Page 1 of 76

Incident ID	nAPP2120130933
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no fater than 70 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗸 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗸 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗸 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	✓ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗸 No
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

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

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

Received by OCD: 9/28/2021 2:48:57 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

-	Page 2 of	<i>76</i>
Incident ID	nAPP2120130933	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name: Jacqui Harris	Title: Environmental Coordinator							
Signature: Jacqui Assiis	Date:9.27.21							
email: jacqui.harris@conocophillips.com	Telephone: (575)745-1807							
OCD Only								
Received by:	Date:							

Page 3 of 76 Incident ID nAPP2120130933 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e 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 co	nfirmed as part of any request for deferral of remediation.								
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility								
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.								
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of								
Printed Name: Jacqui Harris	Title: Environmental Coordinator								
Signature: Jacqui Thoris	Date:9.27.21								
email: jacqui.harris@conocophillips.com	Telephone: (575)745-1807								
OCD Only									
Received by:	Date:								
☐ Approved ☐ Approved with Attached Conditions of									
Signature:	<u>Date:</u>								

Site Assessment Report & Proposed Remediation Workplan

COG Operating, LLC Mamba Federal Com 702H

Eddy County, New Mexico
Unit Letter "B", Section 34, Township 25 South, Range 28 East
Latitude 32.090719 North, Longitude 104.071325 West
NMOCD Reference No. nAPP2120130933

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Bar J. Arguijo

Joel W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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Appendix B - Field Data & Soil Profile Logs

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Site Assessment Report & Proposed Remediation Workplan* for the release site known as the Mamba Federal Com 702H (henceforth, "Site"). Details of the release are summarized below:

			Location	on of Release S	ource				
Latitude:		32.0	90719	:	-104.071325				
			Provid	led GPS are in WGS84 for	mat.				
Site Name: Mamba Federal Com 702H Site Type: Pipeline									
Date Release Dis	covere	d:	6/28/2021	API # (if appl	icable):	N/A			
Unit Letter	Sec	tion	Township	Range	County	y			
"B"	3	4	25S	28E	Eddy				
Surface Owner:	X Sta	te	Federal Tribal	Private (Na	Release				
Crude Oil		Volum	ne Released (bbls)		Volume 1	Recovered (bbls)			
Produced W	ater	Volum	ne Released (bbls)	39	Volume l	Recovered (bbls) 0			
	es No N/A								
Condensate		Volum	ne Released (bbls)		Volume l	Recovered (bbls)			
Natural Gas	3	Volum	ne Released (Mcf)		Volume l	Recovered (Mcf)			
Other (desc	ribe)	Volum	e/Weight Released		Volume/V	Weight Recovered			
the pasture to flo	caused ood an	d move	•	ainst a t-post, which	h punctured th	e rains caused the low-lying area of ne line. The release of treated			
			I	nitial Response					
X The source of	of the re	elease ha	as been stopped.						
X The impacte	d area l	nas beer	n secured to protect hu	ıman health and the	environment.				
Release mate	erials h	ave been	n contained via the us	e of berms or dikes,	absorbent pad	, or other containment devices			
All free liqui	ids and	recover	able materials have b	een removed and m	anaged annron	riately.			

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?		40'
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?	X Yes	No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS 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 Standards for the Site are as follows:

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

^{*} Measured in milligrams per kilogram (mg/kg)

[†] Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

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

4.0 INITIAL SITE ASSESSMENT

On July 9, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP1 through SP5) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores (NH1, EH1, SH1, and WH1) were advanced at the inferred edges of the primary pooling area of the release (characterized by sample location SP1) in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 18 delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', SH1 @ Surface, SH1 @ 1', WH1 @ Surface, WH1 @ 1', SP1 @ Surface, SP1 @ 4', SP2 @ Surface, SP2 @ 1', SP3 @ Surface, SP3 @ 1', SP4 @ Surface, SP4 @ 1', SP5 @ Surface, and SP5 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined. Soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards beyond four (4) feet below ground surface (bgs) in the area characterized by sample point SP1. Soil was not affected above background concentrations in the runoff area characterized by sample points SP2 through SP5.

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

5.0 PROPOSED REMEDIATION PLAN

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

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards adjacent to the release point and in the primary pooling area (characterized by sample point SP1) to an estimated depth of four (4) feet bgs. Based on laboratory analytical results, no excavation will be conducted in the runoff area characterized by sample points SP2 through SP5.
- Advance the sidewalls and floor of the excavated area until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria and NMOCD Reclamation Standards.
- Transport excavated soil to an NMOCD-permitted surface waste facility for disposal.
- Upon receiving laboratory analytical results from confirmation soil samples, backfill the excavated area with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative composite confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. A minimum of one (1) representative composite confirmation soil sample will be collected from the base of the excavated area representing every 200 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE & ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within ninety (90) days of receiving necessary approval(s) of the *Site Assessment Report & Proposed Remediation Workplan*. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately 1,280 cubic yards of impacted soil is in need of removal.

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the Site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Report & Proposed Remediation Workplan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. 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 COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

10.0 DISTRIBUTION

COG Operating, LLC

600 West Illinois Avenue Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

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

New Mexico State Land Office

2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map

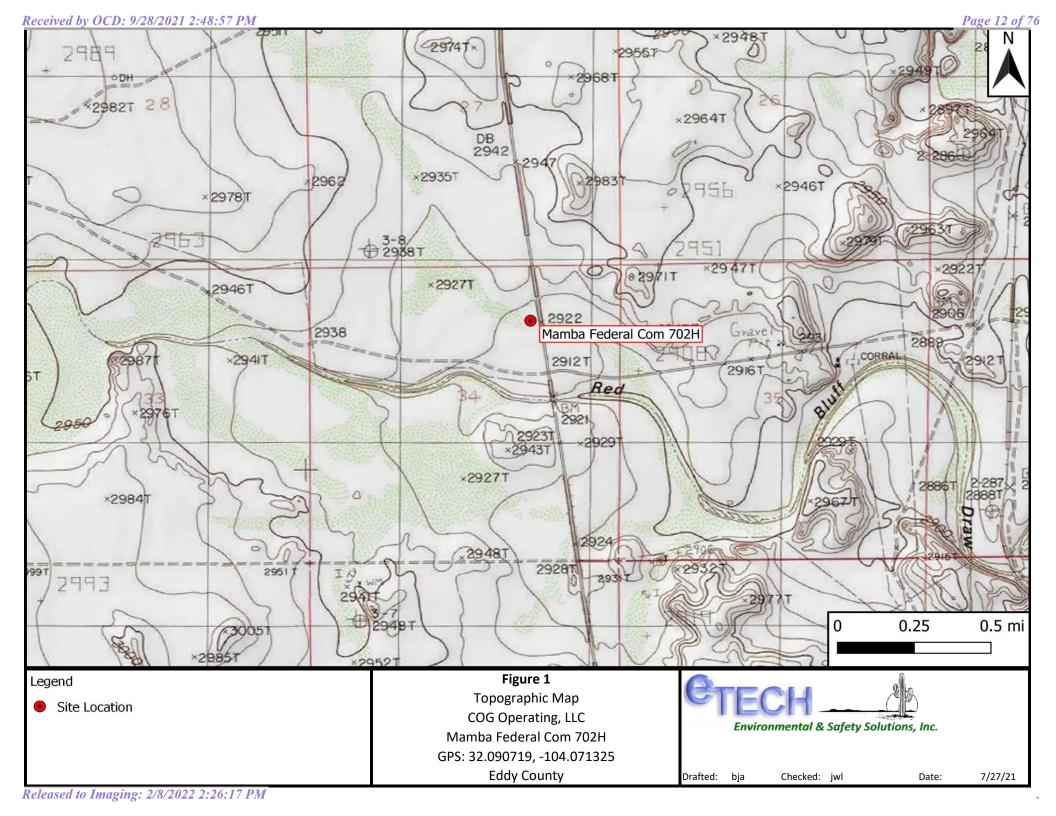


Figure 2 Aerial Proximity Map

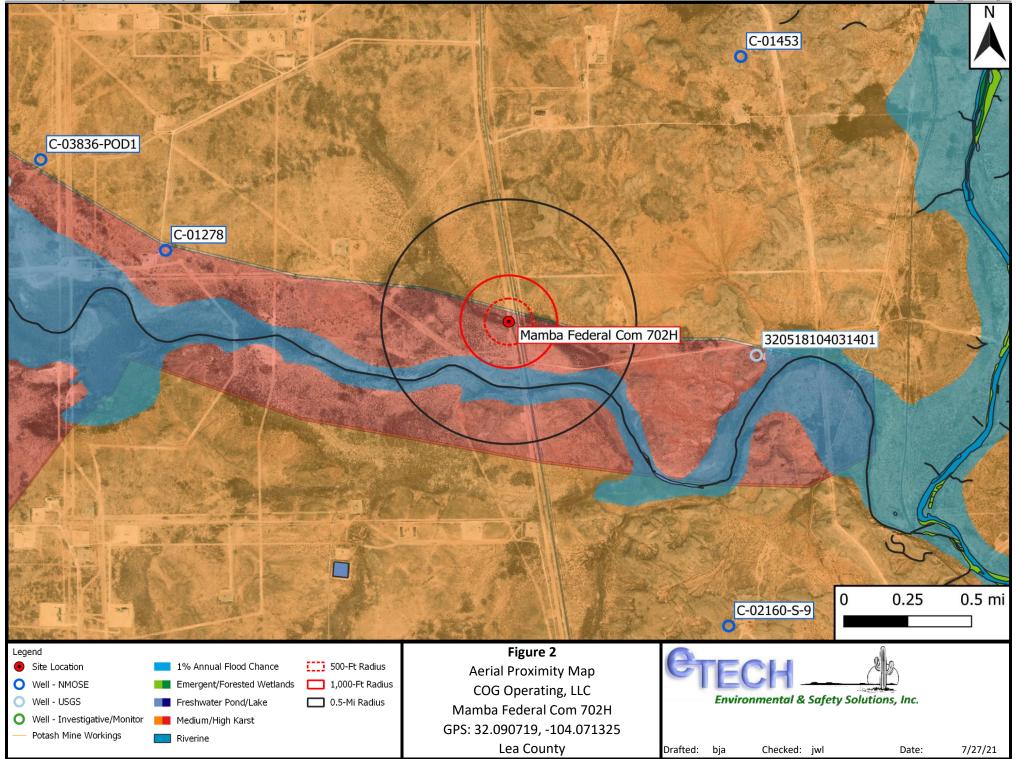


Figure 3 Site & Sample Location Map



Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Mamba Federal Com 702H NMOCD Ref. #: nAPP2120130933											
NMOCD Closure Criteria 10 50 100											600
	Reclamation			10	50	-	_	_	_	100	600
				SW 840	6 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)
NH1 @ Surface	7/9/2021	0	In-Situ	< 0.00199	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 5.00
NH1 @ 1'	7/9/2021	1	In-Situ	< 0.00198	< 0.00396	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	<4.96
EH1 @ Surface	7/9/2021	0	In-Situ	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	11.8
EH1 @ 1'	7/9/2021	1	In-Situ	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	10.2
SH1 @ Surface	7/9/2021	0	In-Situ	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	12.0
SH1 @ 1'	7/9/2021	1	In-Situ	< 0.00199	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	212
WH1 @ Surface	7/9/2021	0	In-Situ	< 0.00201	< 0.00402	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	201
WH1 @ 1'	7/9/2021	1	In-Situ	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	224
SP1 @ Surface	7/9/2021	0	In-Situ	< 0.00198	< 0.00397	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	2,250
SP1 @ 4'	7/9/2021	4	In-Situ	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	275
SP2 @ Surface	7/9/2021	0	In-Situ	< 0.00202	< 0.00403	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	176
SP2 @ 1'	7/9/2021	1	In-Situ	< 0.00200	< 0.00399	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	195
SP3 @ Surface	7/9/2021	0	In-Situ	< 0.00200	< 0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	40.7
SP3 @ 1'	7/9/2021	1	In-Situ	< 0.00199	< 0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	11.1
SP4 @ Surface	7/9/2021	0	In-Situ	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	31.5
SP4 @ 1'	7/9/2021	1	In-Situ	< 0.00200	< 0.004 01	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	121
SP5 @ Surface	7/9/2021	0	In-Situ	< 0.00200	< 0.00401	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	41.2

<49.9

<49.9

<49.9

<49.9

<49.9

44.6

In-Situ | <0.00200 | <0.00399

SP5 @ 1'

7/9/2021

Appendix A Depth to Groundwater Information



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD Sub-		000							Denth	Depth	Water
POD Number	Code basin	County			Tws	Rng	Х	Υ	Distance	•	-	Column
C 02477	CUB	ED	1 1	03	26S	28E	586687	3549347* 🌍	1791	150		
C 01278	С	ED	4 3	3 28	25S	28E	585470	3551338*	2213	205	90	115
C 01453	С	ED	1 2	2 26	25S	28E	589096	3552612* 🎒	2275	70	40	30

Average Depth to Water: 65 feet

Minimum Depth: 40 feet

Maximum Depth: 90 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 587633.52 Northing (Y): 3550868.6 Radius: 2414

*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

1 1 03 26S 28E

586687 3549347*

9

Driller License: Driller Company:

Driller Name: HEPLER BROS

C 02477

Drill Start Date:Drill Finish Date:12/31/1912Plug Date:Log File Date:PCW Rcv Date:Source:

Pump Type: Pipe Discharge Size: Estimated Yield: 6 GPM

Casing Size: 6.00 Depth Well: 150 feet Depth Water:

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.

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec 3

X

Y

C 01278

Q64 Q16 Q4 Sec Tws Rng 4 3 28 25S 28E

5470 3551338*

Driller License: 46

Driller Company:

D 111 N

ABBOTT BROTHERS COMPANY

Driller Name:

ABBOTT, MUNELL

Drill Finish Date:

04/08/1965

Plug Date:

Drill Start Date: Log File Date: 04/04/1965 05/27/1965

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

.......

Estimated Yield:

Casing Size:

Depth Well:

205 feet

Depth Water:

90 feet

Water Bearing Stratifications:

Top Bottom Description

105

110 Sandstone/Gravel/Conglomerate

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.

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

Y

C 01453

1 2 26 25S 28E

589096 3552612*

9

Driller License: 3

Driller Company:

BARRON, EMMETT

Driller Name: BARRON, EMMETT

07/17/1971

Drill Finish Date:

07/20/1971

Plug Date:

Drill Start Date: Log File Date:

08/02/1971

6.00

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

70 feet

Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description

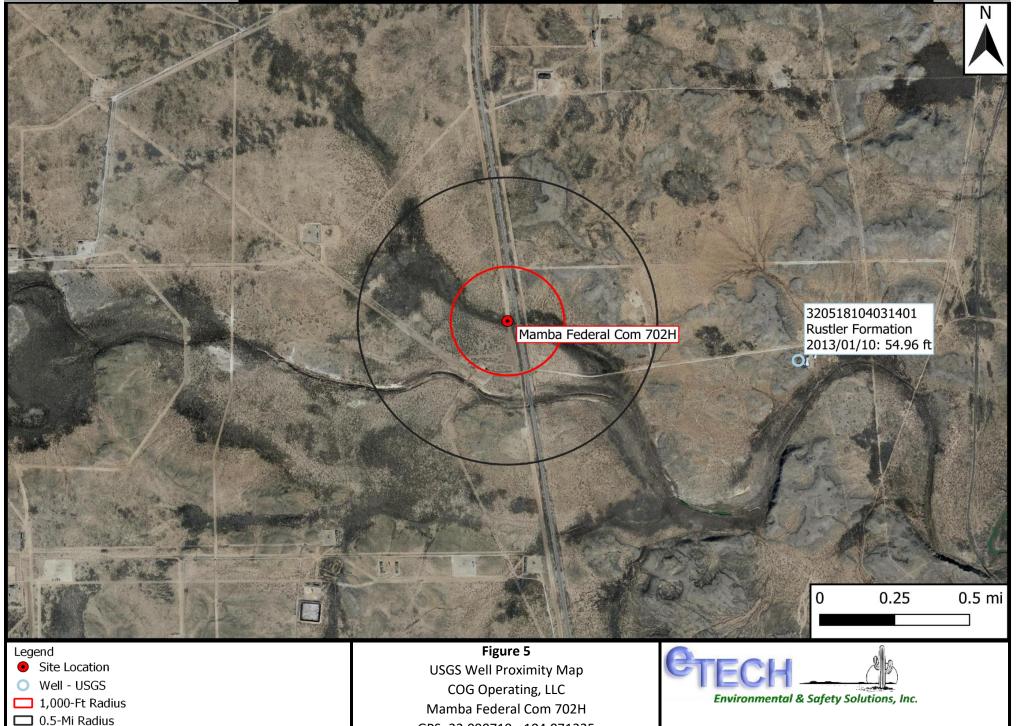
50

70 Shale/Mudstone/Siltstone

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.

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



GPS: 32.090719, -104.071325 Eddy County

Drafted: bja

Checked: jwl

Date:

7/27/21



National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category: Geographic Area:

Groundwater ✓ United States ✓ GO

Click forNews Bulletins

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 320518104031401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320518104031401 25S.28E.35.2324

Eddy County, New Mexico
Latitude 32°05'19.0", Longitude 104°03'17.3" NAD83
Land-surface elevation 2,897 feet above NGVD29
The depth of the well is 180 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

				Outpt	at ioiiiiats			
Table of data								
Tab-separated da	ata .							
Graph of data								
Reselect period								
	2	W	later	Water				2

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1982-12-08		D	72019	45.85			1	9	S USGS	S	Α
1987-10-14		D	72019	42.01			1	9	S USGS	S	А
1998-01-23		D	72019	53.18			1	S	S USGS	S	Α
2003-02-10		D	72019	54.32			1	9	S USGS	S	А
2013-01-10	18:00 UTC	m	72019	54.96			1	9	USGS	S	Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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

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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-08-12 16:40:43 EDT

0.44 0.25 nadww01



Appendix B Field Data & Soil Profile Logs



Sample Log

Date: 7/4/21	e: 7/9/21	
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Project:

Momba Lay Flat Line Release

Project Number:

14434 32.090719 Latitude: Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
FI @ surface	~	6408	
SPI @ I'	-	4036	
(0) (0) 2	-	128	
503 @3' 504 @4'	-	928	
P4 @4'	***	240	
suffice QC4	_	500	
P3 @ surface	-	156	
P3@ surface	~	212	
1410 Surtace		7112	
UH 1@ 1'	-	>1/2	
HI @ surface	-	298	
H101'	-	>112	
EH I @ Surface	_	272	
4101'	_	212	
JHI @ 10 surface		240	
VHIQ1'		156	
873@1'		132	
PUR surface	~	132	
1 W P4 ()	_	212	
PS @ Surture	_	156	
595 @ Y	~	272	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas
JIGGTON - STETTE CLC		23	
•			



Soil Profile

Project: Momba Lay	Flat Line Release				9 2021
Project Number:	14434	Latitude:	32.090719	Longitude:	-104.071325
Pepth (ft. bgs)			Des	cription	
1	44 10014 41 00014 11 11 17 1000000000000	731432 11950/15690-15790/15010(1130-1950-1657) 1181111111111111111111111111111111111	137153515065597783416753556565656565656565656565656565656565	ERFELDER FATTE AND AN ENGAGE COMMENTERS EITH ENGAGONOMER EITH BETRUM BENGAND AN GAN AN ENGAGON AN GAN AN AN CH	инимплания мараканык боюкоо колдо курнитини инимплана кананан кананан кананан кананан канана канана канана кан
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Received by OCD: 9/28/2021 2:48:57 PM

Appendix C Laboratory Analytical Reports

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-918-1

Laboratory Sample Delivery Group: 14434 Client Project/Site: Momba Lay Flatline Release

For:

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

Attn: PM List

KRAMER

Authorized for release by: 7/15/2021 3:16:57 PM

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

.....LINKS

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o/Env

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

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

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Client: Etech Environmental & Safety Solutions

Laboratory Job ID: 890-918-1 SDG: 14434

Project/Site: Momba Lay Flatline Release

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Definitions/Glossary

Job ID: 890-918-1 Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

SDG: 14434

Qualifiers

GC VOA Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

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

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

MDL Method Detection Limit 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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Job ID: 890-918-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-918-1

Comments

No additional comments.

Receipt

The samples were received on 7/9/2021 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 10.0° C.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP1 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-1

07/14/21 14:36

07/14/21 14:36

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
Total BTEX	<0.00397	U F1	0.00397	mg/Kg		07/13/21 15:04	07/14/21 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			07/13/21 15:04	07/14/21 06:05	1
	0.4		70 - 130			07/13/21 15:04	07/14/21 06:05	1
1,4-Difluorobenzene (Surr)	84		70 - 130			07/13/21 13.04	01714721 00.00	,
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ra		RO) (GC)	70 - 130			07/13/21 13:04	01714721 00.00	•
·	inge Organics (D	RO) (GC) Qualifier	70 - 730 RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Ra	inge Organics (D	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	0	7/14/21 08:43	07/14/21 14:36	1
o-Terphenyl	128		70 - 130	0	7/14/21 08:43	07/14/21 14:36	1
_							

50.0

50.0

mg/Kg

mg/Kg

07/14/21 08:43

07/14/21 08:43

<50.0 U

<50.0 U

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2250		24.9	mg/Kg			07/13/21 20:47	5

Client Sample ID: SP1 @ 4

OII Range Organics (Over C28-C36)

Total TPH

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/13/21 15:04	07/14/21 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			07/13/21 15:04	07/14/21 06:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			07/13/21 15:04	07/14/21 06:26	1
Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 15:38	1
(GRO)-C6-C10								

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-918-2 **Matrix: Solid** Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1 SDG: 14434

Lab Sample ID: 890-918-2

Lab Sample ID: 890-918-3

Matrix: Solid

Matrix: Solid

Client Sample ID: SP1 @ 4 Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 15:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 15:38	1
Total TPH	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			07/14/21 08:43	07/14/21 15:38	1
o-Terphenyl	119		70 - 130			07/14/21 08:43	07/14/21 15:38	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	rtoouit							

Client Sample ID: SP2 @ surface

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
Xylenes, Total	< 0.00403	U	0.00403	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/13/21 15:04	07/14/21 06:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			07/13/21 15:04	07/14/21 06:46	1
1,4-Difluorobenzene (Surr)	111		70 - 130			07/13/21 15:04	07/14/21 06:46	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			07/14/21 08:43	07/14/21 15:59	1
o-Terphenyl	124		70 - 130			07/14/21 08:43	07/14/21 15:59	1

	Method: 300.0 - Anions, Ion Chrom	atography - Solub	ole					
	Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	176	25.2	mg/Kg			07/13/21 21:09	5

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP2 @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Sample Depth: - 1

Lab	Sample	ID: 890-918-4
		Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/13/21 15:04	07/14/21 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			07/13/21 15:04	07/14/21 07:07	1

1,4-Difluorobenzene (Surr) 105 70 - 130 07/13/21 15:04 07/14/21 07:07

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 16:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 16:20	,
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 16:20	•
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 16:20	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			07/14/21 08:43	07/14/21 16:20	1

o-Terphenyl	110	70 - 130		07	7/14/21 08:43 0	7/14/21 16:20	1
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

25.1

mg/Kg

Client Sample ID: SP3 @ surface Lab Sample ID: 890-918-5

195

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 07:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			07/13/21 15:04	07/14/21 07:28	1
1,4-Difluorobenzene (Surr)	104		70 - 130			07/13/21 15:04	07/14/21 07:28	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 16:40	1

Eurofins Xenco, Carlsbad

Matrix: Solid

07/13/21 21:15

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP3 @ surface

Lab Sample ID: 890-918-5

07/14/21 12:37

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 16:40	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 16:40	1
Total TPH	<49.8	U	49.8	mg/Kg		07/14/21 08:43	07/14/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			07/14/21 08:43	07/14/21 16:40	1
o-Terphenyl	121		70 - 130			07/14/21 08:43	07/14/21 16:40	1
- Mathada (2000) Addays Jay Okas		0 - 1 - 1 - 1 -						
Method: 300.0 - Anions, Ion Chro	omatograpny -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SP3 @ 1 Lab Sample ID: 890-918-6 Date Collected: 07/09/21 00:00 **Matrix: Solid**

5.01

mg/Kg

40.7

Date Received: 07/09/21 15:12

Sample Depth: - 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
Toluene	< 0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 07:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/13/21 15:04	07/14/21 07:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130			07/13/21 15:04	07/14/21 07:48	1
Method: 8015B NM - Diesel Ranç Analyte	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics	• • •	Qualifier	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 07/14/21 08:43	Analyzed 07/14/21 17:01	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7	Qualifier U	49.7	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 17:01	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7	Qualifier U	49.7	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 17:01	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	Qualifier U U	49.7	mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43	07/14/21 17:01 07/14/21 17:01	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.7 <49.7 <49.7	Qualifier U U U U	49.7 49.7 49.7	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43	07/14/21 17:01 07/14/21 17:01 07/14/21 17:01	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.7 <49.7 <49.7 <49.7 <49.7	Qualifier U U U U	49.7 49.7 49.7 49.7	mg/Kg mg/Kg mg/Kg	<u> </u>	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 07/14/21 08:43	07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 07/14/21 17:01	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.7 49.7 49.7 49.7 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 <i>Prepared</i>	07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.7 49.7 49.7 49.7 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 Prepared 07/14/21 08:43	07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 Analyzed 07/14/21 17:01	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7 <49.7 <49.7 <49.7 <49.7 <49.7 7	Qualifier U U U Qualifier	49.7 49.7 49.7 49.7 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 Prepared 07/14/21 08:43	07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 07/14/21 17:01 Analyzed 07/14/21 17:01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP4 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-7

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/13/21 15:04	07/14/21 08:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			07/13/21 15:04	07/14/21 08:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130			07/13/21 15:04	07/14/21 08:09	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 17:22	1
Diesel Range Organics (Over	<49.9	11	49.9	ma/Ka		07/14/21 08:43	07/14/21 17:22	1

07/14/21 08:43 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/14/21 08:43 07/14/21 17:22 Total TPH 07/14/21 08:43 07/14/21 17:22 <49.9 U 49.9 mg/Kg Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 111 70 - 130 07/14/21 08:43 07/14/21 17:22

_								
Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	31.5	5.03	mg/Kg			07/14/21 12:48	1	

70 - 130

133 S1+

Client Sample ID: SP4 @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Sample Depth: - 1

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 15:04	07/14/21 08:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			07/13/21 15:04	07/14/21 08:29	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/13/21 15:04	07/14/21 08:29	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 17:43	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-918-8 **Matrix: Solid**

07/14/21 17:22

07/14/21 08:43

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP4 @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-8 Matrix: Solid

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 17:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 17:43	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			07/14/21 08:43	07/14/21 17:43	1
o-Terphenyl	109		70 - 130			07/14/21 08:43	07/14/21 17:43	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte								

Client Sample ID: SP5 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-9 **Matrix: Solid**

Method: 8021B - Volatile Orga	nic Compounds	(GC)					07/14/21 08:50 07/14/21 08:50	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/13/21 15:04	07/14/21 08:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/13/21 15:04	07/14/21 08:50	1
1 / Diffuorabanzana (Surr)	100		70 120			07/12/21 15:04	07/14/21 00:50	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/13/21 15:04	07/14/21 08:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130			07/13/21 15:04	07/14/21 08:50	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 18:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 18:03	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			07/14/21 08:43	07/14/21 18:03	1
o-Terphenyl	124		70 - 130			07/14/21 08:43	07/14/21 18:03	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		4.97	mg/Kg			07/15/21 11:38	1

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP5 @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Sample Depth: - 1

Lab Sample ID: 890-918-10

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/13/21 15:04	07/14/21 09:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			07/13/21 15:04	07/14/21 09:11	1
1,4-Difluorobenzene (Surr)	111		70 - 130			07/13/21 15:04	07/14/21 09:11	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

<49.9 U 07/14/21 08:43 Gasoline Range Organics 49.9 mg/Kg 07/14/21 18:24 (GRO)-C6-C10 Diesel Range Organics (Over 07/14/21 08:43 <49.9 U 49.9 mg/Kg 07/14/21 18:24 C10-C28) OII Range Organics (Over C28-C36) 49.9 07/14/21 08:43 07/14/21 18:24 <49.9 U mg/Kg Total TPH <49.9 U 49.9 mg/Kg 07/14/21 08:43 07/14/21 18:24 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 100 70 - 130 07/14/21 08:43 07/14/21 18:24

o-Terphenyl 121 70 - 130 07/14/21 08:43 07/14/21 18:24 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

5.05

mg/Kg

44.6

Client Sample ID: NH1 @ surface

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 10:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/13/21 15:04	07/14/21 10:34	1
1,4-Difluorobenzene (Surr)	93		70 - 130			07/13/21 15:04	07/14/21 10:34	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:06	

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07/15/21 11:44

Lab Sample ID: 890-918-11

Matrix: Solid

(GRO)-C6-C10

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: NH1 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-11

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:06	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:06	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			07/14/21 08:43	07/14/21 19:06	1
o-Terphenyl	124		70 - 130			07/14/21 08:43	07/14/21 19:06	1

RL

5.00

Unit

mg/Kg

D

Prepared

Result Qualifier

<5.00 U

Lab Sample ID: 890-918-12

Analyzed

07/14/21 20:32

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: NH1 @ 1

Sample Depth: - 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 10:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			07/13/21 15:04	07/14/21 10:55	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/13/21 15:04	07/14/21 10:55	1
Analyte Gasoline Range Organics	- Kesuit - <50.0	Qualifier U	RL	Unit mg/Kg	D	Prepared 07/14/21 08:43	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rand	no Organico (D	BO) (CC)						
Gasoline Range Organics	<50.0	U	50.0					
(GRO)-C6-C10				mg/rkg		07/14/21 00.43	07/14/21 19:27	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:27	1
, ,	<50.0	U						1
Diesel Range Organics (Over	<50.0 <50.0							1 1 1
Diesel Range Organics (Over C10-C28)		U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:27	1 11
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0 50.0	mg/Kg mg/Kg		07/14/21 08:43 07/14/21 08:43	07/14/21 19:27 07/14/21 19:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<50.0 <50.0	U	50.0 50.0 50.0	mg/Kg mg/Kg		07/14/21 08:43 07/14/21 08:43 07/14/21 08:43	07/14/21 19:27 07/14/21 19:27 07/14/21 19:27	11
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<50.0 <50.0	U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg		07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 Prepared	07/14/21 19:27 07/14/21 19:27 07/14/21 19:27 Analyzed	11
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.0 <50.0 %Recovery 105 125	U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg		07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 Prepared 07/14/21 08:43	07/14/21 19:27 07/14/21 19:27 07/14/21 19:27 Analyzed 07/14/21 19:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 	U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg	D	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 Prepared 07/14/21 08:43	07/14/21 19:27 07/14/21 19:27 07/14/21 19:27 Analyzed 07/14/21 19:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Dil Fac

Matrix: Solid

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1 SDG: 14434

Client Sample ID: EH1 @ surface

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-13 Date Collected: 07/09/21 00:00

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 11:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			07/13/21 15:04	07/14/21 11:16	1
1,4-Difluorobenzene (Surr)	109		70 - 130			07/13/21 15:04	07/14/21 11:16	1

Result Qualifier Analyte Unit Analyzed Dil Fac RL Prepared Gasoline Range Organics <49.9 U 49.9 mg/Kg 07/14/21 08:43 07/14/21 19:47 (GRO)-C6-C10 Diesel Range Organics (Over 07/14/21 08:43 <49.9 U 49.9 mg/Kg 07/14/21 19:47 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/14/21 08:43 07/14/21 19:47 Total TPH 07/14/21 08:43 07/14/21 19:47 <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 70 - 130

Analyte	Result Qualifier	RL	Unit	_ D _	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
o- rerpnenyi	127	70 - 130			07/14/21 08:43	07/14/21 19:47	7

105

11.8

Client Sample ID: EH1 @ 1 Lab Sample ID: 890-918-14 Date Collected: 07/09/21 00:00

4.99

mg/Kg

Matrix: Solid

07/15/21 11:49

Date Received: 07/09/21 15:12 Sample Depth: - 1

1-Chlorooctane

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/13/21 15:04	07/14/21 11:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			07/13/21 15:04	07/14/21 11:36	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/13/21 15:04	07/14/21 11:36	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:08	1

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: EH1 @ 1

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-14

Matrix: Solid

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:08	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:08	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			07/14/21 08:43	07/14/21 20:08	1
o-Terphenyl	118		70 - 130			07/14/21 08:43	07/14/21 20:08	1
- Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Michiga, 600.0 - Among, for our								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SH1 @ Surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-15

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/13/21 15:04	07/14/21 11:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			07/13/21 15:04	07/14/21 11:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/13/21 15:04	07/14/21 11:57	1
- Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:29	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Method: 300.0 - Anions, Ion Chrom	atography - Sol	uble					
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.0	5.05	mg/Kg			07/15/21 12:00	1

70 - 130

70 - 130

98

115

Eurofins Xenco, Carlsbad

07/14/21 08:43 07/14/21 20:29

1-Chlorooctane o-Terphenyl

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SH1 @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Sample Depth: - 1

Lab Sample ID: 890-918-16

Lab Sample ID: 890-918-17

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			07/13/21 15:04	07/14/21 12:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130			07/13/21 15:04	07/14/21 12:18	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 20:50	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 20:50	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 20:50	
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 20:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130			07/14/21 08:43	07/14/21 20:50	

Method: 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	212	4.98	mg/Kg			07/14/21 20:59	1	

70 - 130

104

Client Sample ID: WHI @ surface

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/13/21 15:04	07/14/21 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			07/13/21 15:04	07/14/21 12:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130			07/13/21 15:04	07/14/21 12:38	1
- Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 21:11	1

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Released to Imaging: 2/8/2022 2:26:17 PM

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: WHI @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 21:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 21:11	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 21:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			07/14/21 08:43	07/14/21 21:11	1
o-Terphenyl	105		70 - 130			07/14/21 08:43	07/14/21 21:11	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
								$\overline{}$

Client Sample ID: WHI @ 1 Lab Sample ID: 890-918-18 Date Collected: 07/09/21 00:00 Matrix: Solid

Date Received: 07/09/21 15:12

Sample Depth: - 1

Method: 8021B - Volatile Orga Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
·								— in rac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			07/13/21 15:04	07/14/21 12:59	1
1.4-Difluorobenzene (Surr)	115		70 - 130			07/13/21 15:04	07/14/21 12:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 21:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 21:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 21:32	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			07/14/21 08:43	07/14/21 21:32	1
o-Terphenyl	108		70 - 130			07/14/21 08:43	07/14/21 21:32	1

RL

25.0

Unit

mg/Kg

Result Qualifier

224

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Analyzed

07/14/21 21:59

Prepared

D

Dil Fac

Analyte

Chloride

Surrogate Summary

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limit
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-918-1	SP1 @ surface	129	84	
890-918-1 MS	SP1 @ surface	110	95	
890-918-1 MSD	SP1 @ surface	122	106	
890-918-2	SP1 @ 4	116	103	
890-918-3	SP2 @ surface	131 S1+	111	
390-918-4	SP2 @ 1	114	105	
890-918-5		115		
	SP3 @ surface		104	
390-918-6	SP3 @ 1	113	108	
890-918-7	SP4 @ surface	106	90	
390-918-8	SP4 @ 1	117	105	
390-918-9	SP5 @ surface	117	109	
90-918-10	SP5 @ 1	122	111	
390-918-11	NH1 @ surface	98	93	
390-918-12	NH1 @ 1	121	102	
390-918-13	EH1 @ surface	114	109	
390-918-14	EH1 @ 1	126	110	
390-918-15	SH1 @ Surface	125	105	
390-918-16	SH1 @ 1	120	106	
390-918-17	WHI @ surface	112	97	
390-918-18	WHI @ 1	116	115	
LCS 880-5111/1-A	Lab Control Sample	107	96	
_CSD 880-5111/2-A	Lab Control Sample Dup	98	85	
MB 880-5106/5-A	Method Blank	114	79	
MB 880-5111/5-A	Method Blank	124	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-918-1	SP1 @ surface	106	128	
90-918-1 MS	SP1 @ surface	96	102	
90-918-1 MSD	SP1 @ surface	91	96	
90-918-2	SP1 @ 4	102	119	
90-918-3	SP2 @ surface	105	124	
90-918-4	SP2 @ 1	97	110	
90-918-5	SP3 @ surface	103	121	
90-918-6	SP3 @ 1	106	122	
90-918-7	SP4 @ surface	111	133 S1+	
90-918-8	SP4 @ 1	96	109	
90-918-9	SP5 @ surface	104	124	
90-918-10	SP5 @ 1	100	121	
90-918-11	NH1 @ surface	104	124	
90-918-12	NH1 @ 1	105	125	
90-918-13	EH1 @ surface	105	127	

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-918-1 Project/Site: Momba Lay Flatline Release SDG: 14434

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-918-14	EH1 @ 1	100	118	
890-918-15	SH1 @ Surface	98	115	
890-918-16	SH1 @ 1	93	104	
890-918-17	WHI @ surface	93	105	
890-918-18	WHI @ 1	94	108	
LCS 880-5136/2-A	Lab Control Sample	111	121	
LCSD 880-5136/3-A	Lab Control Sample Dup	107	118	
MB 880-5136/1-A	Method Blank	109	130	
Surrogate Legend				

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5106/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 5114

Client Sample	ID: Method Blank
----------------------	------------------

Prep Type: Total/NA

Prep Batch: 5106

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/13/21 14:47	07/13/21 18:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 14:47	07/13/21 18:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/13/21 14:47	07/13/21 18:49	1
1,4-Difluorobenzene (Surr)	79		70 - 130	07/13/21 14:47	07/13/21 18:49	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5111

Analysis Batch: 5114

Lab Sample ID: MB 880-5111/5-A

MB MB

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 05:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 05:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 05:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 05:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 15:04	07/14/21 05:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 05:43	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 15:04	07/14/21 05:43	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/13/21 15:04	07/14/21 05:43	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/13/21 15:04	07/14/21 05:43	1

Lab Sample ID: LCS 880-5111/1-A

Matrix: Solid

Analysis Batch: 5114

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

Prep Batch: 5111

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1013		mg/Kg		101	70 - 130	
Toluene	0.100	0.1012		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.09894		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2096		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

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

Lab Sample ID: LCSD 880-5111/2-A

Matrix: Solid

Analysis Batch: 5114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5111

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08649		mg/Kg		86	70 - 130	16	35
Toluene	0.100	0.08834		mg/Kg		88	70 - 130	14	35
Ethylbenzene	0.100	0.08585		mg/Kg		86	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1710		mg/Kg		85	70 - 130	20	35
o-Xylene	0.100	0.08476		mg/Kg		85	70 - 130	17	35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 98 70 - 130 4-Bromofluorobenzene (Surr) 85 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-918-1 MS

Matrix: Solid

Analysis Batch: 5114

Client Sample ID: SP1 @ surface

Prep Type: Total/NA

Prep Batch: 5111

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.101	0.06322	F1	mg/Kg		62	70 - 130	
Toluene	<0.00198	U F1	0.101	0.05621	F1	mg/Kg		55	70 - 130	
Ethylbenzene	<0.00198	U F1	0.101	0.05011	F1	mg/Kg		49	70 - 130	
m-Xylene & p-Xylene	<0.00397	U F1	0.202	0.1004	F1	mg/Kg		50	70 - 130	
o-Xylene	<0.00198	U F1	0.101	0.05297	F1	mg/Kg		51	70 - 130	

0.0994

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client Sample ID: SP1 @ surface

70 - 130

Prep Type: Total/NA

Prep Batch: 5111

Matrix: Solid Analysis Batch: 5114

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Lab Sample ID: 890-918-1 MSD

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
 <0.00198	U F1	0.0994	0.06883	F1	mg/Kg		69	70 - 130	8	35
<0.00198	U F1	0.0994	0.06572	F1	mg/Kg		65	70 - 130	16	35
<0.00198	U F1	0.0994	0.05811	F1	mg/Kg		57	70 - 130	15	35
<0.00397	U F1	0.199	0.1206	F1	mg/Kg		61	70 - 130	18	35

mg/Kg

0.06041 F1

13

35

MSD MSD

<0.00198 UF1

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

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

Lab Sample ID: MB 880-5136/1-A

Matrix: Solid Analysis Batch: 5176 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 5136

MD MD

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 13:25	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 13:25	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 13:25	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 13:25	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	07/14/21 08:43	07/14/21 13:25	1
o-Terphenyl	130		70 - 130	07/14/21 08:43	07/14/21 13:25	1

Lab Sample ID: LCS 880-5136/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Analysis Batch: 5176

Prep Type: Total/NA Prep Batch: 5136

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics 1000 830.3 83 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 996.1 mg/Kg 100 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	111	70 - 130
o-Terphenyl	121	70 ₋ 130

Lab Sample ID: LCSD 880-5136/3-A

Matrix: Solid

Analysis Batch: 5176

Client Same	ile ID:	Lah	Control	Sample	Dun
Chent Sanit	יטו טוי.	Lab	COILLIO	Sample	Dup

Prep Type: Total/NA

Prep Batch: 5136

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	759.6		mg/Kg		76	70 - 130	9	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	980.6		mg/Kg		98	70 - 130	2	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-918-1 MS

Matrix: Solid

Analysis Batch: 5176

Client Sample ID: SP1 @ su	rfaco

Prep Type: Total/NA

Prep Batch: 5136

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	996	887.8		mg/Kg		89	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	996	1148		mg/Kg		113	70 ₋ 130	
C10-C28)						0 0				

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

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

1/10 1/10

Lab Sample ID: 890-918-1 MS **Matrix: Solid**

Analysis Batch: 5176

Client Sample ID: SP1 @ surface Prep Type: Total/NA

Prep Batch: 5136

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-918-1 MSD Client Sample ID: SP1 @ surface

Matrix: Solid

Analysis Batch: 5176

Prep Type: Total/NA

Prep Batch: 5136

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <50.0 U 996 899.6 90 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 996 1077 106 mg/Kg 70 - 1306 20 C10-C28)

Limits

MSD MSD %Recovery Surrogate Qualifier

91 70 - 130 1-Chlorooctane 96 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5076/1-A

Matrix: Solid

Analysis Batch: 5130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 07/13/21 18:52

Lab Sample ID: LCS 880-5076/2-A

Matrix: Solid

Analysis Batch: 5130

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.7 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-5076/3-A

Matrix: Solid

Analysis Batch: 5130

Analysis Batom 5100								
	Spike	LCSD	LCSD			%Rec.		RPD
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	RPD	Limit
Chloride	250	272.8	m	na/Ka	109	90 - 110	1	20

Lab Sample ID: MB 880-5079/1-A

Matrix: Solid

Released to Imaging: 2/8/2022 2:26:17 PM

Analysis Batch: 5203

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 07/14/21 17:36 mg/Kg

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Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Prep Type: Soluble

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

Prep Type: Soluble

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: WHI @ surface

Client Sample ID: WHI @ surface

SDG: 14434

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5079/2-A

Matrix: Solid

Analysis Batch: 5203

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 261.3 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-5079/3-A

Matrix: Solid

Analysis Batch: 5203

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 261.3 mg/Kg 105 90 - 110 0 20

Lab Sample ID: MB 880-5080/1-A

Matrix: Solid

Analysis Batch: 5204

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 07/14/21 21:27 mg/Kg

Lab Sample ID: LCS 880-5080/2-A

Matrix: Solid

Analysis Batch: 5204

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 258.9 104 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-5080/3-A

Matrix: Solid

Analysis Batch: 5204

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 259.2 mg/Kg 104 90 - 110 20

Lab Sample ID: 890-918-17 MS

Matrix: Solid

Analysis Batch: 5204

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Analyte Qualifier Unit D %Rec Limits Chloride 201 1260 1559 mg/Kg 108 90 - 110

Lab Sample ID: 890-918-17 MSD

Matrix: Solid

Analysis Batch: 5204

MSD MSD %Rec. RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec Chloride 201 1260 1568 mg/Kg 108 90 - 110 20

Eurofins Xenco, Carlsbad

7/15/2021

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

GC VOA

Prep Batch: 5106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5106/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-918-1	SP1 @ surface	Total/NA	Solid	5035	
890-918-2	SP1 @ 4	Total/NA	Solid	5035	
890-918-3	SP2 @ surface	Total/NA	Solid	5035	
890-918-4	SP2 @ 1	Total/NA	Solid	5035	
890-918-5	SP3 @ surface	Total/NA	Solid	5035	
890-918-6	SP3 @ 1	Total/NA	Solid	5035	
890-918-7	SP4 @ surface	Total/NA	Solid	5035	
890-918-8	SP4 @ 1	Total/NA	Solid	5035	
890-918-9	SP5 @ surface	Total/NA	Solid	5035	
890-918-10	SP5 @ 1	Total/NA	Solid	5035	
890-918-11	NH1 @ surface	Total/NA	Solid	5035	
890-918-12	NH1 @ 1	Total/NA	Solid	5035	
890-918-13	EH1 @ surface	Total/NA	Solid	5035	
890-918-14	EH1 @ 1	Total/NA	Solid	5035	
890-918-15	SH1 @ Surface	Total/NA	Solid	5035	
890-918-16	SH1 @ 1	Total/NA	Solid	5035	
890-918-17	WHI @ surface	Total/NA	Solid	5035	
890-918-18	WHI @ 1	Total/NA	Solid	5035	
MB 880-5111/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5111/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5111/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-918-1 MS	SP1 @ surface	Total/NA	Solid	5035	
890-918-1 MSD	SP1 @ surface	Total/NA	Solid	5035	

Analysis Batch: 5114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-1	SP1 @ surface	Total/NA	Solid	8021B	5111
890-918-2	SP1 @ 4	Total/NA	Solid	8021B	5111
890-918-3	SP2 @ surface	Total/NA	Solid	8021B	5111
890-918-4	SP2 @ 1	Total/NA	Solid	8021B	5111
890-918-5	SP3 @ surface	Total/NA	Solid	8021B	5111
890-918-6	SP3 @ 1	Total/NA	Solid	8021B	5111
890-918-7	SP4 @ surface	Total/NA	Solid	8021B	5111
890-918-8	SP4 @ 1	Total/NA	Solid	8021B	5111
890-918-9	SP5 @ surface	Total/NA	Solid	8021B	5111
890-918-10	SP5 @ 1	Total/NA	Solid	8021B	5111
890-918-11	NH1 @ surface	Total/NA	Solid	8021B	5111
890-918-12	NH1 @ 1	Total/NA	Solid	8021B	5111
890-918-13	EH1 @ surface	Total/NA	Solid	8021B	5111
890-918-14	EH1 @ 1	Total/NA	Solid	8021B	5111
890-918-15	SH1 @ Surface	Total/NA	Solid	8021B	5111
890-918-16	SH1 @ 1	Total/NA	Solid	8021B	5111
890-918-17	WHI @ surface	Total/NA	Solid	8021B	5111
890-918-18	WHI @ 1	Total/NA	Solid	8021B	5111
MB 880-5106/5-A	Method Blank	Total/NA	Solid	8021B	5106
MB 880-5111/5-A	Method Blank	Total/NA	Solid	8021B	5111
LCS 880-5111/1-A	Lab Control Sample	Total/NA	Solid	8021B	5111

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

GC VOA (Continued)

Analysis Batch: 5114 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-5111/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5111
890-918-1 MS	SP1 @ surface	Total/NA	Solid	8021B	5111
890-918-1 MSD	SP1 @ surface	Total/NA	Solid	8021B	5111

GC Semi VOA

Prep Batch: 5136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-1	SP1 @ surface	Total/NA	Solid	8015NM Prep	
890-918-2	SP1 @ 4	Total/NA	Solid	8015NM Prep	
890-918-3	SP2 @ surface	Total/NA	Solid	8015NM Prep	
890-918-4	SP2 @ 1	Total/NA	Solid	8015NM Prep	
890-918-5	SP3 @ surface	Total/NA	Solid	8015NM Prep	
890-918-6	SP3 @ 1	Total/NA	Solid	8015NM Prep	
890-918-7	SP4 @ surface	Total/NA	Solid	8015NM Prep	
890-918-8	SP4 @ 1	Total/NA	Solid	8015NM Prep	
890-918-9	SP5 @ surface	Total/NA	Solid	8015NM Prep	
890-918-10	SP5 @ 1	Total/NA	Solid	8015NM Prep	
890-918-11	NH1 @ surface	Total/NA	Solid	8015NM Prep	
890-918-12	NH1 @ 1	Total/NA	Solid	8015NM Prep	
890-918-13	EH1 @ surface	Total/NA	Solid	8015NM Prep	
890-918-14	EH1 @ 1	Total/NA	Solid	8015NM Prep	
890-918-15	SH1 @ Surface	Total/NA	Solid	8015NM Prep	
890-918-16	SH1 @ 1	Total/NA	Solid	8015NM Prep	
890-918-17	WHI @ surface	Total/NA	Solid	8015NM Prep	
890-918-18	WHI @ 1	Total/NA	Solid	8015NM Prep	
MB 880-5136/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5136/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-918-1 MS	SP1 @ surface	Total/NA	Solid	8015NM Prep	
890-918-1 MSD	SP1 @ surface	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5176

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-1	SP1 @ surface	Total/NA	Solid	8015B NM	5136
890-918-2	SP1 @ 4	Total/NA	Solid	8015B NM	5136
890-918-3	SP2 @ surface	Total/NA	Solid	8015B NM	5136
890-918-4	SP2 @ 1	Total/NA	Solid	8015B NM	5136
890-918-5	SP3 @ surface	Total/NA	Solid	8015B NM	5136
890-918-6	SP3 @ 1	Total/NA	Solid	8015B NM	5136
890-918-7	SP4 @ surface	Total/NA	Solid	8015B NM	5136
890-918-8	SP4 @ 1	Total/NA	Solid	8015B NM	5136
890-918-9	SP5 @ surface	Total/NA	Solid	8015B NM	5136
890-918-10	SP5 @ 1	Total/NA	Solid	8015B NM	5136
890-918-11	NH1 @ surface	Total/NA	Solid	8015B NM	5136
890-918-12	NH1 @ 1	Total/NA	Solid	8015B NM	5136
890-918-13	EH1 @ surface	Total/NA	Solid	8015B NM	5136
890-918-14	EH1 @ 1	Total/NA	Solid	8015B NM	5136
890-918-15	SH1 @ Surface	Total/NA	Solid	8015B NM	5136
890-918-16	SH1 @ 1	Total/NA	Solid	8015B NM	5136
890-918-17	WHI @ surface	Total/NA	Solid	8015B NM	5136

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

GC Semi VOA (Continued)

Analysis Batch: 5176 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-18	WHI @ 1	Total/NA	Solid	8015B NM	5136
MB 880-5136/1-A	Method Blank	Total/NA	Solid	8015B NM	5136
LCS 880-5136/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5136
LCSD 880-5136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5136
890-918-1 MS	SP1 @ surface	Total/NA	Solid	8015B NM	5136
890-918-1 MSD	SP1 @ surface	Total/NA	Solid	8015B NM	5136

HPLC/IC

Leach Batch: 5076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-1	SP1 @ surface	Soluble	Solid	DI Leach	
890-918-2	SP1 @ 4	Soluble	Solid	DI Leach	
890-918-3	SP2 @ surface	Soluble	Solid	DI Leach	
890-918-4	SP2 @ 1	Soluble	Solid	DI Leach	
890-918-5	SP3 @ surface	Soluble	Solid	DI Leach	
890-918-6	SP3 @ 1	Soluble	Solid	DI Leach	
890-918-7	SP4 @ surface	Soluble	Solid	DI Leach	
890-918-8	SP4 @ 1	Soluble	Solid	DI Leach	
MB 880-5076/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5076/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5076/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-9	SP5 @ surface	Soluble	Solid	DI Leach	
890-918-10	SP5 @ 1	Soluble	Solid	DI Leach	
890-918-11	NH1 @ surface	Soluble	Solid	DI Leach	
890-918-12	NH1 @ 1	Soluble	Solid	DI Leach	
890-918-13	EH1 @ surface	Soluble	Solid	DI Leach	
890-918-14	EH1 @ 1	Soluble	Solid	DI Leach	
890-918-15	SH1 @ Surface	Soluble	Solid	DI Leach	
890-918-16	SH1 @ 1	Soluble	Solid	DI Leach	
MB 880-5079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-918-17	WHI @ surface	Soluble	Solid	DI Leach	
890-918-18	WHI @ 1	Soluble	Solid	DI Leach	
MB 880-5080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-918-17 MS	WHI @ surface	Soluble	Solid	DI Leach	
890-918-17 MSD	WHI @ surface	Soluble	Solid	DI Leach	

Analysis Batch: 5130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-1	SP1 @ surface	Soluble	Solid	300.0	5076
890-918-2	SP1 @ 4	Soluble	Solid	300.0	5076

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Job ID: 890-918-1

SDG: 14434

HPLC/IC (Continued)

Analysis Batch: 5130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-3	SP2 @ surface	Soluble	Solid	300.0	5076
890-918-4	SP2 @ 1	Soluble	Solid	300.0	5076
890-918-5	SP3 @ surface	Soluble	Solid	300.0	5076
890-918-6	SP3 @ 1	Soluble	Solid	300.0	5076
890-918-7	SP4 @ surface	Soluble	Solid	300.0	5076
890-918-8	SP4 @ 1	Soluble	Solid	300.0	5076
MB 880-5076/1-A	Method Blank	Soluble	Solid	300.0	5076
LCS 880-5076/2-A	Lab Control Sample	Soluble	Solid	300.0	5076
LCSD 880-5076/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5076

Analysis Batch: 5203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-9	SP5 @ surface	Soluble	Solid	300.0	5079
890-918-10	SP5 @ 1	Soluble	Solid	300.0	5079
890-918-11	NH1 @ surface	Soluble	Solid	300.0	5079
890-918-12	NH1 @ 1	Soluble	Solid	300.0	5079
890-918-13	EH1 @ surface	Soluble	Solid	300.0	5079
890-918-14	EH1 @ 1	Soluble	Solid	300.0	5079
890-918-15	SH1 @ Surface	Soluble	Solid	300.0	5079
890-918-16	SH1 @ 1	Soluble	Solid	300.0	5079
MB 880-5079/1-A	Method Blank	Soluble	Solid	300.0	5079
LCS 880-5079/2-A	Lab Control Sample	Soluble	Solid	300.0	5079
LCSD 880-5079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5079

Analysis Batch: 5204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-918-17	WHI @ surface	Soluble	Solid	300.0	5080
890-918-18	WHI @ 1	Soluble	Solid	300.0	5080
MB 880-5080/1-A	Method Blank	Soluble	Solid	300.0	5080
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	300.0	5080
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5080
890-918-17 MS	WHI @ surface	Soluble	Solid	300.0	5080
890-918-17 MSD	WHI @ surface	Soluble	Solid	300.0	5080

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Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP1 @ surface

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-1 Date Collected: 07/09/21 00:00

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 06:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 14:36	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		5	5130	07/13/21 20:47	CH	XEN MID

Client Sample ID: SP1 @ 4 Date Collected: 07/09/21 00:00

Lab Sample ID: 890-918-2

Date Received: 07/09/21 15:12

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 06:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 15:38	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1	5130	07/14/21 12:31	CH	XEN MID

Client Sample ID: SP2 @ surface

Lab Sample ID: 890-918-3

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 06:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 15:59	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		5	5130	07/13/21 21:09	CH	XEN MID

Client Sample ID: SP2 @ 1

Lab Sample ID: 890-918-4

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 07:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 16:20	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		5	5130	07/13/21 21:15	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP3 @ surface

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-5 Date Collected: 07/09/21 00:00

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 07:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 16:40	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	CH	XEN MID
Soluble	Analysis	300.0		1	5130	07/14/21 12:37	CH	XEN MID

Client Sample ID: SP3 @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-6

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 5111 07/13/21 15:04 KL XEN MID Total/NA 8021B XEN MID Analysis 07/14/21 07:48 1 5114 KL Total/NA Prep 8015NM Prep XEN MID 5136 07/14/21 08:43 DM Total/NA 8015B NM XEN MID Analysis 5176 07/14/21 17:01 AM XEN MID Soluble Leach DI Leach 5076 07/12/21 16:10 СН 300.0 5130 XEN MID Soluble Analysis 1 07/14/21 12:43 CH

Client Sample ID: SP4 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-7

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 08:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 17:22	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	СН	XEN MID
Soluble	Analysis	300.0		1	5130	07/14/21 12:48	CH	XEN MID

Client Sample ID: SP4 @ 1 Date Collected: 07/09/21 00:00

Lab Sample ID: 890-918-8

Matrix: Solid

Date Received: 07/09/21 15:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 08:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 17:43	AM	XEN MID
Soluble	Leach	DI Leach			5076	07/12/21 16:10	СН	XEN MID
Soluble	Analysis	300.0		1	5130	07/14/21 12:54	CH	XEN MID

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP5 @ surface

Lab Sample ID: 890-918-9

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 08:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 18:03	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/15/21 11:38	CH	XEN MID

Lab Sample ID: 890-918-10

Client Sample ID: SP5 @ 1 Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 09:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 18:24	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/15/21 11:44	CH	XEN MID

Client Sample ID: NH1 @ surface

Lab Sample ID: 890-918-11

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 10:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 19:06	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/14/21 20:32	CH	XEN MID

Client Sample ID: NH1 @ 1

Lab Sample ID: 890-918-12

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

	Batch	Batch		Dilution	Batch Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 10:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 19:27	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	СН	XEN MID
Soluble	Analysis	300.0		1	5203	07/14/21 20:37	CH	XEN MID

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: EH1 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-13

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 11:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 19:47	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/15/21 11:49	CH	XEN MID

Lab Sample ID: 890-918-14

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Client Sample ID: EH1 @ 1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 11:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 20:08	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/15/21 11:55	CH	XEN MID

Client Sample ID: SH1 @ Surface

Lab Sample ID: 890-918-15

Matrix: Solid

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 11:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 20:29	AM	XEN MID
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/15/21 12:00	CH	XEN MID

Client Sample ID: SH1 @ 1 Lab Sample ID: 890-918-16 Date Collected: 07/09/21 00:00 **Matrix: Solid**

Dilution

Date Received: 07/09/21 15:12

Soluble

Datab

300.0

Analysis

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID	
Total/NA	Analysis	8021B		1	5114	07/14/21 12:18	KL	XEN MID	
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID	
Total/NA	Analysis	8015B NM		1	5176	07/14/21 20:50	AM	XEN MID	
Soluble	Leach	DI Leach			5079	07/12/21 10:14	CH	XEN MID	

Eurofins Xenco, Carlsbad

XEN MID

5203 07/14/21 20:59 CH

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Client Sample ID: WHI @ surface

Lab Sample ID: 890-918-17

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12

Client Sample ID: WHI @ 1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	ethod Run		Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 12:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 21:11	AM	XEN MID
Soluble	Leach	DI Leach			5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		5	5204	07/14/21 21:43	CH	XEN MID

Lab Sample ID: 890-918-18

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 **Matrix: Solid**

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5111	07/13/21 15:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5114	07/14/21 12:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			5136	07/14/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5176	07/14/21 21:32	AM	XEN MID
Soluble	Leach	DI Leach			5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		5	5204	07/14/21 21:59	CH	XEN MID

Laboratory References:

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

8021B

Accreditation/Certification Summary

Total BTEX

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Laboratory: Eurofins Xenco, Midland

5035

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

Authority	Pr	ogram	Identification Number	Expiration Date		
Texas		ELAP	T104704400-20-21	06-30-22		
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for wh		
41	for cortification	,	, ,			
the agency does not of	iei ceitiiicatioii.					
Analysis Method	Prep Method	Matrix	Analyte			

Solid

Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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
015NM 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.

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: Momba Lay Flatline Release

Job ID: 890-918-1

SDG: 14434

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-918-1	SP1 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-2	SP1 @ 4	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-3	SP2 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-4	SP2 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-5	SP3 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-6	SP3 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-7	SP4 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-8	SP4 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-9	SP5 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-10	SP5 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-11	NH1 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-12	NH1 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-13	EH1 @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-14	EH1 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-15	SH1 @ Surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-16	SH1 @ 1	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-17	WHI @ surface	Solid	07/09/21 00:00	07/09/21 15:12	
890-918-18	WHI @ 1	Solid	07/09/21 00:00	07/09/21 15:12	

7/15/2021

Chain of Custody

Environment Testing Xenco

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

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

Work Order No:	_
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												_ ,				ww	w.xen	co.con	n Pag	e	of Z_
Project Manager:	Joel Lowry		Bill to: (if differen	t)									Work Order Comments								
Company Name:	Etech Environmental		Company Name		Co	4_						\vdash	Progi	апт:	UST/	ठा 🗌	РКР	Bro	ownfields	RRC	Superfund
Address:	3100 Plains Hwy		Address:										State of Project:								
City, State ZIP:	Louington, NM 883	260	City, State ZIP:	tate ZIP:]	Reporting: Level Level PST/UST TRRP Level V											
Phone:	none: 575-396-2378 Email: PM@ctcchenv.com										Deliv	erable	s: E	DD _]	ADa	PT 🗌	Other:			
Project Name:	Momba lay Flatline Rela	Se Turn	Around						A	NALY	SIS REC	UES	T						Pr	eservativ	re Codes
Project Number:	14434	Routine	Rush	Pres. Code															None: N	10	DI Water: H ₂ O
Project Location:	Ryral Eddy co, NM	Due Date:																	Cool: Co	ool	MeOH: Me
Sampler's Name:	Whit Dans		day received by]						10000	100 000 11								HCL: HC		HNO 3: HN
PO #:		the lab, if rec	eived by 4:30pm	2						111111									H ₂ SO ₄ : I	12	NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yes No	Parameters															H₃PO ₄:		
Samples Received Inta			M-003	aran						890-9		ill IIIII	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	tody					1	4: NABIS	
Cooler Custody Seals:	Yes N/A Correction F		10.2	-	\ \sq				-	030-3	710 0116							-		3: NaSO 3	
Sample Custody Seals			10.0	-	Sol	\sim	_		1	- 1	1								1	ate+NaOH	
Total Containers:		emperature:		<u> </u>	<u>\$</u>	3	PH	}	- }	1	1				1				NaOH+A	Ascorbic A	cid: SAPC
Sample Ident	Sampled	Time Sampled	Depth Grab/	# of Cont	Chlorides	BTEX	-												Sa	mple Cor	mments
SPI @ sorface	50.1 7/9/21		- 6	1	χ	X	X					\perp		_	<u> </u>		1				
SPIQ 4'			4'	1	X	X	X					_			<u> </u>	↓	_				
SP2 @ suffa	œ I		-		X	X	X					_			<u> </u>	<u> </u>					
SP2@1'			1'		X	λ	X					_			_	_	1				
SP3 @ Surfa	æ		-	$\perp \perp$	$\perp X$	_X_	X					_			<u> </u>	ļ		<u> </u>	1		
SP3@1'	,		1'		X,	X	X		_			_			<u> </u>		<u> </u>		ļ		
504 @ SUIF	ne		~	\sqcup	X		X					_			↓	_					
5P4 @ 1'			1'	$\vdash \vdash$	LΛ	X	X			_		_			 	_	↓_	<u> </u>	ļ		
SPS & SUIT	i ce		-	1	X	Δ	Ž				_	-			-	-		┼	-		
SP5@1'		<u> </u>	1' 7		L X	X	Х									<u> </u>	<u></u>	<u> </u>			
Total 200.7 / 601	0 200.8 / 6020: 8	RCRA 13PP	PM Texas 11	AI Sb	As Ba	Be B	Cd	Ca Cı	Co C	u Fe	Pb M	g Ñ	In M	o Ni		-					
Circle Method(s)	and Metal(s) to be analyzed	TCLP/S	PLP 6010 : 8RC	RA S	b As E	Ba Be	Cd C	r Co	Cu Pb	Mn I	Mo Ni	Se	Ag T	ΙU		Hg: 1	631/	245.1	/7470 /	7471	
of service. Eurofins Xenco w	ument and relinquishment of samples constitutes a iil be I able only for the cost of samples and shall not im charge of \$85.00 will be applied to each project a	assume any respo	nsibility for any losses o	r expens	es incurre	ed by the o	lient if	such losse	s are due	to circun	mstances b	eyond	the co	ntrol	ited.						
Relinquished	(Signature) Received by	y: (Signature	2)		Date/	Time		Reli	elinquished by: (Signature)					Rece	ived b	y: (Sig	nature)	Date	e/Time	
WILL	Jumy 100	(elds	P	OF	· (4)	7.2	11	512	-												
3	1							4													
5								6													
L																			R	evised Date: 08	8/25/2020 Rev. 2020.2













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Environment Testing Xenco

Chain of Custody

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

																www	.xenco	o.com	Page _		of
Project Manager:	Joel Lowry Bill to: (if different)									Work Order Comments											
Company Name:	e: Etech Envinnmental			Company Name:		COG					Program: UST/PST PRP Drownfields RRC Superfund										
Address:	3100 Plains Hwy	Address:								State of Project:											
City, State ZIP:				City, State ZIP:								Reporting: Level II 🗌 Level III 📗 PST/UST 📗 TRRP 🗍 Level IV 📗									
Phone:	575-396-2378	PM @ etecheny.com					Deliverables: EDD ADaPT Other:														
Project Name:	Mamba lay flat line Re	Turr	Around	ANALYSIS REQU					EST						Prese	ervative C					
Project Number:	14434	Routine	Rush	Pres. Code															None: NO		Water: H ₂ O
Project Location:	Rural Eddy Co, NM	Due Date:																	Cool: Cool	М	eOH: Me
Sampler's Name:	Miaul Dun		e day received by	1															HCL: HC		NO 3: HN
PO #:		the lab, if red	eived by 4:30pm								ĺ	1							H ₂ SO ₄ : H ₂	N	aOH: Na
SAMPLE RECEIPT	Temp Blank: Yes N	o Wet Ice:	Yes No	Parameters									1		1				H ₃ PO ₄ : HP		
Samples Received Inta	ct: Yes No Thermo	neter ID:	Di	Tam					1		- 1	1			ĺ				NaHSO ,: N	IABIS	
Cooler Custody Seals:	Yes No N/A Correct	on Factor:	1,9,	ه ا	_ \			ĺ		1		1	ĺ						Na 2S 2O 3: N	laSO ₃	
Sample Custody Seals:	Yes No N/A Tempe	ature Reading:			1	\ ×			- 1										Zn Acetate	+NaOH: Z	n
Total Containers:	Correct	ed Temperature:			11/6	3	Hd				- 1	1		- 1			:		NaOH+Asc	orbic Acid	: SAPC
Sample Identi	fication Matrix Date Sampl	l l	Depth Grab/ Comp	# of Cont	Chlorides	Bi	F												Samp	ole Comr	nents
NHIQSURF	Soil 7/9/2	(- Gnb	1	X	×	X														
NHIQI			1' 1	1	X	X	×														
EHI @ SUR	ace		1-11		X	X	X					T									
EHIQ1'			1'		χ	X	X					T									
SHI @ SUH	a ae		-		χ	×	χ					T									
SHI WI'.			1'		X	×	X					T									
SHI @ I' WHI@ surfa	.a		-		X	X	X														
WHIQ!	4 4		1, 9	4	X	X	Х_														
												1									
Total 200.7 / 601	0 200.8 / 6020:	8RCRA 13PF	PM Texas 11	Al Sb	As Ba	a Be	B Cd	Ca C	r Co (Cu Fe	Pb Mg	N	1n Mo	Ni K	Se	Ag Si	iO ₂ N	la Sr	TI Sn U \	/ Zn	
Circle Method(s) a	and Metal(s) to be analyzed	TCLP/S	PLP 6010 : 8RC	RA S	b As I	Ba Be	Cd (Cr Co	Cu Pb	Mn	Mo Ni Se	e ,	Ag Tl	U	H	lg: 16	31/2	245.1	/7470 /74	171	
of service. Eurofins Xenco wi	iment and relinquishment of samples constitu Il be liable only for the cost of samples and sha m charge of \$85.00 will be applied to each pro	I not assume any respo	nsibility for any losses o	r expens	es incurre	ed by the	client if	such loss	es are due	to circu	mstances beyo	ond	the contr	ol	1.			· · · · · ·			
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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-918-1

SDG Number: 14434

List Source: Eurofins Xenco, Carlsbad

Login Number: 918 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	

Eurofins Xenco, Carlsbad

<6mm (1/4").

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-918-1

SDG Number: 14434

List Source: Eurofins Xenco, Midland

List Creation: 07/13/21 02:48 PM

List Number: 2 Creator: Lowe, Katie

Login Number: 918

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

Eurofins Xenco, Carlsbad

<6mm (1/4").

Appendix D Photographic Log

Photographic Log





Photographic Log





Photographic Log



	Page 75 of 7	6
Incident ID	nAPP2120130933	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be it	ncluded 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 confi	rmed as part of any request for deferral of remediation.						
Contamination must be in areas immediately under or around production.	luction equipment where remediation could cause a major facility						
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: Jacqui Harris	Title: Environmental Coordinator						
Signature: Jacqui Thoris	Date:9.27.21						
email: jacqui.harris@conocophillips.com	Telephone: (575)745-1807						
OCD Only							
Received by: Robert Hamlet	Date: <u>2/8/2022</u>						
☐ Approved	oproval						
Signature: Robert Hamlet D	ate: 2/8/2022						

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

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

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

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

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

CONDITIONS

Action 52481

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	52481
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. This release has occurred in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Confirmation samples need to be collected no more than 200 ft2 in the primary pooling area and the release area characterized as the runoff area. representative composite confirmation soil samples collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet is approved.	2/8/2022