Page 1 of 87

Incident ID	nAPP2120130933
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following i	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and repluman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:11/16/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

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.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Bar J. Arguijo

Joel W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY	4 . 0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	5.0
SOIL CLOSURE REQUEST	6 . 0
LIMITATIONS	7 . 0
DISTRIBUTION	8 . 0

FIGURES

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

TABLES

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

APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data & Soil Profile Log
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log
- Appendix E Regulatory Correspondence

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Mamba Federal Com 702H. Details of the release are summarized below:

			Locatio	on of Release So	ource			
Latitude:		32.0	90719	Longitude		-104.071325		
			Provide	d GPS are in WGS84 for	mat.			
Site Name:	Mai	mba Fe	deral Com 702H	Site Type:		Pipeline		
Date Release Dis	scovere	d:	6/28/2021	API # (if appli	cable):	N/A		
Unit Letter	Sec	tion	Township	Range	County	/		
"B"	3-	4	25S	28E	Eddy			
Surface Owner:	X Sta	te		Private (Na				
Crude Oil		Volum	e Released (bbls)		Volume I	Recovered (bbls)		
Produced Water Volume Released (bbls)				39	Volume I	Recovered (bbls) 0		
			oncentration of dissoled water > 10,000 mg	e X Ye	es No N/A			
Condensate	;	Volum	e Released (bbls)		Volume I	Volume Recovered (bbls)		
Natural Gas	S	Volum	e Released (Mcf)		Volume I	Volume Recovered (Mcf)		
Other (desc	cribe)	Volum	e/Weight Released		Volume/V	Volume/Weight Recovered		
the pasture to fl	s caused	d move	•	inst a t-post, which	n punctured th	rains caused the low-lying area of the line. The release of treated		
			In	itial Response				
X The source	of the re	elease ha	as been stopped.					
X The impacte	ed area l	nas beer	secured to protect hur	man health and the	environment.			
Release mat	terials h	ave been	n contained via the use	of berms or dikes,	absorbent pad.	, or other containment devices		
All free liqu	ids and	recover	able materials have be	en removed and ma	naged appropi	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 Mamba Federal Com 702H release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	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 in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Mamba Federal Com 702H release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
40'	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	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 REMEDIATION ACTIVITIES SUMMARY

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 (henceforth, "the 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.

On September 27, 2021, an unrelated, third-party release overlapped and commingled with impacted soil in the area characterized by sample point SP1. The releases were remediated concurrently.

On September 28, 2021, based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, a *Site Assessement Report & Proposed Remediation Workplan* was submitted to the NMOCD, proposing remediation activities designed to advance the release site toward regulatory closure. The workplan was subsequently approved by the NMOCD.

On July 15, 2022, remediation activities commenced following the completion of ongoing road/bridge construction activities that had precluded access to the release site. In accordance with NMOCD regulatory guidelines and the approved workplan, impacted soil in the commingled overlap area (OL) affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated to approximately four (4) feet below ground surface (bgs) and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 50 linear feet from the excavation sidewalls and every 200 square feet from the floor of the excavated area to be submitted for laboratory analysis.

On July 15, 2022, Etech collected six (6) confirmation soil samples (OL-NW1, OL-EW1, OL-SW1, OL-WW1, OL-FL 1 @ 4', and OL-FL 2 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample OL - FL 1 @ 4' to 288 mg/kg in soil samples OL - NW1 and OL - WW1.

The final dimensions of the excavated area were approximately 40 feet in length, 18 to 30 feet in width, and four (4) feet in depth. During the course of remediation activities, Etech transported approximately 72 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 72 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area 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 release site are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Areas affected by remediation and closure activities were substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas 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.

6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Mamba Federal Com 702H release site.

7.0 LIMITATIONS

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

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

8.0 DISTRIBUTION

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

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

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

(Electronic Submission)

Figure 1 Topographic Map

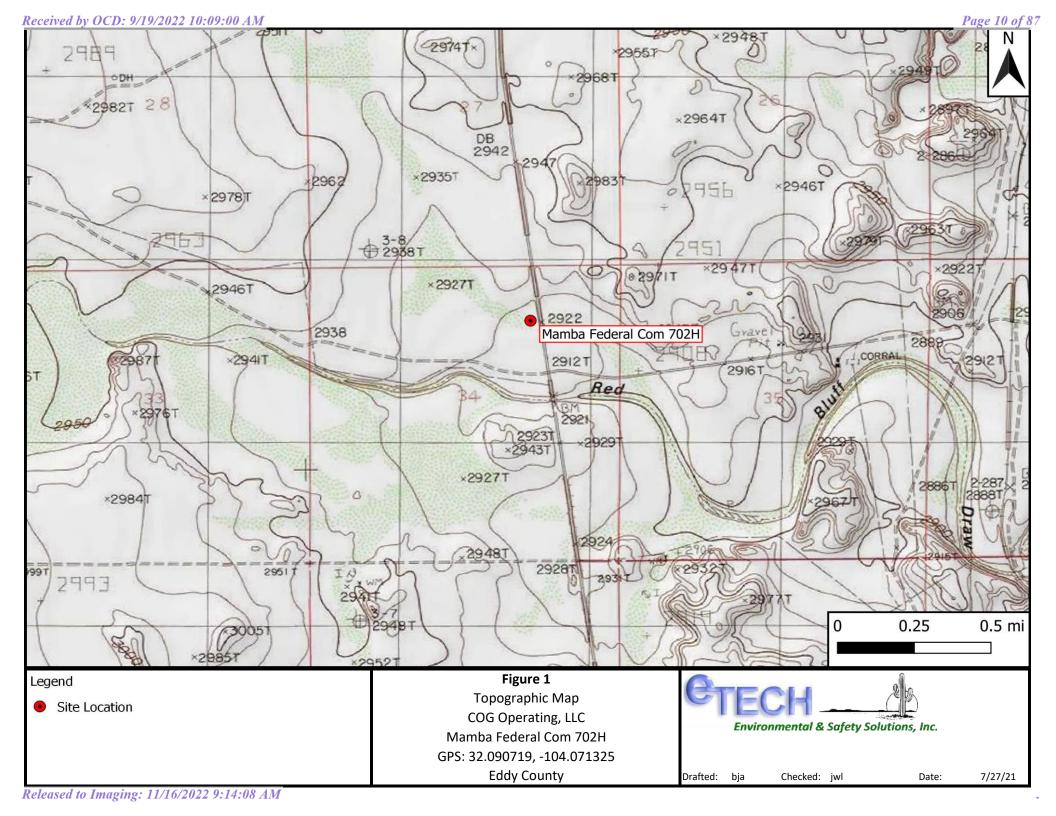


Figure 2 Site Characterization Map

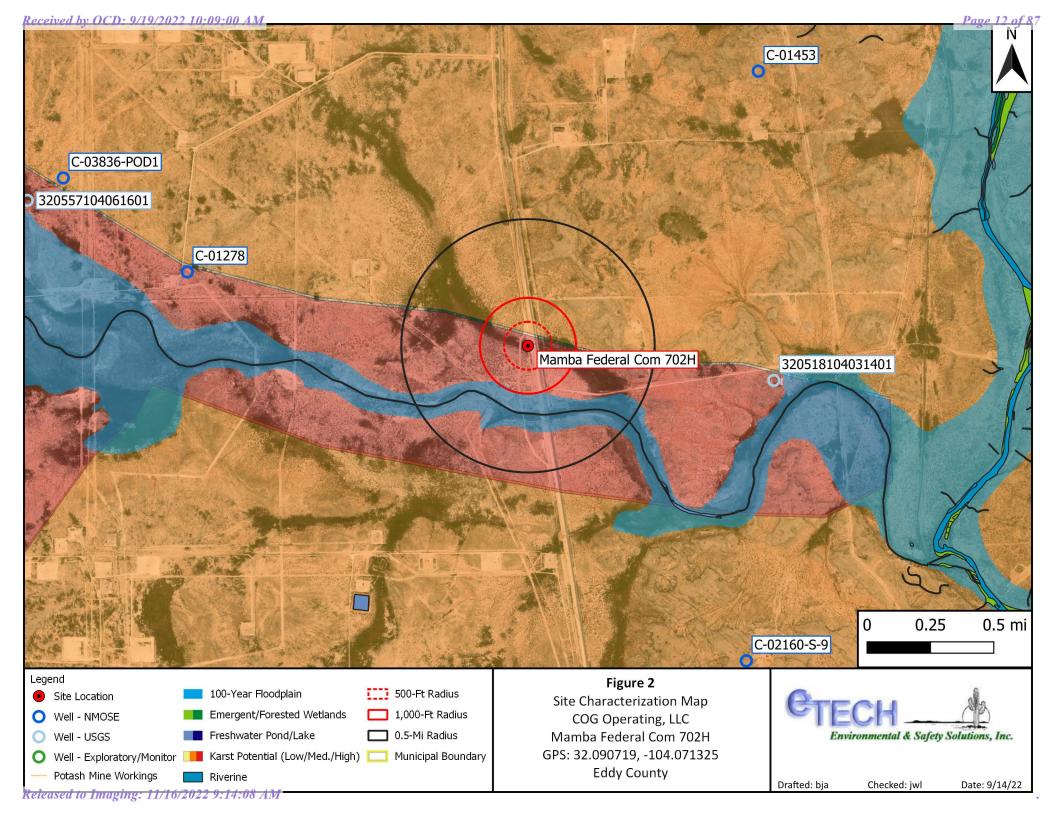


Figure 3 Site & Sample Location Map



Table 1 Concentrations of BTEX, TPH & Chloride in Soil

	Table 1												
Concentrations of BTEX, TPH & Chloride in Soil													
	COG Operating, LLC												
				Mam	ba Federa	l Com 702	2H						
	NMOCD Ref. #: nAPP2120130933												
NMOC	D Closure Cr	iteria		10	50	N/A	N/A	N/A	N/A	100	600		
NMOCD I	Reclamation S	tandard		10	50	N/A	N/A	N/A	N/A	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)		
	1		1		Delineation			1	1	1			
NH1 @ Surface	7/9/2021	0			< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 5.00		
NH1 @ 1'	7/9/2021	1		< 0.00198	< 0.00396	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	<4.96		
EH1 @ Surface	7/9/2021	0		< 0.00198		<49.9	<49.9	<49.9	<49.9	<49.9	11.8		
EH1 @ 1'	7/9/2021	1		< 0.00198		<49.9	<49.9	<49.9	<49.9	<49.9	10.2		
SH1 @ Surface	7/9/2021	0		< 0.00198		<49.9	<49.9	<49.9	<49.9	<49.9	12.0		
SH1 @ 1'	7/9/2021	1		< 0.00199	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	212		
WH1 @ Surface	7/9/2021	0		< 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	Excavated	< 0.00198	< 0.00397	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	2,250		
SP1 @ 4	7/9/2021	4	In-Situ		< 0.00403	<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		< 0.00199	< 0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	11.1		
SP4 @ Surface	7/9/2021	0		< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	31.5		
SP4 @ 1'	7/9/2021	1		< 0.00200	< 0.00401	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	121		
SP5 @ Surface	7/9/2021	0		< 0.00200	< 0.00401	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	41.2		
SP5 @ 1'	7/9/2021	1	In-Situ	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	44.6		
Excavation Samples													
OL - NW1	7/15/2022	1-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288		
OL - EW1	7/15/2022	1-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0		
OL - SW1	7/15/2022	1-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0		
OL - WW1	7/15/2022	1-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288		
OL - FL 1 @ 4'	7/15/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0		
OL - FL 2 @ 4'	7/15/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		

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) (NA

(NAD83 UTM in meters)

(In feet)

	POD Sub-		000							Denth	Depth	Water
POD Number	Code basin	County			Tws	Rng	Х	Υ	Distance	•	-	Column
<u>C 02477</u>	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

· 402 47* 4

C 02477

1 1 03 26S 28E

586687 3549347*

9

Driller License:

Driller Company:

Drill Finish Date:

Driller Name:

HEPLER BROS

Drill Start Date:
Log File Date:

12/31/1912 **Plug 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 Tws Rng

C 01278

28 25S 28E 3551338*

Driller License: 46 **Driller Company:**

ABBOTT BROTHERS COMPANY

Driller Name: ABBOTT, MUNELL

04/04/1965

Drill Finish Date:

04/08/1965

Plug Date:

Drill Start Date: Log File Date:

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

C 01453

26 25S 28E 589096 3552612*

Driller License:

Driller Company:

BARRON, EMMETT

Driller Name: BARRON, EMMETT

07/17/1971

6.00

Drill Finish Date:

07/20/1971

Plug Date:

Shallow

Drill Start Date: Log File Date:

08/02/1971

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

70 feet

Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description

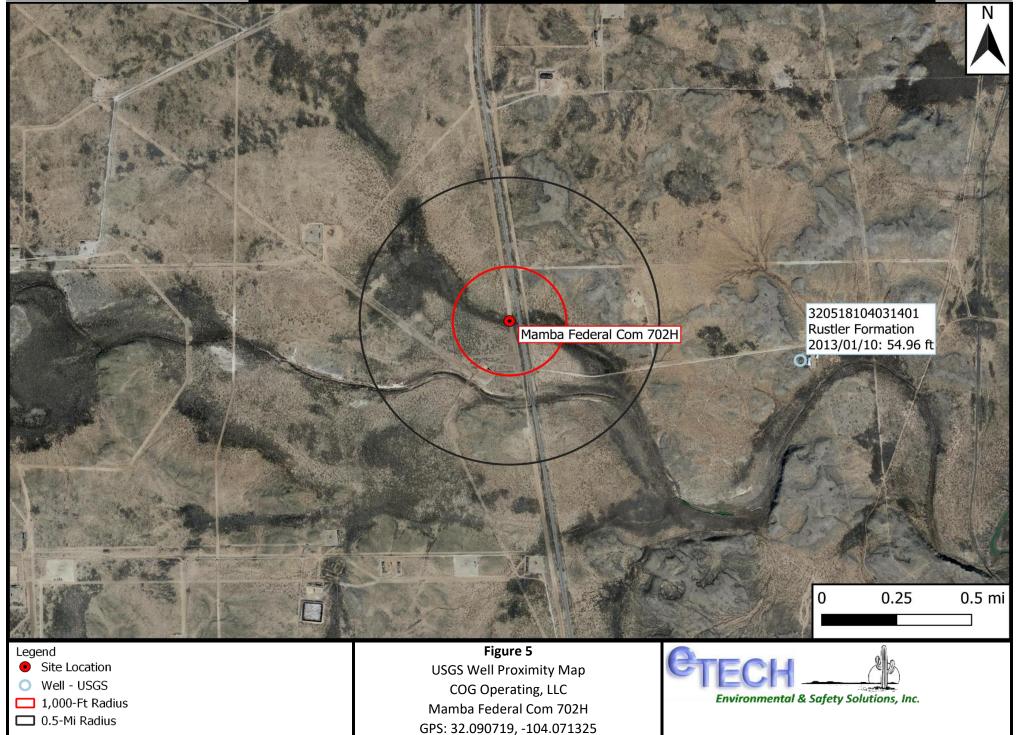
50

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



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

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

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

Accessibility FOIA Policies and Notices Privacy

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 Log



Sample Log

Date: 7/9/21	
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Project:

Momba Lay Flat Line Release

-104.071325 Project Number: 32.090719 Longitude: Latitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
Spi @ surface	~	6408	
SOL @ 1'	-	4036	
5P2 @ 2'	_	128 1144	
sp 3 @3'	-	928	
5P4 @4'	-	240	
502@ surface	_	500	
5P3 @ surface	_	156	
SP3@ surfee	~	212	
JHR SURFACE		7112	
NH 1@ 1'	-	7/17	
5HI @ surface	-	298	
CHIPI	-	>112	
EHI @ surface	_	272	
EH 1 @ 1'	_	212	
JHI @ 10 surface		240	
NHIQI'	_	156	
5P3@1 ¹	`	132	
SAULO Surface	~	132	
5P4 @ 1' a	~	212	
SPS @ Surtage	_	156	
5PS @ 1'	~	272	
7/15/22			
OI FLIRD'	_	3.0 352	
OL FLZES'	-	3.2 396	
OV SWI	_	2.0 352	
OL NWI	_	36 48	
DI EWI	-	3.4 440	
OL WWI		3.4 440 3.2 396	
Sample Point = SP #1 @ ## etc	<u> </u>	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 Area
			•



Soil Profile

Environmental & Safety Solution				Date:	19/2021
Project: Momba La Project Number:	y Flat Line Release 14434	Latitude:	32.090719	Longitude:	-104.071325
Depth (ft. bgs)			Des	scription	
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Received by OCD: 9/19/2022 10:09:00 AM

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

Review your project results through

lotal Access

Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 11/16/2022 9:14:08 AM

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	24
Lab Chronicle	28
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	38

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Definitions/Glossary

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

Job ID: 890-918-1

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.

GC VOA

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.

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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

Lab Sample ID: 890-918-1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 **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
1,4-Difluorobenzene (Surr)	84		70 - 130			07/13/21 15:04	07/14/21 06:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/14/21 08:43 07/14/21 14:36 (GRO)-C6-C10 07/14/21 08:43 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/14/21 14:36 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/14/21 08:43 07/14/21 14:36 Total TPH 50.0 07/14/21 08:43 07/14/21 14:36 <50.0 U mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed

Dil Fac 1-Chlorooctane 106 70 - 130 07/14/21 08:43 07/14/21 14:36 o-Terphenyl 128 70 - 130 07/14/21 08:43 07/14/21 14:36

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

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 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 Ra	ange 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 15:38	1

Eurofins Xenco, Carlsbad

Matrix: Solid

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 @ 4

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-2

Lab Sample ID: 890-918-3

Matrix: Solid

Matrix: Solid

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 Chr	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chr Analyte	0 . ,	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SP2 @ surface

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

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

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 C10-C28)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 15:59	1
OII 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
Surrogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Esc

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 -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		25.2	mg/Kg			07/13/21 21:09	5

Eurofins Xenco, Carlsbad

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Client Sample Results

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

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-918-4

07/14/21 07:07

Lab Sample ID: 890-918-5

Matrix: Solid

07/13/21 15:04

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)			70 - 130			07/13/21 15:04	07/14/21 07:07	1

105

<49.8 U

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Dil Fac Analyzed <50.0 U 50.0 mg/Kg 07/14/21 08:43 07/14/21 16:20 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/14/21 08:43 07/14/21 16:20 C10-C28) OII 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 Qualifier Limits Prepared Dil Fac %Recovery Analyzed 1-Chlorooctane 97 70 - 130 07/14/21 08:43 07/14/21 16:20 o-Terphenyl 110 70 - 130 07/14/21 08:43 07/14/21 16:20

70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 195 25.1 mg/Kg 07/13/21 21:15

Client Sample ID: SP3 @ surface

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

Method: 8021B - Volatile Organic Compounds (GC) Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 0.00200 mg/Kg 07/13/21 15:04 07/14/21 07:28 Toluene <0.00200 U 0.00200 07/13/21 15:04 07/14/21 07:28 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/13/21 15:04 07/14/21 07:28 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/13/21 15:04 07/14/21 07:28 o-Xylene <0.00200 U 0.00200 mg/Kg 07/13/21 15:04 07/14/21 07:28 Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/13/21 15:04 07/14/21 07:28 Total BTEX <0.00400 U 0.00400 07/13/21 15:04 07/14/21 07:28 mg/Kg %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 115 70 - 130 07/13/21 15:04 07/14/21 07:28 1,4-Difluorobenzene (Surr) 104 70 - 130 07/13/21 15:04 07/14/21 07:28 Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac

07/14/21 16:40

07/14/21 08:43

49.8

mg/Kg

Gasoline Range Organics

(GRO)-C6-C10

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

Analyzed

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)								
Oll 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

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

RL

5.01

Unit

mg/Kg

Prepared

D

Result Qualifier

40.7

Date Received: 07/09/21 15:12

Sample Depth: - 1

Analyte

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
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics	•	Qualifier	RL 49.7	Unit mg/Kg	<u>D</u>	Prepared 07/14/21 08:43	Analyzed 07/14/21 17:01	
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U		mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 17:01	
Analyte Gasoline Range Organics	Result	Qualifier U	49.7		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		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>D</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 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.7 <49.7 <49.7 <49.7 <49.7 <49.7 <49.7 <49.7 %Recovery	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
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	Qualifier U U U Qualifier	49.7 49.7 49.7 49.7 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D_	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 Dil Fac

Eurofins Xenco, Carlsbad

Dil Fac

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

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP4 @ surface

Lab Sample ID: 890-918-7

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 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 Ranç	• •	, , ,						
Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)						
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 02/44/24 09:42	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 07/14/21 08:43	Analyzed 07/14/21 17:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		mg/Kg	<u>D</u>	<u>.</u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9		<u> </u>	07/14/21 08:43	07/14/21 17:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 17:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43	07/14/21 17:22 07/14/21 17:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	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 17:22 07/14/21 17:22 07/14/21 17:22	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	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	07/14/21 17:22 07/14/21 17:22 07/14/21 17:22 07/14/21 17:22	1 1
	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 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 Prepared	07/14/21 17:22 07/14/21 17:22 07/14/21 17:22 07/14/21 17:22 Analyzed	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 S1+	49.9 49.9 49.9 49.9 Limits 70 - 130	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 Prepared 07/14/21 08:43	07/14/21 17:22 07/14/21 17:22 07/14/21 17:22 07/14/21 17:22 Analyzed 07/14/21 17:22	1

Client Sample ID: SP4 @ 1 Lab Sample ID: 890-918-8 Date Collected: 07/09/21 00:00

31.5

5.03

Matrix: Solid

mg/Kg

Date Received: 07/09/21 15:12

Sample Depth: - 1

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 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 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 17:43	1

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07/14/21 12:48

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

5DG. 14434

Client Sample ID: SP4 @ 1

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

Sample Depth: - 1

Lab Sample	ID: 890-918-8
------------	---------------

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 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

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

4

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
1,4-Difluorobenzene (Surr)	109		70 - 130			07/13/21 15:04	07/14/21 08:50	1
Method: 8015B NM - Diesel Ran Analyte	• •		DI	Unit	n	Propared	Analyzod	Dil Fa
Madhada 0045D NM - Diaeal Daoi	0	DO) (OO)						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 07/14/21 08:43	Analyzed 07/14/21 18:03	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 18:03	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 18:03	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43	07/14/21 18:03 07/14/21 18:03	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	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 18:03 07/14/21 18:03 07/14/21 18:03	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	D_	07/14/21 08:43 07/14/21 08:43 07/14/21 08:43 07/14/21 08:43	07/14/21 18:03 07/14/21 18:03 07/14/21 18:03 07/14/21 18:03	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	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 <i>Prepared</i>	07/14/21 18:03 07/14/21 18:03 07/14/21 18:03 07/14/21 18:03 Analyzed	Dil Fa
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	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	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 Prepared 07/14/21 08:43	07/14/21 18:03 07/14/21 18:03 07/14/21 18:03 07/14/21 18:03 Analyzed 07/14/21 18:03	Dil Fa
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	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 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 18:03 07/14/21 18:03 07/14/21 18:03 07/14/21 18:03 Analyzed 07/14/21 18:03	Dil Fac

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

Lab Sample ID: 890-918-10

Matrix: Solid

Sample Depth: - 1

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

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 18:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 18:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 18:24	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 18:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			07/14/21 08:43	07/14/21 18:24	1
o-Terphenyl	121		70 - 130			07/14/21 08:43	07/14/21 18:24	1

Method: 300.0 - Anions, Ion Chrom	atography - So	oluble						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.6		5.05	mg/Kg			07/15/21 11:44	1

Client Sample ID: NH1 @ surface

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	<0.00199	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	1
(GRO)-C6-C10								

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Lab Sample ID: 890-918-11

Matrix: Solid

2

7

6

8

10

12

13

14

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

07/14/21 20:32

07/14/21 10:55

07/13/21 15:04

Prepared

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
o-Terphenyl - -			70 - 130			07/14/21 08:43	07/14/21 19:06	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample ID: NH1 @ 1 Lab Sample ID: 890-918-12 Date Collected: 07/09/21 00:00 **Matrix: Solid**

5.00

mg/Kg

<5.00 U

102

Result Qualifier

<4.96 U

Date Received: 07/09/21 15:12

Sample Depth: - 1

1,4-Difluorobenzene (Surr)

Analyte

Chloride

Chloride

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
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

70 - 130

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 19:27	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
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:27	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 08:43	07/14/21 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			07/14/21 08:43	07/14/21 19:27	1
o-Terphenyl	125		70 - 130			07/14/21 08:43	07/14/21 19:27	1

RL

4.96

Unit

mg/Kg

Eurofins Xenco, Carlsbad

Analyzed

07/14/21 20:37

Dil Fac

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

07/14/21 08:43

07/14/21 19:47

07/15/21 11:49

Lab Sample ID: 890-918-14

Matrix: Solid

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 07/14/21 08:43 07/14/21 19:47 (GRO)-C6-C10 07/14/21 08:43 Diesel Range Organics (Over <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 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed

o-Terphenyl	127	70 - 130			07/14/21 08:43	07/14/21 19:47	1
Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4.99

mg/Kg

70 - 130

105

11.8

Client Sample ID: EH1 @ 1

Date Collected: 07/09/21 00:00 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 R	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/14/21 08:43	07/14/21 20:08	1
(GRO)-C6-C10								

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)								
OII 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 Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SH1 @ Surface Lab Sample ID: 890-918-15

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

Method: 8021B - Volatile Organic Compounds (GC)

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 Ranç Analyte	, ,	RO) (GC) 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
1-Chlorooctane	98		70 - 130			07/14/21 08:43	07/14/21 20:29	1
o-Terphenyl	115		70 - 130			07/14/21 08:43	07/14/21 20:29	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			5.05	mg/Kg			07/15/21 12:00	

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

Lab Sample ID: 890-918-16

Matrix: Solid

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

Client Sample ID: SH1 @ 1

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 12:18	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/13/21 15:04	07/14/21 12:18	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 12:18	
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 15:04	07/14/21 12:18	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130			07/13/21 15:04	07/14/21 12:18	-
1,4-Difluorobenzene (Surr)	106		70 - 130			07/13/21 15:04	07/14/21 12:18	
Method: 8015B NM - Diesel Rang	•							
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 07/14/21 08:43	Analyzed 07/14/21 20:50	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 20:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 20:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	07/14/21 08:43 07/14/21 08:43	07/14/21 20:50 07/14/21 20:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	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 20:50 07/14/21 20:50 07/14/21 20:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0 50.0	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	07/14/21 20:50 07/14/21 20:50 07/14/21 20:50 07/14/21 20:50	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	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 <i>Prepared</i>	07/14/21 20:50 07/14/21 20:50 07/14/21 20:50 07/14/21 20:50 Analyzed	Dil Fa
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	50.0 50.0 50.0 50.0 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 20:50 07/14/21 20:50 07/14/21 20:50 07/14/21 20:50 Analyzed 07/14/21 20:50	Dil Fac
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	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 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 20:50 07/14/21 20:50 07/14/21 20:50 07/14/21 20:50 Analyzed 07/14/21 20:50	Dil Fac

Client Sample ID: WHI @ surface

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	<0.00201	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 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 21:11	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-918-17

Matrix: Solid

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 Chr	omatography -	Soluble						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL	Onit		riepaieu	Allalyzeu	Diriac

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

Surrogate

o-Terphenyl

1-Chlorooctane

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 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)			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
Method: 8015B NM - Diesel Ran	ige Organics (Di	RO) (GC)						
	• •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •	Qualifier	RL 49.9	Unit mg/Kg	D	Prepared 07/14/21 08:43	Analyzed 07/14/21 21:32	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		Qualifier U	49.9	mg/Kg	<u>D</u>	07/14/21 08:43	07/14/21 21:32	1 1 1

Method: 300.0 - Amons, fon Chron	iatograpity - a	olubie	metriod. 300.0 - Aritoris, for Critoriatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	224		25.0	mg/Kg			07/14/21 21:59	5			

Limits

70 - 130

70 - 130

%Recovery Qualifier

94

108

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Analyzed

07/14/21 21:32

07/14/21 21:32

Prepared

07/14/21 08:43

07/14/21 08:43

Dil Fac

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

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
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	
890-918-4	SP2 @ 1	114	105	
890-918-5	SP3 @ surface	115	104	
890-918-6	SP3 @ 1	113	108	
890-918-7	SP4 @ surface	106	90	
890-918-8	SP4 @ 1	117	105	
890-918-9	SP5 @ surface	117	109	
890-918-10	SP5 @ 1	122	111	
890-918-11	NH1 @ surface	98	93	
890-918-12	NH1 @ 1	121	102	
890-918-13	EH1 @ surface	114	109	
890-918-14	EH1 @ 1	126	110	
890-918-15	SH1 @ Surface	125	105	
890-918-16	SH1 @ 1	120	106	
890-918-17	WHI @ surface	112	97	
890-918-18	WHI @ 1	116	115	
LCS 880-5111/1-A	Lab Control Sample	107	96	
LCSD 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

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				

10

OTPH = o-Terphenyl

QC Sample Results

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

Analysis Batch: 5114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5106

	MB	MR						
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

MD MD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Client Sample ID: Method Blank

Analyzed

07/13/21 18:49

07/13/21 18:49

Prepared

07/13/21 14:47

07/13/21 14:47

Prep Type: Total/NA

Prep Batch: 5111

Dil Fac

Matrix: Solid Analysis Batch: 5114

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

мв мв

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		

QC Sample Results

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 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 85 70 - 130

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

Matrix: Solid

Analysis Batch: 5114

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	

MS MS

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

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

Matrix: Solid

Analysis Batch: 5114

Prep Type: Total/NA

Prep Batch: 5111

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0994	0.06883	F1	mg/Kg		69	70 - 130	8	35
Toluene	<0.00198	U F1	0.0994	0.06572	F1	mg/Kg		65	70 - 130	16	35
Ethylbenzene	<0.00198	U F1	0.0994	0.05811	F1	mg/Kg		57	70 - 130	15	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.1206	F1	mg/Kg		61	70 - 130	18	35
o-Xylene	<0.00198	U F1	0.0994	0.06041	F1	mg/Kg		60	70 - 130	13	35

MSD MSD

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

QC Sample Results

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

Analysis Batch: 5176

Matrix: Solid

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

Prep Batch: 5136

		MB	MB						
	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
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

LCS LCS

Lab Sample ID: LCS 880-5136/2-A

Matrix: Solid

Analysis Batch: 5176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5136

%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)

Spike

LCS LCS

Surrogate 1-Chlorooctane	%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	Sample	ID: Lah	Control	Sample Dup
CHEIL	Jailible	ID. Lab	COILLIO	Sallible Dub

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 Qual	ifier 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 @ surface

Prep Type: Total/NA

Prep Batch: 5136

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	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)										

Job ID: 890-918-1

SDG: 14434

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

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

Analysis Batch: 5176

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

Prep Batch: 5136

MS MS 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 996 1077 106 <50.0 U mg/Kg 70 - 1306 20

C10-C28)

MSD MSD %Recovery Qualifier

Surrogate Limits 70 - 130 1-Chlorooctane 91 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 **Prep Type: Soluble**

D

Prepared

Result Qualifier

мв мв

Analyte RL Unit Dil Fac Analyzed 5.00 Chloride <5.00 U 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

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 272.8 109 90 - 110 20 mg/Kg

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

Matrix: Solid

Analysis Batch: 5203

MB MB

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

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Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Client Sample ID: Method Blank

Prep Type: Soluble

Job ID: 890-918-1

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

SDG: 14434

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5079/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

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 Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

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 Client Sample ID: Method Blank **Prep Type: Soluble**

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 Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5204

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

Lab Sample ID: LCSD 880-5080/3-A Client Sample ID: Lab Control Sample Dup

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 Client Sample ID: WHI @ surface Matrix: Solid **Prep Type: Soluble**

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

Client Sample ID: WHI @ surface

Prep Type: Soluble

Prep Type: Soluble

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 Batcl
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

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

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

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	СН	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 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-2

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 07/14/21 06:26 Analysis 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 15:38 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 12:31 CH

Client Sample ID: SP2 @ surface

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

Lab Sample ID: 890-918-3

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 06:46	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

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

Lab Sample ID: 890-918-4

Matrix: Solid

Bat	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	СН	XEN MID
Soluble	Analysis	300.0		5	5130	07/13/21 21:15	CH	XEN MID

Job ID: 890-918-1

SDG: 14434

Client Sample ID: SP3 @ surface

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-5

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

Lab Sample ID: 890-918-6

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

Client Sample ID: SP3 @ 1

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 07:48	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 17:01	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 12:43	CH	XEN MID

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	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 08:09	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	CH	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

Soluble

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

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XEN MID

07/14/21 12:54

CH

5130

Analysis

300.0

Job ID: 890-918-1

SDG: 14434

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

	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

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

Client Sample ID: SP5 @ 1

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

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-11

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 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

Date Received: 07/09/21 15:12

Date Collected: 07/09/21 00:00

Lab Sample ID: 890-918-12

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 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	CH	XEN MID
Soluble	Analysis	300.0		1	5203	07/14/21 20:37	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: 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	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 11:16	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

Matrix: Solid

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

Client Sample ID: EH1 @ 1

	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 11:36	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

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Lab Sample ID: 890-918-15

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 11:57	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	СН	XEN MID
Soluble	Analysis	300.0		1	5203	07/15/21 12:00	CH	XEN MID

Client Sample ID: SH1 @ 1

Date Collected: 07/09/21 00:00

Date Received: 07/09/21 15:12

Lab San	ple ID: 890-918-16
	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 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	СН	XEN MID
Soluble	Analysis	300.0		1	5203	07/14/21 20:59	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: WHI @ surface

Lab Sample ID: 890-918-17

Matrix: Solid

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Type Method		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 12:38	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

Client Sample ID: WHI @ 1

Date Collected: 07/09/21 00:00 Date Received: 07/09/21 15:12 Lab Sample ID: 890-918-18 **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	СН	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

Accreditation/Certification Summary

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

Job ID: 890-918-1

SDG: 14434

Laboratory: Eurofins Xenco, Midland

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

Authority	hority Program		Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22
The following analytes are included in this rep the agency does not offer certification.	ort, but the laboratory is not ce	rtified by the governing authority. This list m	ay include analytes for which

Analysis Method Prep Method Matrix Analyte 8015B NM Solid Total TPH 8015NM Prep 8021B 5035 Solid Total BTEX

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
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

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	



Environment Testing Xenco

Chain of Custody

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

Work Order	No:	

															\	www	xence	o.com	Page	of			
Project Manager:	Joel Lowry	В	Bill to: (if different)								Work Order Comments											
Company Name:	Etech Environmental		ompany Name:		COG							Program: UST/PST PRP Brownfields RRC Superfund											
Address:	3100 Plains Hwy	A	Address:										State of	Projec	t:								
City, State ZIP:	Louington, NM 882	60	City, State ZIP:								Reporting: Level II Level III PST/UST TRRP L								vel IV				
Phone:	575-396-2378	Email:	pmaete	che	IN V. COM							Deliverables: EDD ADaf							PT Other:				
Project Name:	Momba lay Flatline Relea	Se Turn A	round		ANALYSIS REQUE						UEST							Preservative Codes					
Project Number:	14434	Routine	Rush	Pres. Code													None: NO	DIWa	ter: H ₂ O				
Project Location:	Ryral Eddy CO, NM	Due Date:																	Cool: Cool	MeOH	: Me		
Sampler's Name:	Whill Dans	TAT starts the da												UTTU (UST	III				HCL: HC	HNO 3	: HN		
PO #:		the lab, if receiv	/ed by 4:30pm	ς.			1												H ₂ SO ₄ : H ₂	NaOH:	: Na		
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yes No	Parameters		1	- 1								1				H₃PO ₄: HP		1		
Samples Received Inta	ct: Yes No Thermomete		M-003	ıram															NaHSO 4: NA	BIS			
Cooler Custody Seals:	Yes N/A Correction F		10.2	P _S	2					890-91	8 Chair	1 01	Custo	custody					Na 2S 2O 3: Na	SO 3	ľ		
Sample Custody Seals:	Yes No N/A Temperature	e Reading:	10.0		30		.		- 1	1	1	1	1	1	- 1	1		1	Zn Acetate+	NaOH: Zn	1		
Total Containers:	Corrected Te	emperature:			Ş		PH			-	- }		1						NaOH+Ascor	bic Acid: SAF	c		
Sample Identi	Time Sampled	Depth Grab/ Comp	# of Cont	Ch borides	181	F												Sampl	e Comment	ts			
SPI @ sorface	50.1 7/9/21		- 4	1	X	X	X																
SP1@4'	1		4' 1		Ϋ́	X	X																
SP2 @ sufface	2		-		X	X	X																
SP2@1')'		χ	X	X																
SP3 @ surfa	4		-		X	X	X																
SP3@1'			1'		χ'	X	$X \cup X$					T											
504 @ 501 F	ne		~		X	X	X					T											
5P4 @ 1'			1'		χ	ŹΤ	X					T											
SPS & Surla	ce		-		χ	X	X																
SP5@1'	1 1 3		1' 4	Ŀ	X	X	X																
Total 200.7 / 601	0 200.8 / 6020: 8F and Metal(s) to be analyzed		1 Texas 11 A								_					-	-		Tl Sn U V /7470 /747				
																9							
of service. Eurofins Xenco wi	ament and relinquishment of samples constitutes a v II be I able only for the cost of samples and shall not a m charge of \$85.00 will be applied to each project ar	assume any responsi	bility for any losses or	expense	es incurred	by the	lient if s	uch losses a	are due	to circums	stances bey	rond	the contro	ı									
Relinquished X:	(Signature) Received b	y: (Signature)			Date/T	ime	$\overline{}$	Relino	quish	ned by: (Signatu	re)	T	Re	eceive	ed by	: (Sign	nature)	Date/Time			
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7/15/2021

Chain of Custody

Environment Testing Xenco

eurofins

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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														_				www	v.xenc	o.com	Page		_ of Z	
Project Manager:	Joel Lowry		Bill to: (if	f different)									Work Order Comments											
Company Name:	ETech Env	moment	<u></u>	Compan	v Name:		CO	6							Progra	m:	UST/P	ST 🗌	PRP	Dro	wnfields	RRC	Superfund	
Address:	3100 Plat	ns Hwv		Address:											State	of Proje								
City, State ZIP:	Louington	NM 28	260	City, Stat	te ZIP:										Reporting: Level II									
Phone:	575-396	2378	Ema	11: PMG	PM@ etecher				nv·com							rables	: EC	PT 🗆	Other:					
Project Name:	Manba lay	Pat line D		rn Around				ANALYSIS REQUEST							т				Pres	Preservative Codes				
Project Number:	14434	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Routine		,	Pres. Code			AIVALI 3IS REQUEST									T	T		DI Water: H ₂ O			
Project Location:	Rural Edd	CA ALM				Code			+	-								-	+	 	None: NO		MeOH: Me	
Sampler's Name:	Misau	Dun		he day receive	ed by																HCL: HC		HNO 3: HN	
PO #:				eceived by 4:3																	H ₂ SO ₄: H		NaOH: Na	
SAMPLE RECEIPT	Temp Bla	ank: Yes	No Wet Ice:	Yes	₩o	Parameters												ļ			H ₃ PO 4: HI)		
Samples Received Inta	amples Received Intact: Yes No Thermometer ID:			D	. 1	rame													}		NaHSO ,1:	NABIS		
Cooler Custody Seals:	Yes No	N/A Corre	ction Factor:	1,9		Pa						İ									Na 2S 2O 3:	NaSO 3		
Sample Custody Seals:	Yes No	N/A Temp	erature Reading:				3	`.`×													Zn Acetat	+NaOH:	Zn	
Total Containers:		Corre	cted Temperature:				911	76	HAL											İ	NaOH+As	orbic Ac	id: SAPC	
Sample Identification Matrix Date Sampled Sampled				Depth		# of Cont	Chlorides	BTEX	1												Sam	ple Com	nments	
NHIQSUrf	١٥.	Soil 7/9/	21	-	Gab	1	X	X	X															
NHIQIT				1'		1	X	X	X															
EHI @ surf	مدو			-			X	X	X															
EHI @ SUN				1'			χ	X	X															
SHI @ SUH	്മേ			_			χ	X	χ															
SHI WI'				1'			X	X	X															
WHID surfa	.w						X	X	X															
WHIQ!		4	•	1'	4	4	X	X	X															
									<u> </u>											<u></u>				
Total 200.7 / 6010 Circle Method(s) a			8RCRA 13F TCLP/	PM Texa SPLP 6010										_				_	_		TI Sn U / 7470 / 7			
Notice: Signature of this docu of service. Eurofins Xenco wi of Eurofins Xenco. A minimus	ll be liable only for the co	st of samples and	hall not assume any res	ponsibility for a	ny losses or	expense	es incurre	d by th	ne client if	such loss	es are due	to circur	mstances	beyond	I the cor	trol	ed.							
Relinquished by:	(Signature)	Rece	ived by: (Signatu	ıre)			Date/	Time		Rel	inquish	ed by:	: (Signa	ature	1		Recei	ved b	y: (Sigi	nature)	Date	/Time	
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															1						Rev	sed Date: 08/.	25/2020 Rev 2020.2	



















Page 66 of 87

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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

List Number: 1 Creator: Clifton, Cloe

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

6

8

10

12

13

14

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

Released to Imaging: 11/16/2022 9:14:08 AM

<6mm (1/4").



July 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOMBU LAY FLAT LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/15/2022 Sampling Date: 07/15/2022

Reported: 07/18/2022 Sampling Type: Soil

Project Name: MOMBU LAY FLAT LINE RELEASE Sampling Condition: Cool & Intact
Project Number: 14434 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: OL - FL 1 @ 4' (H223092-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	mg/kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					
Surrogate: 1-Chlorooctane	87.3	% 43-149	ı						
Surrogate: 1-Chlorooctadecane	88.2	% 42.5-16	1						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/15/2022 Sampling Date: 07/15/2022

Reported: 07/18/2022 Sampling Type: Soil

Project Name: MOMBU LAY FLAT LINE RELEASE Sampling Condition: Cool & Intact
Project Number: 14434 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: OL - FL 2 @ 4' (H223092-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	g Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					
Surrogate: 1-Chlorooctane	90.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	89.7	% 42.5-16	1						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/15/2022 Sampling Date: 07/15/2022

Reported: 07/18/2022 Sampling Type: Soil

Project Name: MOMBU LAY FLAT LINE RELEASE Sampling Condition: Cool & Intact
Project Number: 14434 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: OL - NW 1 (H223092-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					
Surrogate: 1-Chlorooctane	93.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	93.1	% 42.5-16	1						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/15/2022 Sampling Date: 07/15/2022

Reported: 07/18/2022 Sampling Type: Soil

Project Name: MOMBU LAY FLAT LINE RELEASE Sampling Condition: Cool & Intact
Project Number: 14434 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: COG - EDDY CO NM

ma/ka

Sample ID: OL - EW 1 (H223092-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	90.7	% 42.5-16	1						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/15/2022 Reported: 07/18/2022

Sampling Date: 07/15/2022 Sampling Type: Soil

Project Name: Project Number:

MOMBU LAY FLAT LINE RELEASE Sampling Condition: Cool & Intact 14434 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: OL - SW 1 (H223092-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 43-149	1						
Surrogate: 1-Chlorooctadecane	89.2	% 42.5-16	1						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/15/2022 Sampling Date: 07/15/2022

Reported: 07/18/2022 Sampling Type: Soil

Project Name: MOMBU LAY FLAT LINE RELEASE Sampling Condition: Cool & Intact
Project Number: 14434 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: COG - EDDY CO NM

Sample ID: OL - WW 1 (H223092-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					
Surrogate: 1-Chlorooctane	85.4	% 43-149	1						
Surrogate: 1-Chlorooctadecane	88.5	% 42.5-16	1						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

10:00:01

Received by OCD: 9/19/2022

Page 9 of 9

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	ETech Environmental 350	64	15	de	Lion	6, 1	ne		A	B //	LL TO					ANA	LYSI	RE	QUE	ST		
Project Manager	Tock Lowry		1			1	1	P.O.	#:													
Address: Z6/	ETECH Environmental ? Scalety Solutions, Inc. Tock Lowry 7 Marland						Company: 006													j	1	
City: #26	State: Um	Zip	: 8	824	10			Attn:														- 1
Phone #: 57	5-264.9884 Fax #:						1	Addn	ess:								1				l	
Project #:	14434 Project Owner	r: (0	6				City:														
Project Name: /	Momba Lay Flat Line: Rural Eddy co NM Miguel Kamilon	Rel	cal	e				State	:		Zip:											
Project Location	: Kural Eddy of NA						1	Phon	e #:				1								ĺ	- 1
Sampler Name:	Miquel Kamilou	_					_	ax i	_				1.1									
FOR LAB USE ONLY	,				MA	TRIX		PI	RESEF	RV.	SAMPI	LING										- 1
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorides	BTEX	HAL							
((01-F1 1000 4'-WE	1	(Y				Y		7/5/22		X	X	x							
345	06-PL2@194cm 06-Nw/ 06-EW/ 06-3W/ 06-4W/					(\ \ \				1		ļ							

PLEASE NOTIES: Licensey and counts a security and counts as security as a security and an account of the security and an account of the security and se

attended of successors arising out of or related to the pe	STORTAINCE O SERVICES References by Ca	ardinal, regardless of whether such claim is b	ased upon any or the above statou ro	and the Continue.
Relinguished By:	Date:	Received By:	011	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
amp	7-15-22 Time: 1245	Lawara	W/date	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:		REMARKS:
				Prope fechenvico
	Time:			116000
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turneround Time: Standard Bacteria (only) Sample Condition
		Cool Intact	(โทโซลเรา)	Rush Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	3 2 Yes Yes		Thermometer ID #113 Yes Yes
		NO I NO	Y -	Correction Factor 0.5°C OSON OSON OSON OSON OSON OSON OSON OSO
TORM-000 K 3.2 10/0/121				V

Appendix D Photographic Log

Photo Number:

1

Photo Direction: Southwest

Photo Description:

View of the point of release.



Photo Number:

2

Photo Direction:

East-Southeast

Photo Description:

View of the affected area.



Photo Number:

3

Photo Direction:

West

Photo Description:

View of the affected area.



Photo Number:

4

Photo Direction:

East-Southeast

Photo Description:

View of the affected area.



Photo Number:

5

Photo Direction: East-Southeast

Photo Description:

View of the affected area.



Photo Number:

6

Photo Direction: South-Southwest

Photo Description:

View of the excavated area.



Photo Number:

7

Photo Direction: South-Southwest

Photo Description:



View of the excavated area.

Photo Number:

8

Photo Direction:

South-Southeast

Photo Description:

View of the excavated area.



Photo Number:

9

Photo Direction: East-Northeast

Photo Description:

View of the excavated area.



Photo Number:

10

Photo Direction:

South-Southeast

Photo Description:

View of the remediated area after backfilling and regrading.

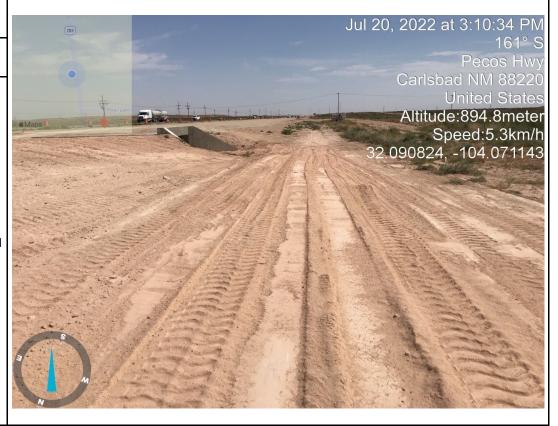


Photo Number:

11

Photo Direction: East-Southeast

Photo Description:

View of the excavated area.



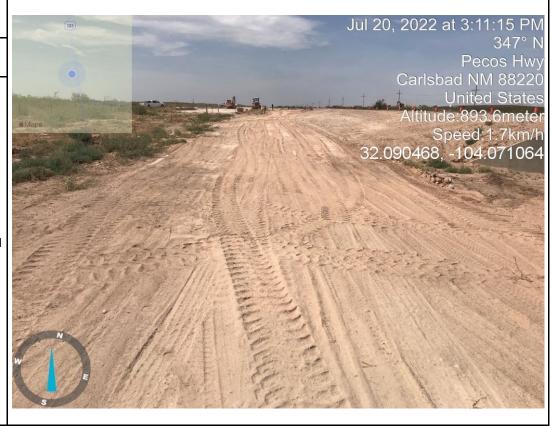
Photo Number:

12

Photo Direction: North-Northwest

Photo Description:

View of the remediated area after backfilling and regrading.



Appendix E Regulatory Correspondence

 From:
 Lance Crenshaw

 To:
 Enviro, OCD, EMNRD

 Cc:
 Ben Arguijo; Joel Lowry

Subject: Excavation Confirmation Sampling notice for napp2120130933

Date: Tuesday, July 19, 2022 11:11:57 AM

This email serves as notice that Etech intends to collect excavation confirmation soil samples from the following locations/reportable release sites:

Concho Oil & Gas – Momba Lay Flat Line – napp2120130933

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email (lance@etechenv.com).

Thank you and have a great day.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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 144438

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	144438
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition Date
Ву		
jnobui	Closure Report Approved. Please provide OCD information (contents of release and volume, C141 status, 3rd party, etc) on the second release that occurred at the site on 9/27/21 that overlapped with this release (SP1).	11/16/2022