 12110	
		001							
-		GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Analyte			RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 03/24/22 10:00	Analyzed	Dil F
Analyte Benzene	Result			MDL		<u> </u>			Dil F
Analyte Benzene Toluene	Result 0.00293	Qualifier	0.00199	MDL	mg/Kg	<u> </u>	03/24/22 10:00	03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene	Result 0.00293 0.00896	Qualifier	0.00199 0.00199	MDL	mg/Kg mg/Kg	<u> </u>	03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199 0.00398	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199 0.00398 0.00398	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38	
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199 0.00398 0.00199 0.00398	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38	
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199 0.00398 0.00199 0.00398 Limits	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 Analyzed 03/26/22 06:38	
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT	Result 0.00293 0.00896 <0.00199	Qualifier U	0.00199 0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 Analyzed 03/26/22 06:38	
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 0.00199 0.00398 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 Analyzed 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 Analyzed 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 RL	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 Analyzed 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg <u>Unit</u> mg/Kg	<u>D</u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00 Prepared	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier Qualifier O) (GC) Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 70 - 130 RL 0.00398	MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit Unit	<u>D</u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00 Prepared	03/26/22 06:38 03/26/22 06:38	Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier Qualifier O) (GC) Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 70 - 130 RL 0.00398	MDL MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit Unit	<u>D</u>	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00 Prepared	03/26/22 06:38 03/26/22 06:38	Dil F Dil F
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Raa Analyte	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier Qualifier O) (GC) Qualifier RO) (GC) Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 70 - 130 RL 0.00398 RL 49.9	MDL MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg	D	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00 Prepared Prepared	03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 03/26/22 06:38 Analyzed 03/26/22 06:38 Analyzed 03/26/22 06:38 Analyzed 03/28/22 12:32 Analyzed 03/21/22 09:51	Dil F Dil F
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 0.00293 0.00896 <0.00199	Qualifier U Qualifier Qualifier O) (GC) Qualifier RO) (GC) Qualifier	0.00199 0.00199 0.00398 0.00199 0.00398 <u>Limits</u> 70 - 130 70 - 130 70 - 130 RL 0.00398 RL 49.9	MDL MDL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg Unit Unit	D	03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 03/24/22 10:00 Prepared 03/24/22 10:00 03/24/22 10:00 Prepared Prepared	03/26/22 06:38 03/26/22 06:38	Dil I Dil F Dil F

03/19/22 15:48

03/18/22 17:03

C10-C28)

C28-C36)

Oll Range Organics (Over

49.9

mg/Kg

133

1

Client: Etech Environmental & Safety Solutions

5

Client Sample Results

Job ID: 890-2099-1 SDG: 15785

Project/Site: Bonanza 22-15 Client Sample ID: WDEF1 @ 4' Lab Sample ID: 890-2099-8 Date Collected: 03/17/22 00:00 Matrix: Solid Date Received: 03/17/22 13:27 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 97 70 - 130 03/18/22 17:03 03/19/22 15:48 o-Terphenyl 92 70 - 130 03/18/22 17:03 03/19/22 15:48 1 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 16.6 5.00 mg/Kg 03/30/22 09:30 1

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

-				Percent Su
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2099-1	NDEF1 @ SURFACE	96	90	
890-2099-2	NDEF1 @ 4'	97	100	
890-2099-3	EDEF1 @ SURFACE	92	95	
890-2099-4	EDEF1 @ 4'	98	98	
890-2099-5	SDEF1 @ SURFACE	90	93	
890-2099-6	SDFE1 @ 4'	113	100	
890-2099-7	WDEF1 @ SURFACE	76	67 S1-	
890-2099-8	WDEF1 @ 4'	104	96	
890-2106-A-1-Q MS	Matrix Spike	81	78	
890-2106-A-1-R MSD	Matrix Spike Duplicate	105	105	
LCS 880-22073/1-A	Lab Control Sample	94	103	
LCSD 880-22073/2-A	Lab Control Sample Dup	100	105	
MB 880-22073/5-B	Method Blank	99	100	
MB 880-22332/8	Method Blank	97	100	
Surragete Legend				
Surrogate Legend BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluoroben				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2099-1	NDEF1 @ SURFACE	207 S1+	131 S1+
890-2099-1	NDEF1 @ SURFACE	198 S1+	345 S1+
890-2099-1 MS	NDEF1 @ SURFACE	193 S1+	340 S1+
890-2099-1 MSD	NDEF1 @ SURFACE	187 S1+	327 S1+
890-2099-2	NDEF1 @ 4'	123	114
890-2099-3	EDEF1 @ SURFACE	184 S1+	116
890-2099-4	EDEF1 @ 4'	106	102
890-2099-5	SDEF1 @ SURFACE	191 S1+	139 S1+
890-2099-6	SDFE1 @ 4'	108	102
890-2099-7	WDEF1 @ SURFACE	191 S1+	145 S1+
890-2099-8	WDEF1 @ 4'	97	92
LCS 880-21924/2-A	Lab Control Sample	111	113
LCSD 880-21924/3-A	Lab Control Sample Dup	95	94
MB 880-21924/1-A	Method Blank	98	101
Surrogate Legend			

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2099-1 SDG: 15785

Prep Type: Total/NA

Page 91 of 140

Prep Type: Total/NA

Lab Sample ID: MB 880-22073/5-B

Matrix: Solid

Analysis Batch: 22332

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8021B - Volatile Organic Compounds (GC)

	Job ID: 890 SDG	-2099-1 6: 15785
Sa	mple ID: Metho	d Blank
	Prep Type: 1	
	Prep Batch	n: 22073
	Prep Batch Analyzed	n: 22073 Dil Fac
00		
	Analyzed	Dil Fac
00 00 00	Analyzed	Dil Fac

Analyta		MB MB sult Quali	lor	ы	MDL	Unit	D	D .	anarad	Analyza	d	Dil Fa
Analyte				RL 00200					repared	Analyze		
Benzene	<0.002					mg/Kg			4/22 10:00	03/26/22 0		
Toluene		200 U		00200		mg/Kg			4/22 10:00	03/26/22 0		
Ethylbenzene		200 U		00200		mg/Kg			4/22 10:00	03/26/22 0		
m-Xylene & p-Xylene		400 U		00400		mg/Kg			4/22 10:00	03/26/22 0		
o-Xylene	<0.002			00200		mg/Kg			4/22 10:00	03/26/22 0		
Xylenes, Total	<0.004	400 U	0.	00400		mg/Kg		03/24	4/22 10:00	03/26/22 0	4:47	
Surrogate	%Recov	MB MB ery Quali	fier Lin	nits				Pi	repared	Analyze	d	Dil Fa
4-Bromofluorobenzene (Surr)		99		. 130					4/22 10:00	03/26/22 0		
1,4-Difluorobenzene (Surr)		100		. 130					4/22 10:00	03/26/22 0		
Lab Sample ID: LCS 880-220	73/1-A						С	lient	Sample	ID: Lab Co	ntrol S	amp
Matrix: Solid										Prep Ty	/pe: To	otal/N
Analysis Batch: 22332										Prep	Batch:	2207
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Quali	ifier Unit		D	%Rec	Limits		
Benzene			0.100	0.07627		mg/Kg			76	70 - 130		
Toluene			0.100	0.07501		mg/Kg			75	70 - 130		
Ethylbenzene			0.100	0.07727		mg/Kg			77	70 - 130		
m-Xylene & p-Xylene			0.200	0.1770		mg/Kg			89	70 - 130		
o-Xylene			0.100	0.08902		mg/Kg			89	70 _ 130		
, , , , , , , , , , , , , , , , , , , ,												
	LCS											
Surrogate	%Recovery	LCS Qualifier	Limits	_								
Surrogate 4-Bromofluorobenzene (Surr)	94		70 - 130	-								
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery			-								
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22	%Recovery 94 103		70 - 130	-		c	lient	Sam	ple ID: L	ab Control		
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid	%Recovery 94 103		70 - 130	-		С	lient	Sam	ple ID: L	Prep Ty	/pe: To	otal/N
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid	%Recovery 94 103		70 - 130 70 - 130	-			lient	Sam	ple ID: La	Prep Ty Prep		otal/N 2207
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332	%Recovery 94 103		70 - 130 70 - 130 50 - 130	LCSD		D	lient			Prep Ty Prep %Rec.	/pe: To Batch:	otal/N 2207 RP
Surrogate I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332	%Recovery 94 103		70 - 130 70 - 130 Spike Added	LCSD Result) ifier <u>Unit</u>		Sam	%Rec	Prep Ty Prep %Rec. Limits	/pe: To Batch: RPD	otal/N 2207 RF Lim
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene	%Recovery 94 103		70 - 130 70 - 130 Spike Added 0.100			D ifier <u>Unit</u> mg/Kg	1		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	rpe: To Batch: RPD 12	otal/N 2207 RF Lin
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene	%Recovery 94 103		70 - 130 70 - 130 Spike Added 0.100 0.100	LCSD <u>Result</u> 0.08611 0.08509		D ifier Unit mg/Kg mg/Kg			%Rec 86 85	Limits 70 - 130	pe: To Batch: RPD 12 13	0tal/N 2207 RF Lim
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene	%Recovery 94 103		70 - 130 70 - 130 Spike Added 0.100			D ifier <u>Unit</u> mg/Kg			%Rec	Prep Ty Prep % %Rec. Limits 70 - 130 70 - 130 70 - 130	rpe: To Batch: RPD 12	otal/N 2207
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene Ethylbenzene	%Recovery 94 103		70 - 130 70 - 130 Spike Added 0.100 0.100	LCSD <u>Result</u> 0.08611 0.08509		D ifier Unit mg/Kg mg/Kg			%Rec 86 85	Limits 70 - 130	pe: To Batch: RPD 12 13	2207 2207 RF Lin
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	%Recovery 94 103		70 - 130 70 - 130 Spike Added 0.100 0.100 0.100	LCSD Result 0.08611 0.08509 0.08818		D ifier Unit mg/Kg mg/Kg mg/Kg			%Rec 86 85 88	Prep Ty Prep % %Rec. Limits 70 - 130 70 - 130 70 - 130	pe: To Batch: RPD 12 13 13	2207 RF Lin
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	- <u>%Recovery</u> 94 103 2073/2-A	Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100	LCSD Result 0.08611 0.08509 0.08818 0.2022		D ifier Unit mg/Kg mg/Kg mg/Kg			%Rec 86 85 88 101	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	(pe: To Batch: RPD 12 13 13 13	2207 RF Lin
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate		Qualifier	70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100 Limits	LCSD Result 0.08611 0.08509 0.08818 0.2022		D ifier Unit mg/Kg mg/Kg mg/Kg			%Rec 86 85 88 101	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	(pe: To Batch: RPD 12 13 13 13	2207 RF Lin
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22332 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	- <u>%Recovery</u> 94 103 2073/2-A	Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100	LCSD Result 0.08611 0.08509 0.08818 0.2022		D ifier Unit mg/Kg mg/Kg mg/Kg			%Rec 86 85 88 101	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	(pe: To Batch: RPD 12 13 13 13	2207 2207 RP Lim

Matrix: Solid

Analysis Batch: 22332									Prep	Batch: 22073
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.100	0.02974	F1	mg/Kg		30	70 - 130	
Toluene	<0.00199	U F2 F1	0.100	0.03585	F1	mg/Kg		36	70 - 130	

Eurofins Carlsbad

Prep Type: Total/NA

5

7

Client

Lab S Matrix

Analy

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07627		mg/Kg		76	70 - 130	
Toluene	0.100	0.07501		mg/Kg		75	70 - 130	
Ethylbenzene	0.100	0.07727		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1770		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08902		mg/Kg		89	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab S

Matrix ----

Analysis Batch: 22332							Prep	Batch:	22073
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08611		mg/Kg		86	70 - 130	12	35
Toluene	0.100	0.08509		mg/Kg		85	70 - 130	13	35
Ethylbenzene	0.100	0.08818		mg/Kg		88	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2022		mg/Kg		101	70 - 130	13	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	13	35

LCSD	LCSD	
%Recovery	Qualifier	Limi
100		70 -
105		70 -

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Page 93 of 140

Job ID: 890-2099-1 SDG: 15785

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

Lab Sample ID: 890-2106-A-1-Q	MS								С	lient	Sample ID: N		
Matrix: Solid											Prep Typ	e: To	tal/N/
Analysis Batch: 22332											Prep Ba	atch:	22073
	Sample	Sample	Spike	MS	MS						%Rec.		
Analyte	Result	Qualifier	Added	Result	Qual	ifier l	Unit) %I	Rec	Limits		
Ethylbenzene	<0.00199	U F2 F1	0.100	0.04098	F1	r	mg/Kg			41	70 ₋ 130		
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.1044	F1	r	mg/Kg			52	70 - 130		
o-Xylene	<0.00199	U F2 F1	0.100	0.04741	F1	r	mg/Kg			47	70 - 130		
	MS	MS											
Surrogate	%Recovery	Qualifier	Limits										
4-Bromofluorobenzene (Surr)	81		70 - 130										
1,4-Difluorobenzene (Surr)	78		70 - 130										
Lab Sample ID: 890-2106-A-1-R	MSD						c	Client	Samp	ole ID	: Matrix Spik	e Dur	olicate
Matrix: Solid											Prep Typ		
Analysis Batch: 22332											Prep Ba	atch:	2207
-	Sample	Sample	Spike	MSD	MSD						%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qual	ifier (Unit	0) %I	Rec	Limits	RPD	Lim
Benzene	<0.00199	U F2 F1	0.0992	0.07852	F2	r	ng/Kg			79	70 - 130	90	3
Toluene	<0.00199	U F2 F1	0.0992	0.07735	F2	r	ng/Kg			78	70 - 130	73	3
Ethylbenzene	<0.00199	U F2 F1	0.0992	0.07991	F2	r	ng/Kg			81	70 - 130	64	3
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.1900	F2	r	mg/Kg			96	70 - 130	58	3
o-Xylene	<0.00199	U F2 F1	0.0992	0.09568	F2	r	mg/Kg			96	70 - 130	67	3
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
4-Bromofluorobenzene (Surr)	105		70 - 130										
1,4-Difluorobenzene (Surr)	105		70 - 130										
Lab Sample ID: MB 880-22332/8									Clie	ent S	ample ID: Me	thod	Blan
Matrix: Solid											Prep Typ	e: To	tal/N
Analysis Batch: 22332													
		MB MB											
Analyte	R	esult Qualifier	RL		MDL	Unit		D	Prepa	red	Analyzed		Dil Fa
Benzene		0200 U	0.00200			mg/Kg					03/25/22 17:	11	
Foluene	<0.0	0200 U	0.00200			mg/Kg					03/25/22 17:	11	
Ethylbenzene	<0.0	0200 U	0.00200			mg/Kg					03/25/22 17:	11	
n-Xylene & p-Xylene	<0.0	0400 U	0.00400			mg/Kg					03/25/22 17:	11	
o-Xylene	<0.0	0200 U	0.00200			mg/Kg					03/25/22 17:	11	
Kylenes, Total	<0.0	0400 U	0.00400			mg/Kg					03/25/22 17:	11	
		MB MB											

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		03/25/22 17:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130		03/25/22 17:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21924/1-A Matrix: Solid Analysis Batch: 21941							Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batol	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 11:36	1
(GRO)-C6-C10									

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-21924/1	I- A									Client Sa	ample ID: I		
Matrix: Solid											Prep T	ype: To	otal/N/
Analysis Batch: 21941											Prep	Batch	: 2192 4
		MB MB											
Analyte		esult Qualifie			MDL	Unit		D		repared	Analyz		Dil Fa
Diesel Range Organics (Over	<	50.0 U	50.0			mg/K	9		03/1	8/22 17:03	03/19/22	11:36	
C10-C28) Oll Range Organics (Over C28-C36)		50.0 JI	50.0			malk			02/4	0/00 17.00	02/10/22	11.26	
Oli Ralige Organics (Over C28-C30)		50.0 U	50.0			mg/K	J		03/1	8/22 17:03	03/19/22 ⁻	11.50	
		MB MB											
Surrogate	%Reco	very Qualifie	r Limits						P	repared	Analyz	ed	Dil Fa
1-Chlorooctane		98	70 - 130						03/1	8/22 17:03	03/19/22	11:36	
o-Terphenyl		101	70 - 130						03/1	8/22 17:03	03/19/22	11:36	
Lab Sample ID: LCS 880-21924/	1 2 _A							~	liont	Sample	ID: Lab Co	ntrol 9	Sample
Matrix: Solid	2-8							Ŭ	ment	Sample	Prep T		
Analysis Batch: 21941													: 21924
Analysis Datch. 21341			Spike	LCS	LCS						%Rec.	Daten	. 2152-
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	830.9	Gudi		mg/Kg				70 - 130		
(GRO)-C6-C10			1000	000.0						00	20-100		
Diesel Range Organics (Over			1000	1109			mg/Kg			111	70 - 130		
C10-C28)													
	LCS	LCS											
Surrogate	%Recovery	Qualifier	Limits										
1-Chlorooctane	111		70 - 130										
			10 = 100										
	113 4/3-A		70 - 130				CI	ent	Sam	ple ID: L	ab Contro	l Samp	ole Duj
Lab Sample ID: LCSD 880-2192 Matrix: Solid			70 _ 130				CI	ent	Sam	ple ID: L		ype: To	otal/NA : 21924
o-Terphenyl Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941			70 ₋ 130 Spike	LCSD				ent	Sam	-	Prep T Prep %Rec.	ype: To Batch	otal/NA : 21924 RPC
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte			70 ₋ 130 Spike Added	Result			Unit	ent	Sam	%Rec	Prep T Prep %Rec. Limits	ype: To Batch	otal/N/ : 21924 RPI Limi
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics			70 ₋ 130 Spike					ent		-	Prep T Prep %Rec.	ype: To Batch	otal/NA : 21924 RPC Limi
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10			70 - 130 Spike Added 1000	Result 712.5			Unit mg/Kg	ent		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 15	otal/NA : 21924 RPE Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over			70 ₋ 130 Spike Added	Result			Unit	ent		%Rec	Prep T Prep %Rec. Limits	ype: To Batch	otal/NA : 21924 RPI Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10	4/3-A		70 - 130 Spike Added 1000	Result 712.5			Unit mg/Kg	ent		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 15	otal/NA : 21924 RPE Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	4/3-A		70 - 130 Spike Added 1000	Result 712.5			Unit mg/Kg	ent		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 15	otal/NA : 21924 RPE Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	4/3-A LCSD %Recovery	LCSD Qualifier	70 - 130 Spike Added 1000 1000 Limits	Result 712.5			Unit mg/Kg	ent		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 15	otal/NA : 21924 RPD Limit
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	4/3-A LCSD %Recovery 95		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 712.5			Unit mg/Kg	ent		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 15	otal/NA : 21924 RPE Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	4/3-A LCSD %Recovery		70 - 130 Spike Added 1000 1000 Limits	Result 712.5			Unit mg/Kg	ent		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 15	otal/NA : 21924 RPE Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	4/3-A LCSD %Recovery 95		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 712.5			Unit mg/Kg		<u> </u>	%Rec 71 92	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch RPD 15 19	otal/NA : 21924 RPE Limi 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	4/3-A LCSD %Recovery 95		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 712.5			Unit mg/Kg		<u> </u>	%Rec 71 92	Prep T Prep %Rec. Limits 70 - 130 70 - 130	expe: To Batch: 15 19 @ SUI	otal/NA : 21924 RPE Limi 20 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS	4/3-A LCSD %Recovery 95		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 712.5			Unit mg/Kg		<u> </u>	%Rec 71 92	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPE Limi 20 20 RFACE otal/NA
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid	4/3-A LCSD %Recovery 95	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 712.5 920.6			Unit mg/Kg		<u> </u>	%Rec 71 92	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPE Limi 20 20 RFACE otal/NA
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid Analysis Batch: 21941	4/3-A LCSD %Recovery 95 94 Sample	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 712.5 920.6	Qual	lifier	Unit mg/Kg		<u> </u>	%Rec 71 92	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPE Limi 20 20 RFACE otal/NA
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics	4/3-A LCSD %Recovery 95 94 Sample	<u>Qualifier</u> Sample	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 712.5 920.6 MS	Qual MS Qual	lifier	Unit mg/Kg mg/Kg		_ D_	%Rec 71 92 Sample	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPE Limi 20 20 RFACE otal/NA
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics	4/3-A <i>LCSD</i> %Recovery 95 94 Sample Result	<u>Qualifier</u> Sample	70 - 130 Spike Added 1000 1000 1000 1000 1000 Spike Added Spike Added	Result 712.5 920.6 MS Result	Qual MS Qual	lifier	Unit mg/Kg mg/Kg		_ D_	%Rec 71 92 Sample %Rec	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec. Limits	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPI Limi 20 20 RFACE otal/NA
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid Analysis Batch: 21941 Analyte	4/3-A <i>LCSD</i> %Recovery 95 94 Sample Result	Qualifier Sample Qualifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 Spike Added Spike Added	Result 712.5 920.6 MS Result	Qual MS Qual	lifier	Unit mg/Kg mg/Kg		_ D_	%Rec 71 92 Sample %Rec	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec. Limits	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPE Limi 20 20 RFACE otal/NA
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics	4/3-A <i>LCSD</i> %Recovery 95 94 Sample Result 5620	Qualifier Sample Qualifier MS	70 - 130 Spike Added 1000 1000 1000 1000 1000 Spike Added Spike Added	Result 712.5 920.6 MS Result	Qual MS Qual	lifier	Unit mg/Kg mg/Kg		_ D_	%Rec 71 92 Sample %Rec	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec. Limits	(West To Batch) RPD 15 19 (@ SUI ype: To	otal/NA : 21924 RPD Limit 20 20
Lab Sample ID: LCSD 880-2192 Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-2099-1 MS Matrix: Solid Analysis Batch: 21941 Analyte Gasoline Range Organics (GRO)-C6-C10	4/3-A <i>LCSD</i> %Recovery 95 94 Sample Result 5620 <i>MS</i>	Qualifier Sample Qualifier MS Qualifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 500 Spike Added 998	Result 712.5 920.6 MS Result	Qual MS Qual	lifier	Unit mg/Kg mg/Kg		_ D_	%Rec 71 92 Sample %Rec	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec. Limits	(West To Batch) RPD 15 19 (@ SUI ype: To	etal/NA : 21924 RPC Limin 20 20 RFACE otal/NA

Chloride

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Page 95 of 140

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2099-1	NSD						Client	Sample	ID: NDEF1	@ SUR	FACE
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 21941									Prep	Batch:	21924
	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	5620		999	6564	4	mg/Kg		95	70 - 130	7	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	187	S1+	70 - 130								
o-Terphenyl	327	S1+	70 - 130								

Lab Sample ID: MB 880-22034/1-A									Client S	Sample ID:	Method	Blank
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 22387												
	М	B MB										
Analyte	Resu	It Qualifier		RL	ľ	MDL Unit		DF	Prepared	Analyz	ed	Dil Fac
Chloride	<5.0	00 U		5.00		mg/K	g			03/30/22	05:03	1
Lab Sample ID: LCS 880-22034/2-A								Clien	t Sample	D: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 22387												
			Spike		LCS	LCS				%Rec.		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Analyte Chloride			Added 250		Result 247.5	Qualifier	Unit mg/Kg	<u>D</u>	%Rec 99	Limits 90 ₋ 110		
						Qualifier		<u> </u>				
						Qualifier	mg/Kg	=	99		ol Samp	e Dup
Chloride	· · · · · · · · · · · · · · · · · · ·					Qualifier	mg/Kg	=	99	90 - 110 Lab Contro	l Samp Type: S	
Chloride Lab Sample ID: LCSD 880-22034/3-A	· · · · · · · · · · · · · · · · · · ·					Qualifier	mg/Kg	=	99	90 - 110 Lab Contro		
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid	· · · ·						mg/Kg	=	99	90 - 110 Lab Contro		
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid			250		247.5		mg/Kg	=	99	90 - 110 Lab Contro Prep		oluble
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid Analysis Batch: 22387	· · ·		250 Spike		247.5	LCSD	mg/Kg	ient San	99 nple ID:	90 - 110 Lab Contro Prep %Rec.	Type: S	oluble RPD
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid Analysis Batch: 22387 Analyte	· · ·		250 Spike Added		247.5 LCSD Result	LCSD	mg/Kg Cli	ient San	99 nple ID: %Rec	90 - 110 Lab Contro Prep %Rec. Limits	Type: S	oluble RPD Limit
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid Analysis Batch: 22387 Analyte			250 Spike Added		247.5 LCSD Result	LCSD	mg/Kg Cli	ient San	99 nple ID: %Rec 98	90 - 110 Lab Contro Prep %Rec. Limits	Type: S	RPD Limit 20
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid Analysis Batch: 22387 Analyte Chloride			250 Spike Added		247.5 LCSD Result	LCSD	mg/Kg Cli	ient San	99 nple ID: %Rec 98	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 HD: SDEF1	Type: S	RPD Limit 20
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid Analysis Batch: 22387 Analyte Chloride Lab Sample ID: 890-2099-5 MS			250 Spike Added		247.5 LCSD Result	LCSD	mg/Kg Cli	ient San	99 nple ID: %Rec 98	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 HD: SDEF1	RPD 1 @ SUF	RPD Limit 20
Chloride Lab Sample ID: LCSD 880-22034/3-A Matrix: Solid Analysis Batch: 22387 Analyte Chloride Lab Sample ID: 890-2099-5 MS Matrix: Solid Analysis Batch: 22387	Sample Sa		250 Spike Added		247.5 LCSD Result 246.2	LCSD	mg/Kg Cli	ient San	99 nple ID: %Rec 98	90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 HD: SDEF1	RPD 1 @ SUF	RPD Limit 20

368.0

mg/Kg

96

90 - 110

249

129

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Job ID: 890-2099-1 SDG: 15785

GC VOA

Prep Batch: 22073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	5035	
890-2099-2	NDEF1 @ 4'	Total/NA	Solid	5035	
890-2099-3	EDEF1 @ SURFACE	Total/NA	Solid	5035	
890-2099-4	EDEF1 @ 4'	Total/NA	Solid	5035	
890-2099-5	SDEF1 @ SURFACE	Total/NA	Solid	5035	
890-2099-6	SDFE1 @ 4'	Total/NA	Solid	5035	
890-2099-7	WDEF1 @ SURFACE	Total/NA	Solid	5035	
890-2099-8	WDEF1 @ 4'	Total/NA	Solid	5035	
MB 880-22073/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-22073/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22073/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2106-A-1-Q MS	Matrix Spike	Total/NA	Solid	5035	
890-2106-A-1-R MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22332

890-2099-7	WDEF1 @ SURFACE	Iotal/NA	Solid	5035		
890-2099-8	WDEF1 @ 4'	Total/NA	Solid	5035		8
MB 880-22073/5-B	Method Blank	Total/NA	Solid	5035		
LCS 880-22073/1-A	Lab Control Sample	Total/NA	Solid	5035		9
LCSD 880-22073/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
890-2106-A-1-Q MS	Matrix Spike	Total/NA	Solid	5035		
890-2106-A-1-R MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
analysis Batch: 22332						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	8021B	22073	
890-2099-2	NDEF1 @ 4'	Total/NA	Solid	8021B	22073	40
890-2099-3	EDEF1 @ SURFACE	Total/NA	Solid	8021B	22073	13
890-2099-4	EDEF1 @ 4'	Total/NA	Solid	8021B	22073	
890-2099-5	SDEF1 @ SURFACE	Total/NA	Solid	8021B	22073	
890-2099-6	SDFE1 @ 4'	Total/NA	Solid	8021B	22073	
890-2099-7	WDEF1 @ SURFACE	Total/NA	Solid	8021B	22073	
390-2099-8	WDEF1 @ 4'	Total/NA	Solid	8021B	22073	
MB 880-22073/5-B	Method Blank	Total/NA	Solid	8021B	22073	
MB 880-22332/8	Method Blank	Total/NA	Solid	8021B		
_CS 880-22073/1-A	Lab Control Sample	Total/NA	Solid	8021B	22073	
_CSD 880-22073/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22073	
890-2106-A-1-Q MS	Matrix Spike	Total/NA	Solid	8021B	22073	
890-2106-A-1-R MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22073	

Analysis Batch: 22485

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	Total BTEX	
890-2099-2	NDEF1 @ 4'	Total/NA	Solid	Total BTEX	
890-2099-3	EDEF1 @ SURFACE	Total/NA	Solid	Total BTEX	
890-2099-4	EDEF1 @ 4'	Total/NA	Solid	Total BTEX	
890-2099-5	SDEF1 @ SURFACE	Total/NA	Solid	Total BTEX	
890-2099-6	SDFE1 @ 4'	Total/NA	Solid	Total BTEX	
890-2099-7	WDEF1 @ SURFACE	Total/NA	Solid	Total BTEX	
890-2099-8	WDEF1 @ 4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	8015NM Prep	
890-2099-2	NDEF1 @ 4'	Total/NA	Solid	8015NM Prep	
890-2099-3	EDEF1 @ SURFACE	Total/NA	Solid	8015NM Prep	
890-2099-4	EDEF1 @ 4'	Total/NA	Solid	8015NM Prep	
890-2099-5	SDEF1 @ SURFACE	Total/NA	Solid	8015NM Prep	

5

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

GC Semi VOA (Continued)

Prep Batch: 21924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-6	SDFE1 @ 4'	Total/NA	Solid	8015NM Prep	
890-2099-7	WDEF1 @ SURFACE	Total/NA	Solid	8015NM Prep	
890-2099-8	WDEF1 @ 4'	Total/NA	Solid	8015NM Prep	
MB 880-21924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2099-1 MS	NDEF1 @ SURFACE	Total/NA	Solid	8015NM Prep	
890-2099-1 MSD	NDEF1 @ SURFACE	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924
890-2099-2	NDEF1 @ 4'	Total/NA	Solid	8015B NM	21924
890-2099-3	EDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924
890-2099-4	EDEF1 @ 4'	Total/NA	Solid	8015B NM	21924
890-2099-5	SDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924
890-2099-6	SDFE1 @ 4'	Total/NA	Solid	8015B NM	21924
890-2099-7	WDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924
890-2099-8	WDEF1 @ 4'	Total/NA	Solid	8015B NM	21924
MB 880-21924/1-A	Method Blank	Total/NA	Solid	8015B NM	21924
LCS 880-21924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21924
LCSD 880-21924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21924
890-2099-1 MS	NDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924
890-2099-1 MSD	NDEF1 @ SURFACE	Total/NA	Solid	8015B NM	21924

Analysis Batch: 21998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-1	NDEF1 @ SURFACE	Total/NA	Solid	8015 NM	
890-2099-2	NDEF1 @ 4'	Total/NA	Solid	8015 NM	
890-2099-3	EDEF1 @ SURFACE	Total/NA	Solid	8015 NM	
890-2099-4	EDEF1 @ 4'	Total/NA	Solid	8015 NM	
890-2099-5	SDEF1 @ SURFACE	Total/NA	Solid	8015 NM	
890-2099-6	SDFE1 @ 4'	Total/NA	Solid	8015 NM	
890-2099-7	WDEF1 @ SURFACE	Total/NA	Solid	8015 NM	
890-2099-8	WDEF1 @ 4'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22034

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2099-1	NDEF1 @ SURFACE	Soluble	Solid	DI Leach	
890-2099-2	NDEF1 @ 4'	Soluble	Solid	DI Leach	
890-2099-3	EDEF1 @ SURFACE	Soluble	Solid	DI Leach	
890-2099-4	EDEF1 @ 4'	Soluble	Solid	DI Leach	
890-2099-5	SDEF1 @ SURFACE	Soluble	Solid	DI Leach	
890-2099-6	SDFE1 @ 4'	Soluble	Solid	DI Leach	
890-2099-7	WDEF1 @ SURFACE	Soluble	Solid	DI Leach	
890-2099-8	WDEF1 @ 4'	Soluble	Solid	DI Leach	
MB 880-22034/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22034/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Page 97 of 140

Job ID: 890-2099-1 SDG: 15785

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

HPLC/IC (Continued)

Leach Batch: 22034 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2099-5 MS	SDEF1 @ SURFACE	Soluble	Solid	DI Leach	
890-2099-5 MSD	SDEF1 @ SURFACE	Soluble	Solid	DI Leach	

Analysis Batch: 22387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
_CSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2099-5 MS	SDEF1 @ SURFACE	Soluble	Solid	DI Leach	
390-2099-5 MSD	SDEF1 @ SURFACE	Soluble	Solid	DI Leach	
nalysis Batch: 22387					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-2099-1	NDEF1 @ SURFACE	Soluble	Solid	300.0	22034
390-2099-2	NDEF1 @ 4'	Soluble	Solid	300.0	22034
90-2099-3	EDEF1 @ SURFACE	Soluble	Solid	300.0	22034
390-2099-4	EDEF1 @ 4'	Soluble	Solid	300.0	22034
390-2099-5	SDEF1 @ SURFACE	Soluble	Solid	300.0	22034
390-2099-6	SDFE1 @ 4'	Soluble	Solid	300.0	22034
390-2099-7	WDEF1 @ SURFACE	Soluble	Solid	300.0	22034
390-2099-8	WDEF1 @ 4'	Soluble	Solid	300.0	22034
/IB 880-22034/1-A	Method Blank	Soluble	Solid	300.0	22034
CS 880-22034/2-A	Lab Control Sample	Soluble	Solid	300.0	22034
CSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22034
390-2099-5 MS	SDEF1 @ SURFACE	Soluble	Solid	300.0	22034
390-2099-5 MSD	SDEF1 @ SURFACE	Soluble	Solid	300.0	22034

Job ID: 890-2099-1 SDG: 15785

Eurofins Carlsbad

Page 98 of 140

Initial

Amount

4.97 g

5 mL

10.05 g

10.05 g

5.05 g

Final

Amount

5 mL

5 mL

10 mL

10 mL

50 mL

Batch

22073

22332

22485

21998

21924

21941

21924

21941

22034

22387

Number

Prepared

or Analyzed

03/24/22 10:00

03/26/22 08:00

03/28/22 12:32

03/21/22 09:51

03/18/22 17:03

03/19/22 12:40

03/18/22 17:03

03/19/22 19:51

03/21/22 11:42

03/30/22 11:35

Dil

500

1

1

1

5

1

Factor

Run

Client Sample ID: NDEF1 @ SURFACE Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Client Sample ID: NDEF1 @ 4'

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Prep

Prep

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015NM Prep

8015B NM

8015B NM

DI Leach

300.0

8015 NM

Job ID: 890-2099-1 SDG: 15785

Lab

XEN MID

Lab Sample ID: 890-2099-1 Matrix: Solid

Analyst

KL

KL

AJ

AJ

DM

AJ

DM

AJ

СН

СН

5 9

Lab Sample ID: 890-2099-2

Lab Sample ID: 890-2099-3

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 05:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 07:07	СН	XEN MID

Client Sample ID: EDEF1 @ SURFACE Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	22332	03/26/22 08:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		5			21941	03/19/22 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		10			22387	03/30/22 08:10	СН	XEN MID

9

Job ID: 890-2099-1 SDG: 15785

Lab Sample ID: 890-2099-4 Matrix: Solid

Lab Sample ID: 890-2099-5

Matrix: Solid

Matrix: Solid

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Client Sample ID: EDEF1 @ 4'

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 05:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 08:19	СН	XEN MID

Client Sample ID: SDEF1 @ SURFACE

Date Collected: 03/17/22 00:00

Date	Received:	03/17/22 13:27	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	22332	03/26/22 12:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		5			21941	03/19/22 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 11:43	CH	XEN MID

Client Sample ID: SDFE1 @ 4' Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 06:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 08:54	СН	XEN MID

Client Sample ID: WDEF1 @ SURFACE Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	22332	03/26/22 13:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID

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Matrix: Solid

Lab Sample ID: 890-2099-7

Lab Sample ID: 890-2099-6

Released to Imaging: 2/1/2023 3:47:06 PM

Client: Etech Environmental & Safety Solutions

Client Sample ID: WDEF1 @ SURFACE

Job ID: 890-2099-1 SDG: 15785

Lab Sample ID: 890-2099-7 Matrix: Solid

Lab Sample ID: 890-2099-8

Matrix: Solid

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		5			21941	03/19/22 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		10			22387	03/30/22 12:10	СН	XEN MID

Client Sample ID: WDEF1 @ 4' Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 06:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22485	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 15:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 09:30	CH	XEN MID

Laboratory References:

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

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Page 101 of 140

5

9

Page 102 of 140

Client: Etech Environmenta Project/Site: Bonanza 22-1	-			Job ID: 890-2099-1 SDG: 15785	
Laboratory: Eurofins Unless otherwise noted, all analytic		e covered under each acc	reditation/certification below.		
Authority		gram	Expiration Date		
Texas	NEL		T104704400-21-22 ied by the governing authority. This list ma	06-30-22	5
the agency does not offer ce	ertification.	-			
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
_					8
					9
					10
					13

Eurofins Carlsbad

.

Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Job ID: 890-2099-1 SDG: 15785

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Job ID: 890-2099-1						
SDG: 15785						

Client: Etech Ei Project/Site: Bo	nvironmental & Safety Solutions onanza 22-15				Job ID: 890-2099-1 SDG: 15785	2
_ab Sample ID	Client Sample ID	Matrix	Collected	Received		
90-2099-1	NDEF1 @ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		
90-2099-2	NDEF1 @ 4'	Solid	03/17/22 00:00	03/17/22 13:27		
90-2099-3	EDEF1 @ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-4	EDEF1 @ 4'	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-5	SDEF1 @ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-6	SDFE1 @ 4'	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-7	WDEF1 @ SURFACE	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-8	WDEF1 @ 4'	Solid	03/17/22 00:00	03/17/22 13:27		
						•

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Received by OCD: 11/10/2022 9:48:19 AM



Chain of Custody

13

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



ot

Project Manager:	oel Lowry				Bill to: (if differ	ent)	Camille Bryant					www.xanco.com Page <u>1</u> of <u>1</u> Work Order Comments									
Company Name: E	tech Environ	mental a	nd Safety		Company Na	SS21440	Plains Pipeline					Program: UST/PST PRF Brownfield RR Superfund									
	617 West Ma				Address:								State of Project:								
City, State ZIP:	lobbs, NM 88	240			City, State Z	íP.														Level 7	
Phone: (575) 264-988	4	<u>.</u>	Email:	Email Resu	المختية مستنباقه	PM@	etech	env.c	om + C	lient	·····	I	1		s: ED[DaPT		her:
Project Name:	В	onanza 2	2-15	Τι	Irn Around	1			1.033		ANAL	YSIS R	EQUE	ST					1	Prese	rvative Code:
Project Number:		15785	5	Rout	ine: 🛛	200		Γ	ľ				T	T T	Γ			T		INO3: HN	
Project Location	Run	al Eddy (Co., NM	Rush	r: 🗌	e e	****		<u>†</u>				-	1	<u> </u>						
Sampler's Name:	M	iguel Rai	mirez	Due	Date:	vativ														12S04: H2 1CL: HL	
PO#:					<u> </u>	Ser														IOL: HL	
SAMPLE RECEI		mp Blank:	(es) No	Wet Ice:	(Yes) No	Ē														aOH: Na	
Temperature (°C):	24.4	124.E	<u>≯</u>	hermometer		Jen J														ACH: Ma	
Received Intact:	les			IPC	\rangle	ntail		(¥													NaOH: Zn
Cooler Custody Seals:	Yes N		Correction F		-0,3-	<u>-</u> 8	~	edE											r		
Sample Custody Seals	Yes N	o MA	Tetal Contair	ners:	<u> </u>	, d	(8021)	odifi	6											starts the day received by the ab, if received by 4:30pm	
Sample Identi	fication	Matrix	Date Sampled	Time Sampled	Depth	Numbe	BTEX (8	TPH (Modified Ext.)	CI- (E300)											Samp	le Comments
NDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	X	X	x				1								
NDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	X	X	x				†	<u>† </u>	<u> </u>						
EDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	X	X	x				1	<u>†</u>	ļ,						
EDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	X	X	X	††-			1	<u> </u>	<u> </u>	<u> </u>				·	
SDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	X	x	X	<u>†</u>			1		<u> </u>	<u> </u>					
SDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	х	x	X				1		<u> </u>						
WDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	Х	x	X	<u>† †</u>			1		<u>†</u>						
WDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	Х	X	x				1	<u> </u> .		<u> </u>					
												1	1	<u> </u>	<u> </u>	1					
					[.							-	1	<u> </u>		<u>†</u>					
Total 200.7 / 60 Circle Method(s,			8RC alyzed	RÁ 13PPI TCLP / SP	VI Texas 11 LP 6010: 8F	AI S RCRA	b As Sb /	Ba As Ba	Be B a Be	Cd C Cd Cr	a Cr Co Co Cu	D Cu F Pb M	Fe Pb In Mo	Mg I NiS	Mn M Se Ag	to Ni TI U	K Se	Ag S			Sn U V Zn 7470 / 7471 :
Notice: Signature of this do of service. Xenco will be li of Xenco. A minimum char																					
Relinquished by:		1		by: (Signati	NATIONAL PLANTANE AND ADDRESS OF THE	1	- Webshares	/Time		1	nquishe				a pievi			y: (Sig	nature		Date/Time
1 August Aug	8 A-2		1 NAN	SM	1/	3.	10-10-10-10-10-10-10-10-10-10-10-10-10-1	9-2		2			3		<u>1993(8)</u>	11240		<u>. (0</u> .9	,	<u>×</u>	Uale/Titlle
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3/30/2022

Revised Date101419 Rev. 2019.1

14

Job Number: 890-2099-1 SDG Number: 15785

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 2099 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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-2099-1 SDG Number: 15785

List Source: Eurofins Midland

List Creation: 03/18/22 11:38 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 2099 List Number: 2 Creator: Rodriguez, Leticia

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 11/10/2022 9:48:19 AM

140 1 2 3 4 5 6 7 8 9 10 11 12

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2099-2

Laboratory Sample Delivery Group: 15785 Client Project/Site: Bonanza 22-15

For:

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

Attn: Joel Lowry

KRAMER

Authorized for release by: 3/30/2022 7:49:02 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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.



Released to Imaging: 2/1/2023 3:47:06 PM
Laboratory Job ID: 890-2099-2 SDG: 15785

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
	4
Client Sample Results	5
Surrogate Summary	12
	13
	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
	25
	27

	Definitions/Glossary	
	nvironmental & Safety Solutions Job ID: 890-2099-2	
Project/Site: Bo	nanza 22-15 SDG: 15785	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
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	8
U	Indicates the analyte was analyzed for but not detected.	
Glossary		9
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)	4.0
Dil Fac	Dilution Factor	13
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)

TEQ Toxicity Equivalent Quoti TNTC Too Numerous To Count

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4

5

Job ID: 890-2099-2
SDG: 15785

Job ID: 890-2099-2

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2099-2

Receipt

The samples were received on 3/17/2022 1:27 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 24.2°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.

HPLC/IC

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

Job ID: 890-2099-2 SDG: 15785

Client Sample ID: NW Date Collected: 03/17/22 00:00

Project/Site: Bonanza 22-15

Date Received: 03/17/22 13:27

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 06:58	
Toluene	0.00207		0.00202		mg/Kg		03/24/22 10:00	03/26/22 06:58	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 06:58	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/24/22 10:00	03/26/22 06:58	
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 06:58	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/24/22 10:00	03/26/22 06:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				03/24/22 10:00	03/26/22 06:58	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/24/22 10:00	03/26/22 06:58	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/28/22 12:32	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/22 09:51	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	D11 E
								•	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 16:08	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0				mg/Kg mg/Kg		03/18/22 17:03 03/18/22 17:03	03/19/22 16:08 03/19/22 16:08	
(GRO)-C6-C10		U	50.0						
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U U	50.0		mg/Kg		03/18/22 17:03	03/19/22 16:08	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0 50.0 50.0		mg/Kg		03/18/22 17:03 03/18/22 17:03	03/19/22 16:08 03/19/22 16:08	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 Limits		mg/Kg		03/18/22 17:03 03/18/22 17:03 Prepared	03/19/22 16:08 03/19/22 16:08 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <u>%Recovery</u> 93 93	U U Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/Kg		03/18/22 17:03 03/18/22 17:03 Prepared 03/18/22 17:03	03/19/22 16:08 03/19/22 16:08 <u>Analyzed</u> 03/19/22 16:08	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl	<50.0 <50.0 %Recovery 93 93 Domatography -	U U Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg		03/18/22 17:03 03/18/22 17:03 Prepared 03/18/22 17:03	03/19/22 16:08 03/19/22 16:08 <u>Analyzed</u> 03/19/22 16:08	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	<50.0 <50.0 %Recovery 93 93 Domatography -	U U Qualifier Soluble	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	MDL	mg/Kg mg/Kg	D	03/18/22 17:03 03/18/22 17:03 Prepared 03/18/22 17:03 03/18/22 17:03	03/19/22 16:08 03/19/22 16:08 Analyzed 03/19/22 16:08 03/19/22 16:08	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte	<50.0 <50.0 	U U Qualifier Soluble	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 RL	MDL	mg/Kg mg/Kg Unit	D	03/18/22 17:03 03/18/22 17:03 Prepared 03/18/22 17:03 03/18/22 17:03 Prepared	03/19/22 16:08 03/19/22 16:08 Analyzed 03/19/22 16:08 03/19/22 16:08 Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 07:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 07:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 07:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/22 10:00	03/26/22 07:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 07:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/22 10:00	03/26/22 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/24/22 10:00	03/26/22 07:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/24/22 10:00	03/26/22 07:19	1

Page 5 of 28

Eurofins Carlsbad

Released to Imaging: 2/1/2023 3:47:06 PM

Lab Sample ID: 890-2099-9 Matrix: Solid 5

Job ID: 890-2099-2 SDG: 15785

Lab Sample ID: 890-2099-10

Client Sample ID: EW

Project/Site: Bonanza 22-15

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00398	U	0.00398		mg/Kg			03/28/22 12:32	1
Method: 8015 NM - Diesel Rang	je Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	261		50.0		mg/Kg			03/21/22 09:51	1
Method: 8015B NM - Diesel Rar	nge Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 16:29	1
GRO)-C6-C10									
Diesel Range Organics (Over	146		50.0		mg/Kg		03/18/22 17:03	03/19/22 16:29	1
:10-C28)									
II Range Organics (Over	115		50.0		mg/Kg		03/18/22 17:03	03/19/22 16:29	1
28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
-Chlorooctane			70 - 130				03/18/22 17:03	03/19/22 16:29	1
-Terphenyl	113		70 - 130				03/18/22 17:03	03/19/22 16:29	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
nalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
- Chloride	63.9		5.00		mg/Kg		· ·	03/30/22 09:48	1

Client Sample ID: SW

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 07:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 07:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 07:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/24/22 10:00	03/26/22 07:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/24/22 10:00	03/26/22 07:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/24/22 10:00	03/26/22 07:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/24/22 10:00	03/26/22 07:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/24/22 10:00	03/26/22 07:39	1
Method: Total BTEX - Total B	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/28/22 12:32	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 17:09	1
(GRO)-C6-C10									

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Page 113 of 140

Matrix: Solid

5

Lab Sample ID: 890-2099-11 Matrix: Solid

Job ID: 890-2099-2 SDG: 15785

Matrix: Solid

Matrix: Solid

5

3

Lab Sample ID: 890-2099-11

Lab Sample ID: 890-2099-12

Client Sample ID: SW Date Collected: 03/17/22 00:00

Project/Site: Bonanza 22-15

Date Received: 03/17/22 13:27

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	186		50.0		mg/Kg		03/18/22 17:03	03/19/22 17:09	1
C10-C28)									
Oll Range Organics (Over	96.3		50.0		mg/Kg 03/	03/18/22 17:03	03/19/22 17:09	1	
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				03/18/22 17:03	03/19/22 17:09	1
o-Terphenyl	122		70 - 130				03/18/22 17:03	03/19/22 17:09	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.5		4.99		mg/Kg			03/30/22 13:47	1

Client Sample ID: WW

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

notife of gain	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:11	
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:11	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:11	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/22 10:00	03/26/22 10:11	
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:11	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/22 10:00	03/26/22 10:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/24/22 10:00	03/26/22 10:11	
1,4-Difluorobenzene (Surr)	105		70 - 130				03/24/22 10:00	03/26/22 10:11	-
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/28/22 12:32	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								· ····· j =• ··	
Total TPH	161		50.0		mg/Kg			03/21/22 09:51	
		RO) (GC)	50.0		mg/Kg				
Method: 8015B NM - Diesel Rai	nge Organics (D	<mark>RO) (GC)</mark> Qualifier	50.0 RL	MDL		D	Prepared		
Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics	nge Organics (D	Qualifier		MDL		D	Prepared 03/18/22 17:03	03/21/22 09:51	,
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	nge Organics (D Result	Qualifier	RL	MDL	Unit	D	<u>.</u>	03/21/22 09:51 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organics (D Result <50.0	Qualifier	RL 50.0	MDL	Unit mg/Kg	D	03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 17:29	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (D Result <50.0 72.1	Qualifier	RL 50.0	MDL	Unit mg/Kg mg/Kg	D	03/18/22 17:03 03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 17:29 03/19/22 17:29	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organics (D Result <50.0 72.1	Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	D	03/18/22 17:03 03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 17:29 03/19/22 17:29	Dil Fac
Total TPH Method: 8015B NM - Diesel Rau Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	nge Organics (D Result <50.0 72.1 89.2	Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	D	03/18/22 17:03 03/18/22 17:03 03/18/22 17:03	03/21/22 09:51 Analyzed 03/19/22 17:29 03/19/22 17:29 03/19/22 17:29	Dil Fac

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Released to Imaging: 2/1/2023 3:47:06 PM

Client Sample Results

Job ID: 890-2099-2
SDG: 15785

Lab Sample ID: 890-2099-12

Client Sample ID: WW Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Method: 300.0 - Anions, Ion Chroma Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	234		25.0		mg/Kg			03/30/22 10:05	
Client Sample ID: FL1 @ 3'							Lab San	nple ID: 890-2	099-13
Date Collected: 03/17/22 00:00								Matri	x: Solid
Date Received: 03/17/22 13:27									
Sample Depth: 3									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	< 0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:31	1	ĩ
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:31	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:31	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/22 10:00	03/26/22 10:31	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/22 10:00	03/26/22 10:31	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/22 10:00	03/26/22 10:31	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	ī
4-Bromofluorobenzene (Surr)	109		70 - 130				03/24/22 10:00	03/26/22 10:31	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				03/24/22 10:00	03/26/22 10:31	1	

Method: Total BTEX - Total BTEX C	alculation							
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/28/22 12:32	1

Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	440		50.0		mg/Kg			03/21/22 09:51	1
- Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 17:49	1
Diesel Range Organics (Over	355		50.0		mg/Kg		03/18/22 17:03	03/19/22 17:49	1
C10-C28) Oll Range Organics (Over C28-C36)	85.4		50.0		mg/Kg		03/18/22 17:03	03/19/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				03/18/22 17:03	03/19/22 17:49	1
o-Terphenyl	105		70 - 130				03/18/22 17:03	03/19/22 17:49	1
_ Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	• • • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.96		mg/Kg			03/30/22 12:28	1

Client Sample ID: FL2 @ 3' Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

Sample Depth: 3

Method: 8021B - Volatile Organic C	ompounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 10:52	1

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Matrix: Solid

Lab Sample ID: 890-2099-14

1 uge 115 0J 140

Matrix: Solid

5

Job ID: 890-2099-2 SDG: 15785

Client Sample ID: FL2 @ 3'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Sample Depth: 3

Ethylbenzene

Xylenes, Total

o-Xylene

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

Lab	Sample	ID:	890-	209	99.	14	
	• ampio						

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 10:52	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/22 10:00	03/26/22 10:52	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/22 10:00	03/26/22 10:52	
o-Xylene	0.00430		0.00199		mg/Kg		03/24/22 10:00	03/26/22 10:52	
Xylenes, Total	0.00430		0.00398		mg/Kg		03/24/22 10:00	03/26/22 10:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		70 - 130				03/24/22 10:00	03/26/22 10:52	
1,4-Difluorobenzene (Surr)	103		70 - 130				03/24/22 10:00	03/26/22 10:52	
Method: Total BTEX - Total BTE									
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Total BTEX	0.00430		0.00398		mg/Kg			03/28/22 12:32	
Method: 8015 NM - Diesel Rang						_			
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH	408		50.0		mg/Kg			03/21/22 09:51	
Method: 8015B NM - Diesel Ran						_	. .		
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	56.0		50.0		mg/Kg		03/18/22 17:03	03/19/22 18:10	
Diesel Range Organics (Over C10-C28)	270		50.0		mg/Kg		03/18/22 17:03	03/19/22 18:10	
Oll Range Organics (Over C28-C36)	82.2		50.0		mg/Kg		03/18/22 17:03	03/19/22 18:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	120		70 - 130				03/18/22 17:03	03/19/22 18:10	
p-Terphenyl	120		70 - 130				03/18/22 17:03	03/19/22 18:10	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Chloride	183		5.00		mg/Kg			03/30/22 12:36	
lient Sample ID: FL3 @ 3'							Lab Sam	ple ID: 890-2	
ate Collected: 03/17/22 00:00 ate Received: 03/17/22 13:27								Matri	x: Soli
ample Depth: 3									
Method: 8021B - Volatile Organi						_	_ .	.	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene Toluene	<0.00200 <0.00200		0.00200 0.00200		mg/Kg mg/Kg		03/24/22 10:00 03/24/22 10:00	03/26/22 11:12 03/26/22 11:12	

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

%Recovery Qualifier

115

0.00200

0.00400

0.00200

0.00400

Limits

70 - 130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

03/24/22 10:00

03/24/22 10:00

03/24/22 10:00

03/24/22 10:00

Prepared

03/24/22 10:00

03/26/22 11:12

03/26/22 11:12

03/26/22 11:12

03/26/22 11:12

Analyzed

03/26/22 11:12

3/30/2022

Eurofins Carlsbad

1

1

1

1

1

Dil Fac

Job ID: 890-2099-2 SDG: 15785

Matrix: Solid

Lab Sample ID: 890-2099-15

Client Sample ID: FL3 @ 3'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130				03/24/22 10:00	03/26/22 11:12	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/28/22 12:32	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	282		50.0		mg/Kg			03/21/22 09:51	1
Method: 2015D NM Dissel De									
Method: 8015B NM - Diesel Ra					1114		Durant	A	D!!
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/18/22 17:03	03/19/22 18:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	205		50.0		mg/Kg		03/18/22 17:03	03/19/22 18:30	1
C10-C28)									
Oll Range Organics (Over	76.6		50.0		mg/Kg		03/18/22 17:03	03/19/22 18:30	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				03/18/22 17:03	03/19/22 18:30	1
o-Terphenyl	111		70 - 130				03/18/22 17:03	03/19/22 18:30	1
-									
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		4.95		mg/Kg			03/29/22 15:05	1

Client Sample ID: FL4 @ 3'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27 Sample Depth: 3

Lab Sample ID: 890-2099-16	
Matrix: Solid	

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/22 10:00	03/26/22 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/22 10:00	03/26/22 11:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/24/22 10:00	03/26/22 11:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/24/22 10:00	03/26/22 11:33	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/28/22 12:32	1

Client Sample Results

Job ID: 890-2099-2 SDG: 15785

Client Sample ID: FL4 @ 3'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

Project/Site: Bonanza 22-15

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	275		49.9		mg/Kg			03/21/22 09:51	1
- Method: 8015B NM - Diesel Rar	nge Organics (DI	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/22 17:03	03/19/22 18:50	1
Diesel Range Organics (Over	203		49.9		mg/Kg		03/18/22 17:03	03/19/22 18:50	1
C10-C28)									
Oll Range Organics (Over	72.3		49.9		mg/Kg		03/18/22 17:03	03/19/22 18:50	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				03/18/22 17:03	03/19/22 18:50	1
o-Terphenyl	122		70 - 130				03/18/22 17:03	03/19/22 18:50	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	• • • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		5.04		mg/Kg			03/29/22 15:14	1

Lab Sample ID: 890-2099-16 Matrix: Solid

5

Surrogate Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		_
890-2099-9	NW	98	100		
390-2099-10	EW	104	101		
390-2099-11	SW	101	104		- 7
390-2099-12	WW	108	105		
390-2099-13	FL1 @ 3'	109	99		- 1
390-2099-14	FL2 @ 3'	102	103		
390-2099-15	FL3 @ 3'	115	98		
390-2099-16	FL4 @ 3'	108	103		
390-2106-A-1-Q MS	Matrix Spike	81	78		
390-2106-A-1-R MSD	Matrix Spike Duplicate	105	105		
_CS 880-22073/1-A	Lab Control Sample	94	103		
_CSD 880-22073/2-A	Lab Control Sample Dup	100	105		
MB 880-22073/5-B	Method Blank	99	100		
VIB 880-22332/8	Method Blank	97	100		
0					
Surrogate Legend	(2)				- 7
BFB = 4-Bromofluorobe					
DFBZ = 1,4-Difluoroben	zene (Surr)				

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2099-9	NW	93	93	
890-2099-10	EW	116	113	
890-2099-11	SW	121	122	
890-2099-12	WW	111	110	
890-2099-13	FL1 @ 3'	106	105	
890-2099-14	FL2 @ 3'	120	120	
890-2099-15	FL3 @ 3'	114	111	
890-2099-16	FL4 @ 3'	123	122	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-2099-2 SDG: 15785

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 880-22073/5-B

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 22332

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Method: 8021B - Volatile Organic Compoun

unds (GC)						
					Client Sa	Prep Type: 1	otal/NA
мв						Prep Batch	n: 22073
Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 04:47	1
U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 04:47	1
U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 04:47	1
U	0.00400		mg/Kg		03/24/22 10:00	03/26/22 04:47	1
U	0.00200		mg/Kg		03/24/22 10:00	03/26/22 04:47	1
U	0.00400		mg/Kg		03/24/22 10:00	03/26/22 04:47	1
МВ							
Qualifier	Limits				Prepared	Analyzed	Dil Fac
	70 - 130				03/24/22 10:00	03/26/22 04:47	1
	70 - 130				03/24/22 10:00	03/26/22 04:47	1
	MB Qualifier U U U U U U U U U U MB	Qualifier RL U 0.00200 U 0.00200 U 0.00200 U 0.00200 U 0.00400 U 0.00200 U 0.00400 U 0.00400	MB RL MDL U 0.00200 MDL U 0.00200 U U 0.00400 U U 0.00400 U U 0.00400 U U 0.00400 U	MB Qualifier RL MDL Unit U 0.00200 mg/Kg U 0.00400 mg/Kg	MB MDL Unit D U 0.00200 mg/Kg D U 0.00400 mg/Kg D U 0.00200 mg/Kg D U 0.00400 mg/Kg D U 0.00400 mg/Kg D U 0.00400 mg/Kg D U 0.00400 mg/Kg D MB Qualifier Limits 70 - 130	MB D Prepared Qualifier RL MDL Unit D Prepared U 0.00200 mg/Kg 03/24/22 10:00 03/24/22 10:00 U 0.00400 mg/Kg 03/24/22 10:00 03/24/22 10:00 U 0.00400 mg/Kg 03/24/22 10:00 03/24/22 10:00 MB Qualifier Limits Prepared 03/24/22 10:00	Client Sample ID: Methon Prep Type: 1 Prep Batch MB Qualifier RL MDL Unit D Prepared Analyzed U 0.00200 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00200 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00200 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00400 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00200 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00200 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00400 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00400 mg/Kg 03/24/22 10:00 03/26/22 04:47 U 0.00400 mg/Kg 03/24/22 10:00 03/26/22 04:47 MB MB Qualifier Limits

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 22073

Lab Sample ID: LCS 880-22073/1-A Matrix: Solid

Analysis Batch: 22332

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07627		mg/Kg		76	70 - 130	
Toluene	0.100	0.07501		mg/Kg		75	70 - 130	
Ethylbenzene	0.100	0.07727		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1770		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08902		mg/Kg		89	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-22073/2-A

Matrix: Solid

Analysis Batch: 22332							Prep	Batch:	22073
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08611		mg/Kg		86	70 - 130	12	35
Toluene	0.100	0.08509		mg/Kg		85	70 - 130	13	35
Ethylbenzene	0.100	0.08818		mg/Kg		88	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2022		mg/Kg		101	70 - 130	13	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	13	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2106-A-1-Q MS

Matrix: Solid Analysia Bataby 22222

Analysis Batch: 22332									Prep Batch: 22073
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U F2 F1	0.100	0.02974	F1	mg/Kg		30	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.03585	F1	mg/Kg		36	70 - 130

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Page 120 of 140

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Job ID: 890-2099-2

SDG: 15785

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

Lab Sample ID: 890-2106-A-1-Q	MS									Client	Sample ID:		
Matrix: Solid											Prep Ty	ype: To	tal/NA
Analysis Batch: 22332											Prep	Batch:	22073
	Sample	Sample	Spike	MS	MS						%Rec.		
Analyte	Result	Qualifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00199	U F2 F1	0.100	0.04098	F1		mg/Kg			41	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.1044	F1		mg/Kg			52	70 - 130		
p-Xylene	<0.00199	U F2 F1	0.100	0.04741	F1		mg/Kg			47	70 - 130		
	MS	MS											
Surrogate	%Recovery	Qualifier	Limits										
4-Bromofluorobenzene (Surr)	81		70 - 130										
1,4-Difluorobenzene (Surr)	78		70 - 130										
Lab Sample ID: 890-2106-A-1-R	MSD							Client	San	nple ID	: Matrix Sp	ike Duj	olicate
Matrix: Solid											Prep Ty	ype: To	tal/NA
Analysis Batch: 22332												Batch:	
	Sample	Sample	Spike	MSD	MSD)					%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00199	U F2 F1	0.0992	0.07852	F2		mg/Kg			79	70 - 130	90	35
Toluene	<0.00199	U F2 F1	0.0992	0.07735	F2		mg/Kg			78	70 - 130	73	35
Ethylbenzene	<0.00199	U F2 F1	0.0992	0.07991	F2		mg/Kg			81	70 - 130	64	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.1900	F2		mg/Kg			96	70 - 130	58	35
o-Xylene	<0.00199	U F2 F1	0.0992	0.09568	F2		mg/Kg			96	70 - 130	67	35
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
4-Bromofluorobenzene (Surr)	105		70 - 130										
1,4-Difluorobenzene (Surr)	105		70 - 130										
Lab Sample ID: MB 880-22332/8									С	lient S	ample ID: N	/lethod	Blank
Matrix: Solid											Prep Ty	ype: To	tal/NA
Analysis Batch: 22332													
-		MB MB											
Analyte	R	esult Quali	fier	RL	MDL	Unit		D	Pre	pared	Analyze	ed	Dil Fac
Benzene	<0.0	0200 U	0.00	200		mg/Kg					03/25/22 1	7:11	1
Toluene	<0.0	0200 U	0.00	200		mg/Kg					03/25/22 1	7:11	
Ethylbenzene	<0.0	0200 U	0.00	200		mg/Kg					03/25/22 1	7:11	
m-Xylene & p-Xylene	<0.0	0400 U	0.00	400		mg/Kg					03/25/22 1	7:11	• • • • •
o-Xylene	<0.0	0200 U	0.00	200		mg/Kg					03/25/22 1	7:11	
Xylenes, Total	<0.0	0400 U	0.00	400		mg/Kg					03/25/22 1	7:11	

Surrogate	%Recovery	Qualifier	Limits	P
4-Bromofluorobenzene (Surr)	97		70 - 130	
1,4-Difluorobenzene (Surr)	100		70 - 130	
1,4-Difluorobenzene (Surr)	100		70 - 130	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22034/1-A Matrix: Solid Analysis Batch: 22387							Client Sa	ample ID: Metho Prep Type:	
· · · · · · , · · · · · · · · · · · · · · · · · · ·	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/30/22 05:03	1

Page 121 of 140

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Dil Fac

1

1

Analyzed 03/25/22 17:11

03/25/22 17:11

Prepared

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15 Page 122 of 140

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-220 Matrix: Solid	34/2-A						Clien	t Sample	e ID: Lab C Prep	ontrol Sa Type: Sa	
Analysis Batch: 22387											
			Spike		LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	247.5		mg/Kg		99	90 - 110		
Lab Sample ID: LCSD 880-22 Matrix: Solid	2 034/3-A					Clie	nt Sar	nple ID:	Lab Contro Prep	ol Sampl Type: S	
Analysis Batch: 22387											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	246.2		mg/Kg		98	90 - 110	1	20
- Lab Sample ID: 890-2099-A-{	5-H MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: S	
Analysis Batch: 22387											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	129		249	368.0		mg/Kg		96	90 _ 110		
_ Lab Sample ID: MB 880-2247 Matrix: Solid	75/1-A							Client S	Sample ID:		
Analysis Batch: 22476									Fiep	Type: S	oluble
Analysis Batch. 22470		МВ МВ									
Analyte	R	esult Qualifier	r	RL	MDL Unit		DI	Prepared	Analyz	zed	Dil Fac
Analyte Chloride Lab Sample ID: LCS 880-224 Matrix: Solid	~ ~	esult Qualifier 5.00 U		RL .00	MDL Unit mg/K			Prepared t Sample	Analyz 03/28/22 e ID: Lab Co Prep	15:06	
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476	~ ~		5 Spike	LCS	LCS	g	Clien	t Sample	03/28/22 e ID: Lab C Prep %Rec.	15:06	1 ample
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte	<		Spike Added	.00 LCS Result	mg/K	g Unit		t Sample	03/28/22 D: Lab C Prep %Rec. Limits	15:06	1 ample
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476	<		5 Spike	LCS	LCS	g	Clien	t Sample	03/28/22 e ID: Lab C Prep %Rec.	15:06	1 ample
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte			Spike Added	.00 LCS Result	LCS	Unit mg/Kg	Clien	t Sample	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro	15:06 ontrol Sa Type: Sa	ample oluble
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22			Spike Added	.00 LCS Result	LCS	Unit mg/Kg	Clien	t Sample	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro	15:06 ontrol Sampl	ample oluble
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid			Spike Added	.00 LCS Result 246.0	LCS	Unit mg/Kg	Clien	t Sample	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro	15:06 ontrol Sampl	ample oluble
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid			Spike Added 250	LCS Result 246.0	LCS Qualifier	Unit mg/Kg	Clien	t Sample	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep	15:06 ontrol Sampl	1 oluble de Dup oluble RPD
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476			Spike Added 250 Spike	LCS Result 246.0	LCS Qualifier	g Unit mg/Kg Clie	Clien D nt Sar	t Sample <u>%Rec</u> 98 nple ID:	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	ontrol Sampl Sampl Type: So	1 ample oluble e Dup oluble RPD Limit
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride	 2475/3-A		Spike Added 250 Spike Added	LCS Result 246.0 LCSD Result	LCS Qualifier	g Unit mg/Kg Clie Unit	Clien D nt Sar	t Sample %Rec 98 nple ID: %Rec 98	03/28/22 a ID: Lab C Prep %Rec. Limits 90 - 110 Lab Controc Prep %Rec. Limits 90 - 110	ontrol Sampl Sampl Type: So DI Sampl Type: So RPD 0	1 ample oluble oluble oluble RPD Limit 20
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-4	 2475/3-A		Spike Added 250 Spike Added	LCS Result 246.0 LCSD Result	LCS Qualifier	g Unit mg/Kg Clie Unit	Clien D nt Sar	t Sample %Rec 98 nple ID: %Rec 98	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID	15:06 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble oluble cluble RPD Limit 20 Spike
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-4 Matrix: Solid	 2475/3-A		Spike Added 250 Spike Added	LCS Result 246.0 LCSD Result	LCS Qualifier	g Unit mg/Kg Clie Unit	Clien D nt Sar	t Sample %Rec 98 nple ID: %Rec 98	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID	ontrol Sampl Sampl Type: So DI Sampl Type: So RPD 0	1 ample oluble e Dup oluble RPD Limit 20 Spike
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-4	 2475/3-A	5.00 U	Spike Added 250 Spike Added	.00 LCS Result 246.0 LCSD Result 246.2	LCS Qualifier	g Unit mg/Kg Clie Unit	Clien D nt Sar	t Sample %Rec 98 nple ID: %Rec 98	03/28/22 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID	15:06 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-4 Matrix: Solid		5.00 U	Spike Added 250 Spike Added 250	.00 LCS Result 246.0 LCSD Result 246.2 MS	LCS Qualifier LCSD Qualifier	g Unit mg/Kg Clie Unit	Clien D nt Sar	t Sample %Rec 98 nple ID: %Rec 98	03/28/22 D: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep	15:06 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble oluble oluble RPD Limit 20 Spike
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-4 Matrix: Solid Analysis Batch: 22476	2475/3-A 1-C MS Sample	5.00 U	Spike Added 250 Spike Added 250 Spike	.00 LCS Result 246.0 LCSD Result 246.2 MS	LCS Qualifier Qualifier	g Unit mg/Kg Clie Unit mg/Kg	Clien D nt Sar	t Sample <u>%Rec</u> 98 nple ID: <u>%Rec</u> 98 Client	03/28/22 a ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec.	15:06 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-7 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-7	2475/2-A 2475/3-A 1-C MS Sample Result 72.0	5.00 U	Spike Added 250 Spike Added 250 Spike Added	.00 LCS Result 246.0 LCSD Result 246.2 MS Result	LCS Qualifier Qualifier	g Unit mg/Kg Clie Unit mg/Kg	Clien D nt Sar D	t Sample %Rec 98 nple ID: %Rec 98 Client %Rec 97	03/28/22 a ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	15:06 ontrol Sampl DI Sampl Type: Sampl RPD 0 C Matrix Type: Sampl DI Sampl Type: Sampl DI Sampl	1 ample oluble oluble RPD Limit 20 Spike oluble
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-7 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A-7 Matrix: Solid	2475/2-A 2475/3-A 1-C MS Sample Result 72.0	5.00 U	Spike Added 250 Spike Added 250 Spike Added	.00 LCS Result 246.0 LCSD Result 246.2 MS Result	LCS Qualifier Qualifier	g Unit mg/Kg Clie Unit mg/Kg	Clien D nt Sar D	t Sample %Rec 98 nple ID: %Rec 98 Client %Rec 97	03/28/22 a ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	15:06 ontrol Sampl DI Sampl Type: Sampl RPD 0 : Matrix Type: Sampl 0	1 ample oluble le Dup oluble RPD Limit 20 Spike oluble oluble
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A	2475/3-A 1-C MS Sample Result 72.0	Sample Qualifier	Spike Added 250 Spike Added 250 Spike Added 249	.00 LCS Result 246.0 LCSD Result 246.2 MS Result 313.1	LCS Qualifier MS Qualifier	g Unit mg/Kg Clie Unit mg/Kg	Clien D nt Sar D	t Sample %Rec 98 nple ID: %Rec 98 Client %Rec 97	03/28/22 D3/28/22 D3/28/22 D3/28/22 D3/28/22 D3/28/22 Prep %Rec. Limits 90 - 110 Data Controc Prep %Rec. Limits 90 - 110 Data Controc Prep %Rec. Limits 90 - 110 Data Controc Prep %Rec. Limits 90 - 110 Data Controc Prep %Rec. Limits 90 - 110 Prep	15:06 ontrol Sampl DI Sampl Type: Sampl RPD 0 C Matrix Type: Sampl DI Sampl Type: Sampl DI Sampl	1 ample oluble le Dup oluble RPD Limit 20 Spike oluble oluble blicate oluble
Chloride Lab Sample ID: LCS 880-224 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: LCSD 880-22 Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A Matrix: Solid Analysis Batch: 22476 Analyte Chloride Lab Sample ID: 890-2141-A Matrix: Solid Analyte Chloride Lab Sample ID: 890-2141-A	2475/3-A 2475/3-A 1-C MS <u>Sample</u> <u>Result</u> 72.0 1-D MSD Sample	Sample Qualifier	Spike Added 250 Spike Added 250 Spike Added	.00 LCS Result 246.0 LCSD Result 246.2 MS Result 313.1	LCS Qualifier Qualifier	g Unit mg/Kg Clie Unit mg/Kg	Clien D nt Sar D	t Sample %Rec 98 nple ID: %Rec 98 Client %Rec 97	03/28/22 a ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	15:06 ontrol Sampl DI Sampl Type: Sampl RPD 0 C Matrix Type: Sampl DI Sampl Type: Sampl DI Sampl	1 ample oluble le Dup oluble RPD Limit 20 Spike oluble oluble

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QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

5

Job ID: 890-2099-2 SDG: 15785

GC VOA

Prep Batch: 22073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-9	NW	Total/NA	Solid	5035	
890-2099-10	EW	Total/NA	Solid	5035	
890-2099-11	SW	Total/NA	Solid	5035	
890-2099-12	WW	Total/NA	Solid	5035	
890-2099-13	FL1 @ 3'	Total/NA	Solid	5035	
890-2099-14	FL2 @ 3'	Total/NA	Solid	5035	
890-2099-15	FL3 @ 3'	Total/NA	Solid	5035	
890-2099-16	FL4 @ 3'	Total/NA	Solid	5035	
MB 880-22073/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-22073/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22073/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2106-A-1-Q MS	Matrix Spike	Total/NA	Solid	5035	
890-2106-A-1-R MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22332

890-2099-15	FL3 @ 3'	Iotal/NA	Solid	5035		
890-2099-16	FL4 @ 3'	Total/NA	Solid	5035		8
MB 880-22073/5-B	Method Blank	Total/NA	Solid	5035		
LCS 880-22073/1-A	Lab Control Sample	Total/NA	Solid	5035		9
LCSD 880-22073/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
890-2106-A-1-Q MS	Matrix Spike	Total/NA	Solid	5035		
890-2106-A-1-R MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
nalysis Batch: 22332						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2099-9	NW	Total/NA	Solid	8021B	22073	
390-2099-10	EW	Total/NA	Solid	8021B	22073	10
890-2099-11	SW	Total/NA	Solid	8021B	22073	13
390-2099-12	WW	Total/NA	Solid	8021B	22073	
390-2099-13	FL1 @ 3'	Total/NA	Solid	8021B	22073	
390-2099-14	FL2 @ 3'	Total/NA	Solid	8021B	22073	
390-2099-15	FL3 @ 3'	Total/NA	Solid	8021B	22073	
890-2099-16	FL4 @ 3'	Total/NA	Solid	8021B	22073	
/IB 880-22073/5-B	Method Blank	Total/NA	Solid	8021B	22073	
MB 880-22332/8	Method Blank	Total/NA	Solid	8021B		
_CS 880-22073/1-A	Lab Control Sample	Total/NA	Solid	8021B	22073	
_CSD 880-22073/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22073	
890-2106-A-1-Q MS	Matrix Spike	Total/NA	Solid	8021B	22073	
890-2106-A-1-R MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22073	

Analysis Batch: 22486

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2099-9	NW	Total/NA	Solid	Total BTEX	
890-2099-10	EW	Total/NA	Solid	Total BTEX	
890-2099-11	SW	Total/NA	Solid	Total BTEX	
890-2099-12	WW	Total/NA	Solid	Total BTEX	
890-2099-13	FL1 @ 3'	Total/NA	Solid	Total BTEX	
890-2099-14	FL2 @ 3'	Total/NA	Solid	Total BTEX	
890-2099-15	FL3 @ 3'	Total/NA	Solid	Total BTEX	
890-2099-16	FL4 @ 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-9	NW	Total/NA	Solid	8015NM Prep	
890-2099-10	EW	Total/NA	Solid	8015NM Prep	
890-2099-11	SW	Total/NA	Solid	8015NM Prep	
890-2099-12	WW	Total/NA	Solid	8015NM Prep	
890-2099-13	FL1 @ 3'	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

GC Semi VOA (Continued)

Prep Batch: 21924 (Continued)

Lab Sample ID 890-2099-14	Client Sample ID FL2 @ 3'	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-2099-15	FL3 @ 3'	Total/NA	Solid	8015NM Prep	
890-2099-16	FL4 @ 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21941

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2099-9	NW	Total/NA	Solid	8015B NM	21924
890-2099-10	EW	Total/NA	Solid	8015B NM	21924
890-2099-11	SW	Total/NA	Solid	8015B NM	21924
890-2099-12	WW	Total/NA	Solid	8015B NM	21924
890-2099-13	FL1 @ 3'	Total/NA	Solid	8015B NM	21924
890-2099-14	FL2 @ 3'	Total/NA	Solid	8015B NM	21924
890-2099-15	FL3 @ 3'	Total/NA	Solid	8015B NM	21924
890-2099-16	FL4 @ 3'	Total/NA	Solid	8015B NM	21924

Analysis Batch: 21998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-9	NW	Total/NA	Solid	8015 NM	
890-2099-10	EW	Total/NA	Solid	8015 NM	
890-2099-11	SW	Total/NA	Solid	8015 NM	
890-2099-12	WW	Total/NA	Solid	8015 NM	
890-2099-13	FL1 @ 3'	Total/NA	Solid	8015 NM	
890-2099-14	FL2 @ 3'	Total/NA	Solid	8015 NM	
890-2099-15	FL3 @ 3'	Total/NA	Solid	8015 NM	
890-2099-16	FL4 @ 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-9	NW	Soluble	Solid	DI Leach	
890-2099-10	EW	Soluble	Solid	DI Leach	
890-2099-11	SW	Soluble	Solid	DI Leach	
890-2099-12	WW	Soluble	Solid	DI Leach	
890-2099-13	FL1 @ 3'	Soluble	Solid	DI Leach	
890-2099-14	FL2 @ 3'	Soluble	Solid	DI Leach	
MB 880-22034/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22034/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2099-A-5-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2099-A-5-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22387

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2099-9	NW	Soluble	Solid	300.0	22034
890-2099-10	EW	Soluble	Solid	300.0	22034
890-2099-11	SW	Soluble	Solid	300.0	22034
890-2099-12	WW	Soluble	Solid	300.0	22034
890-2099-13	FL1 @ 3'	Soluble	Solid	300.0	22034
890-2099-14	FL2 @ 3'	Soluble	Solid	300.0	22034
MB 880-22034/1-A	Method Blank	Soluble	Solid	300.0	22034

Eurofins Carlsbad

Page 124 of 140

5

8 9

Job ID: 890-2099-2 SDG: 15785

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

HPLC/IC (Continued)

LCSD 880-22475/3-A

890-2141-A-1-C MS

890-2141-A-1-D MSD

Lab Control Sample Dup

Matrix Spike Duplicate

Matrix Spike

Analysis Batch: 22387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-22034/2-A	Lab Control Sample	Soluble	Solid	300.0	22034
LCSD 880-22034/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22034 🤍
890-2099-A-5-H MS	Matrix Spike	Soluble	Solid	300.0	22034
890-2099-A-5-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22034 0
Leach Batch: 22475					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-15	FL3 @ 3'	Soluble	Solid	DI Leach	8
890-2099-16	FL4 @ 3'	Soluble	Solid	DI Leach	_
MB 880-22475/1-A	Method Blank	Soluble	Solid	DI Leach	9
LCS 880-22475/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22475/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2141-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2141-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 22476					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2099-15	FL3 @ 3'	Soluble	Solid	300.0	22475
890-2099-16	FL4 @ 3'	Soluble	Solid	300.0	22475 13
MB 880-22475/1-A	Method Blank	Soluble	Solid	300.0	22475
LCS 880-22475/2-A	Lab Control Sample	Soluble	Solid	300.0	22475 14

Soluble

Soluble

Soluble

Solid

Solid

Solid

300.0

300.0

300.0

Page 125 of 140

22475 22475

22475

Job ID: 890-2099-2 SDG: 15785 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 06:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 16:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 09:39	СН	XEN MID

Client Sample ID: EW

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 07:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 09:48	CH	XEN MID

Client Sample ID: SW

Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 07:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 13:47	СН	XEN MID

Client Sample ID: WW Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 10:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID

Job ID: 890-2099-2 SDG: 15785

Lab Sample ID: 890-2099-9 Matrix: Solid

5

9

Lab Sample ID: 890-2099-11

Lab Sample ID: 890-2099-10

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2099-12 Matrix: Solid

Eurofins Carlsbad

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: WW

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		5			22387	03/30/22 10:05	СН	XEN MID

Client Sample ID: FL1 @ 3' Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 10:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 12:28	CH	XEN MID

Client Sample ID: FL2 @ 3'

Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 10:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 18:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22034	03/21/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			22387	03/30/22 12:36	CH	XEN MID

Client Sample ID: FL3 @ 3' Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 11:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 18:30	AJ	XEN MID

Eurofins Carlsbad

Page 127 of 140

Job ID: 890-2099-2 SDG: 15785

Lab Sample ID: 890-2099-12 Matrix: Solid

Lab Sample ID: 890-2099-13

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Lab Sample ID: 890-2099-14

Lab Sample ID: 890-2099-15

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Client Sample ID: FL3 @ 3' Date Collected: 03/17/22 00:00

Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	22475	03/28/22 11:29	СН	XEN MID
Soluble	Analysis	300.0		1			22476	03/29/22 15:05	СН	XEN MID

Client Sample ID: FL4 @ 3' Date Collected: 03/17/22 00:00 Date Received: 03/17/22 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22073	03/24/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22332	03/26/22 11:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22486	03/28/22 12:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21998	03/21/22 09:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21924	03/18/22 17:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21941	03/19/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22475	03/28/22 11:29	СН	XEN MID
Soluble	Analysis	300.0		1			22476	03/29/22 15:14	CH	XEN MID

Laboratory References:

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

Matrix: Solid

SDG: 15785 Lab Sample ID: 890-2099-15

Lab Sample ID: 890-2099-16

Job ID: 890-2099-2

Matrix: Solid

Page 129 of 140

	Client: Etech Environmental & Safety Solutions Job ID: Project/Site: Bonanza 22-15 S								
Laboratory: Eurof									
Unless otherwise noted, all a	analytes for this laboratory we	ere covered under each acc	reditation/certification below.						
Authority	Pr	ogram	Identification Number	Expiration Date					
Texas	NE	ELAP	T104704400-21-22	06-30-22					
The following analytes	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5				
the agency does not o									
Analysis Method	Prep Method	Matrix	Analyte						
8015 NM		Solid	Total TPH						
Total BTEX		Solid	Total BTEX						
					8				
					U				
					9				
					10				
					13				

Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: Bonanza 22-15

Job ID: 890-2099-2 SDG: 15785

Method	Method Description	Protocol	Laboratory	
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID	- 4
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID	
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	E
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	
300.0	Anions, Ion Chromatography	MCAWW	XEN MID	
5035	Closed System Purge and Trap	SW846	XEN MID	
8015NM Prep	Microextraction	SW846	XEN MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID	
Protocol Refe	rences:			8
ASTM = A	STM International			
MCAWW =	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Marc	h 1983 And Subsequent Revisions.		9
SW846 = "	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editi	on, November 1986 And Its Updates.		
TAL SOP =	 TestAmerica Laboratories, Standard Operating Procedure 			

Protocol References:

Laboratory References:

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

Eurofins Carlsbad

Job ID: 890-2099-2
SDG: 15785

		Sample Sun	nmary			1
	nvironmental & Safety Solutions onanza 22-15				Job ID: 890-2099-2 SDG: 15785	
ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
00-2099-9	NW	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-10	EW	Solid	03/17/22 00:00	03/17/22 13:27		
0-2099-11	SW	Solid	03/17/22 00:00	03/17/22 13:27		
)-2099-12	WW	Solid	03/17/22 00:00	03/17/22 13:27		
)-2099-13	FL1 @ 3'	Solid	03/17/22 00:00	03/17/22 13:27	3	
)-2099-14	FL2 @ 3'	Solid	03/17/22 00:00	03/17/22 13:27	3	
-2099-15	FL3 @ 3'	Solid	03/17/22 00:00	03/17/22 13:27	3	
-2099-16	FL4 @ 3'	Solid	03/17/22 00:00	03/17/22 13:27	3	

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XENCO

Chain of Custody

13

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 365-0900 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Atlanta, GA (770) 449-8800



1 of

Destruction							r								203-01-51	3 2.560 5975		WWV	v.xenq	102.02	<u>n</u> F	'age_		<u>of 1</u>
Project Manager:	Joel Lowry	Bill to: (if different) Camille Bryant									Work Order Comments													
	2.				Company Na	ame:	Plains Pipeline								Program: UST/PST PRF Brownfield RR Superfund									
Address:					Address:	<u>55:</u>																		
City, State ZIP:	Hobbs, NM 88	240			City, State Z	IP:									Repo	orting:1	evel (Le	evel [] PS	ST/US	TRI	🗌 Le	vel∏ł
Phone:	(575) 264-988	4	- <u>S.</u>	Email:	Email Resu	ults to:	PM@	etech	env.c	<u>:om</u> + 1	Client				Deliverables: EDD ADaPT Other:									
Project Name:	B	onanza 2	22-15	Tu	Irn Around						AN	ALYS	SIS RE		ST							Prese	rvative	Codes
Project Number:		15785	5	Rout	ine: 🛛				1	<u> </u>						T	T	T	T	T	HNO	3: HN		
Project Location	Rur	al Eddy (Co., NM	Rush	÷ آ	ke			[1						1	1	1	-	+		04: H2		
Sampler's Name:	N	liguel Rai	mirez	Due	Date:	vative															HCL			
PO#:	4		<u> </u>																			: NO		
SAMPLE RECE		mp Blank:		Wet Ice:	(Yes) No	S																H: Na		
Temperature (°C):	24.4	24.2	<u>† 1</u>	hermometer	ID	Den																H: Me		
Received Intact:		<u>No</u>	L	IPC		ntai		Xt.)													1		NaOH:	Zn
Cooler Custody Seals			Correction F		-0,3-	ŝ	~	edE																cevied by t
Sample Custody Seal	s: Yes N	o MA	Tetal Contair	ners:		er of	(8021)	odifi	6														eceived by	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Numb Code	BTEX (TPH (Modified Ext.)	CI- (E300)													Samp	le Com	ments
NDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	X	X	x							1	<u> </u>		+		1313/453			
NDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	Х	х	x							1	1	1	+					
EDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	X	X	X	1					······	†		1	+		-			
EDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	X	X	X							+	1				-			······
SDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	x	х	X						**********	1	1	†	+			·····		
SDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	х	x	X	1						1	+		+					
WDEF1 @ Surface		Soil	3/17/2022		0'	1/NO	X	X	x						· · · · · · · · · · · · · · · · · · ·	1		+	+	1	-			
WDEF1 @ 4'		Soil	3/17/2022		4'	1/NO	х	X	x							1	1	†	+					
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		e applied to	veren project an	iu a cilalge oi a	o for each samp	le submi	tted to	Xenco,	but not	analyze	d. These	e terms	will be (enforce	d unle	ss prev	lously r	egotiat	ed.					
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5										6					~~	1								

Revised Date 101419 Rev. 2019.1

Received by OCD: 11/10/2022 9:48:19 AM



Chain of Custody

13

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



							,	Atlanta,	GA (7)	70) 449	8800												
Project Manager:	Joel Lowry Bill to: (if differe							f different) Camille Bryant							www.xenco.com Page 1 of 1								
Company Name:	Etech Environmental and Safety Compan														Work Order Comments Program: UST/PST PRF Brownfield RR Superfund								
Address:	2617 West Marland Addr																		RH_] B	rownf	ield I	R¶∐ Su	perfund
City, State ZIP:					City, State ZIP:																		
Phone:	(575) 264-9884 Email: Email Resul						PM@	Detec	henv		Clion	•]	Reporting:Level Level PST/U TRF Level Deliverables: EDD ADaPT Other:								evel_/
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SAMPLE RECE	IPT Te	mp Blank	Yes No	Wet Ice:	Kes No	- a	1													N	one: NO		
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Sample Identification Matrix Date Time Depth				Numbe Code	BTEX (8021)	TPH (Modified Ext.)	CI- (E300)													ple Com			
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WW		Soil	3/17/2022		~	1/NO	х	X	X	1		1		<u> </u>	<u> </u>								
FL1 @ 3'		Soil	3/17/2022		3'	1/NO	х	X	X		<u> </u>			<u> </u>	<u> </u>								
FL2 @ 3'		Soil	3/17/2022		3'	1/NO	х	X	X		<u> </u>			†	 								
FL3 @ 3'		Soil	3/17/2022		3,	1/NO	Х	X	X														
FL4 @ 3'		Soil	3/17/2022		3'	1/NO	Х	X	X					<u> </u>									
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			laiyzeu	ICLEISEL	.F 0010: 81	KURA	SD .	As B	a Be	Cd C	r Co	Cu F	b Mi	n Mo	NIS	e Ag	TIU			1631	/ 245.1	17470 1	7471 : Hg
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Revised Date101419 Rev. 2019.1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 2099 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-2099-2 SDG Number: 15785

List Source: Eurofins Carlsbad

Job Number: 890-2099-2 SDG Number: 15785

List Source: Eurofins Midland

List Creation: 03/18/22 11:38 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 2099 List Number: 2 Creator: Rodriguez, Leticia

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Appendix D Photographic Log



Appendix E Regulatory Correspondence

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, October 28, 2022 8:38 AM
To: Karolanne Hudgens <<u>KHudgens@paalp.com</u>>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 120341

Caution: The email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Karolanne Hudgens for PLAINS MARKETING L.P.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2207347201, for the following reasons:

The deferral request is denied. The report contains an incorrect Section Township Range. The OCD doesn't agree with depth to water determination. POD Number C 01522 has a well depth of 150', but no depth to water measurement. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling a borehole to determine the depth to groundwater.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 120341.

Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Robert Hamlet 575-748-1283 Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator: (OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	157654
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
rhamlet	The Plains deferral requests to complete final remediation during any future major construction/alteration or decommissioning of the facility, whichever occurs first. Plains and Etech Environmental do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are sample locations "EDEF1", "NDEF1", "SDEF1", and "WDEF1". The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	2/1/2023

CONDITIONS

Action 157654