Page 6

Incident ID	
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 it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	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 rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the O Printed Name: Signature:	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface v party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Bradford Billings	Date:05/31/2022
Printed Name:	Title: Env. Spec. A



## **CLOSURE REQUEST REPORT**

Chevron Corporation Baish Federal #012 Eddy County, New Mexico Unit Letter "C", Section 09, Township 18 South, Range 31 East Latitude 32.76659° North, Longitude 103.87780° West NMOCD Reference #: nKMW1108946072

Prepared For:

**Chevron Corporation** 6301 Deauville Blvd. Midland, TX 79706

Prepared By:

**Etech Environmental & Safety Solutions, Inc.** P.O. Box 62228 Midland, Texas 79711

March 25, 2022

Blahtito

Blake Estep Project Manager

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## APPENDICES

Appendix A – Depth to Groundwater Information

Appendix B – Photographic Documentation

Appendix C – Analytical Reports

Appendix D – Release Notification and Corrective Action (Form C-141)

### **INTRODUCTION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron Corporation, has prepared this Closure Request Report for the release site known as Baish Federal #012. The legal description of the release site is Unit Letter "C", Section 9, Township 18 South, Range 31 East, in Eddy County, New Mexico. The GPS coordinates are 32.76659° North and 103.87780° West. A "Site Location Topographic Map" is provided as Figure 1. A copy of the New Mexico Oil Conservation Division (NMOCD) Release Notification and Corrective Action (Form C-141) is provided in Appendix D.

On July 16, 2009, a flowline ruptured resulting in the release at Baish Federal #012 site (Release Site). Approximately forty (40) barrels of produced water was released into the adjacent pasture. Approximately twenty-five (25) barrels of produced water was recovered via vacuum trucks.

From August 11 through 18, 2009, remediation activites were conducted by a third-party environmental contractor that is no longer affiliated with the Release Site. The impacted area was excavated to depths ranging from six (6) inches to five (5) feet below ground surface (bgs). Seven (7) bottom hole samples were collected throughout the excavated area and submitted to Cardinal Laboratories to be analyzed for chloride concentrations. The bottom hole samples came back below the NMOCD cleanup standard for chloride that was in effect at the time of the release. Labratory analytical data is provided in Appendix C.

Photographic documentation of the release site is provided as Appendix B.

## NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) identified that there are no freshwater wells within a half (1/2) mile of the Release Site. The closest freshwater well (Well No.: 324502103495801) is approximately 2.74 miles to the southeast. The USGS database indicated groundwater should be encountered at approximately three hundred seventy-six (376) feet bgs. No surface water or water wells were observed within one thousand (1,000) feet of the release site. The Baish Federal #012 is not considered to be in a karst area and is considered stable. An "Aerial Proximity Map" is provided as Figure 2.

Based on the NMOCD site classification system, the following soil remediation levels were assigned to the Baish Federal #012 site as a result of this criteria:

- Benzene 10 mg/kg
- (BTEX) 50 mg/kg
- (TPH) 100 mg/kg
- Chloride 600 mg/kg

## INITIAL SITE ASSESSMENT AND DELINEATION

On February 15, 2022, Etech conducted an assessment and sampling event at the Baish Federal #012 to determine the condition of the soil where the spill had occurred. Five (5) soil borings were installed, including one (1) bottom hole sample and four (4) sidewall samples in each cardinal direction. Samples were collected at eighteen (18) inches bgs for the bottom hole sample and twelve (12) inches bgs for the sidewall samples (refer to Figure 3). Samples were submitted to Xenco Eurofins to be analyzed for TPH, chlorides, and BTEX concentrations. A "Site and Sample Location Map" is provided as Figure 3.

Laboratory results indicated TPH, chloride, and BTEX concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples (refer to Table 1).

Analytical reports are provided in Appendix C.

## SITE CLOSURE REQUEST

Laboratory analytical results indicate TPH, chloride, and BTEX concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples. Based on laboratory analytical results and field observations made during the February 2022 site assessment, the affected area appears to be restored to its original condition and vegetation growth has been occurring at a steady rate. Etech, on behalf of Chevron Corporation, respectfully request that the NMOCD District 1 Office grant site closure to the Baish Federal #012 (NMOCD Incident ID: nKMW1108946072).

## LIMITATIONS

Etech has prepared this Closure Request Report 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 has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also 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 Chevron Corporation. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Chevron Corporation.

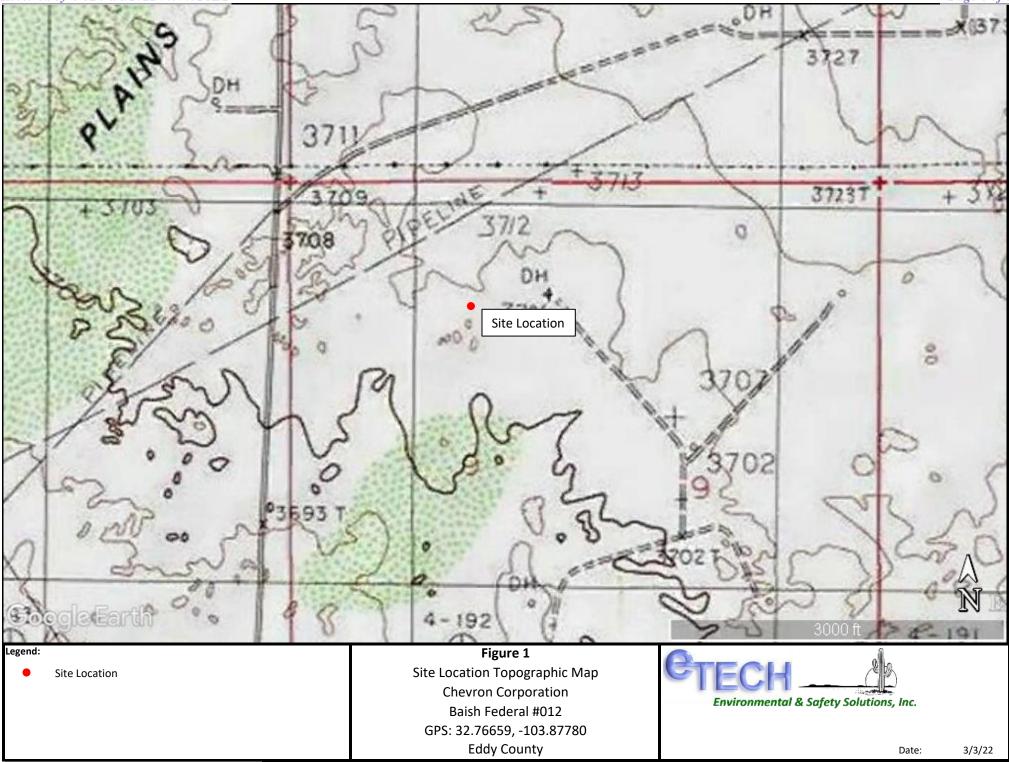
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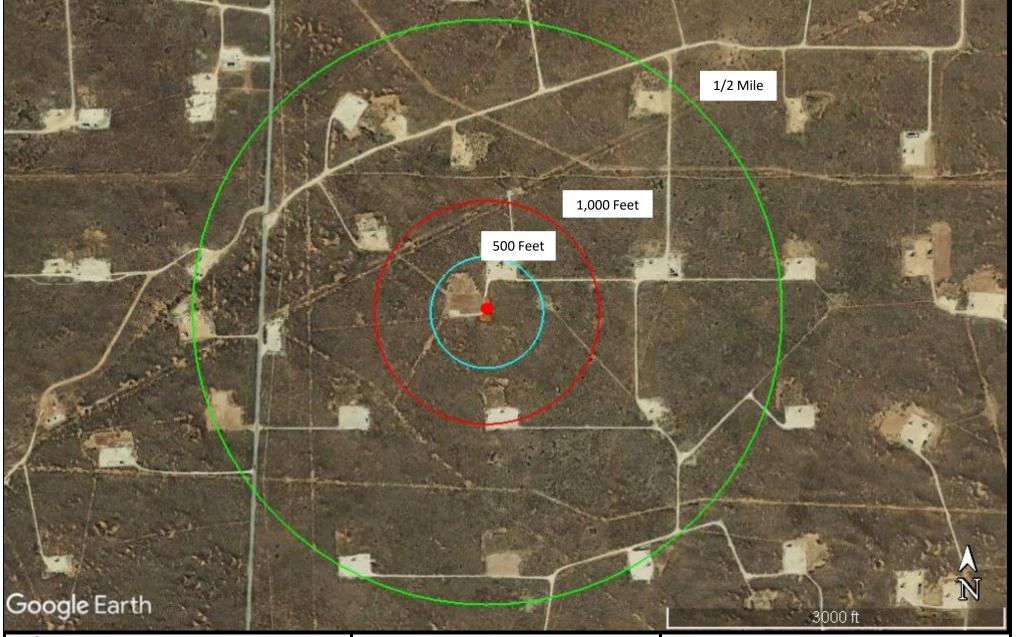
## DISTRIBUTION

Copy 1:	New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505
Copy 2:	Amy Barnhill Chevron Corporation 6301 Deauville Bulverde Midland, Texas 79706
Copy 3:	Etech Environmental & Safety Solutions, Inc. P.O. Box 62228 Midland, Texas 79711

## **FIGURES**

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Fresh



Fresh Water Well

100-Year Floodplain High/Critical Karst Figure 2 Aerial Proximity Map Chevron Corporation Baish Federal #012 GPS: 32.76629, -103.87719 Eddy County



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Non-Inustrial Building

Subsurface Mine

5



## TABLES

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#### TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

#### **CHEVRON CORPORATION**

#### Baish Federal #012

#### EDDY COUNTY, NEW MEXICO All concentrations are reported in mg/Kg

		~			METHODS:	SW 846-80211	B			Μ	IETHOD: SW 801	.5M		E 300.0
SAMPLE LOCATION	DEPTH	SAMPLE DATE	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C <sub>6</sub> -C <sub>12</sub>	<b>TPH DRO</b> C <sub>12</sub> -C <sub>28</sub>	TPH ORO C <sub>28</sub> -C <sub>35</sub>	ТОТАL ТРН С <sub>6</sub> -С <sub>35</sub>	CHLORIDE
			10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
Sample Point 1	18''	8/5/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48
Sample Point 2	18''	8/5/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Sample Point 3	18''	8/5/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Sample Point 4	12''	8/5/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48
Sample Point 5	60''	8/6/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48
Sample Point 6	6''	8/10/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	128
Sample Point 7	12''	8/10/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Bottom Hole 1	18''	2/15/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Sidewall	12"	2/15/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
East Sidewall	12''	2/15/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
South Sidewall	12''	2/15/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
West Sidewall	12"	2/15/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit

ND - Analyte Not Detected at or above the laboratory reporting limit

\*\* - Sample area was eliminated during further excavation activities.

## APPENDICES

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Appendix A – Depth to Groundwater Information



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

No records found.

UTMNAD83 Radius Search (in meters):

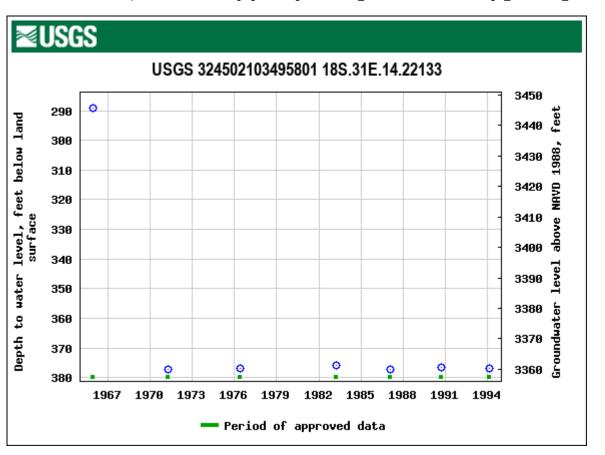
Easting (X): 605166.7

Northing (Y): 3625931

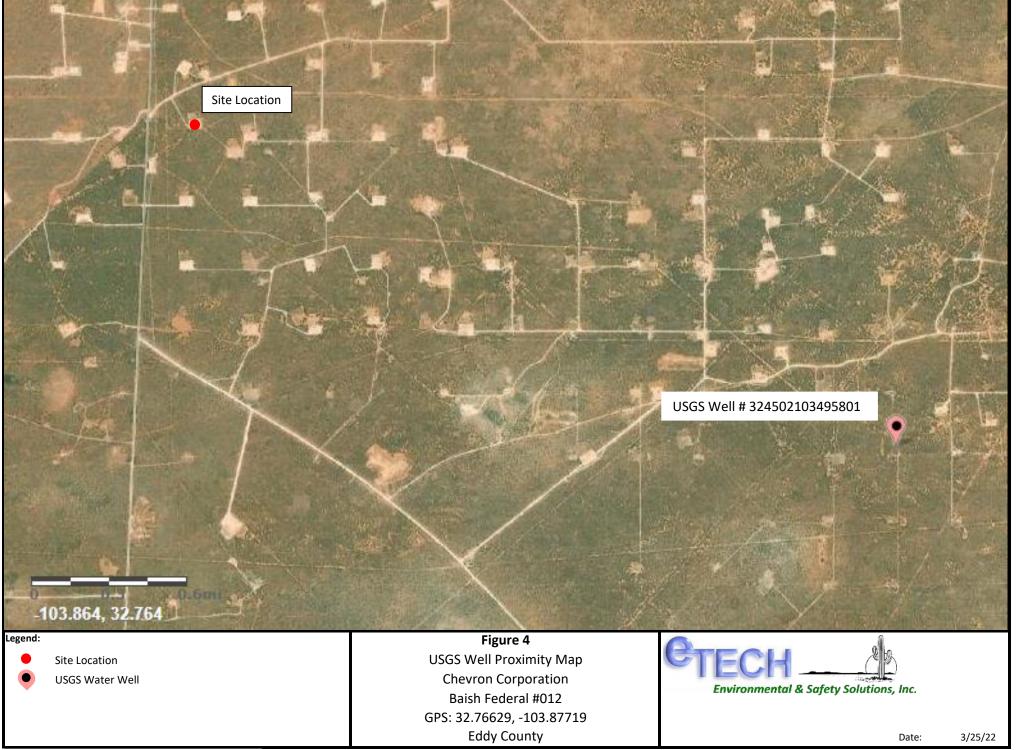
Radius: 804

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.

Ressized by 9 GP: 4/4/2022 9/137:5 Haterdata.usgs.gov/nwis/gwlevels?site\_no=324502103495801&begin\_date=&end\_date=&format=img&sub-Rited\_16.of 52



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Appendix B – Photographic Documentation

Project Name: Baish Federal #012 Project No: 15307

#### Photographic Documentation





Photographic Documentation

Project Name: Baish Federal #012 Project No: 15307

Photo No: 3.	
-	
Direction Taken:	
South	
Description:	
View of release on July 16, 2009.	
10, 2009.	A A A A



Project Name: Baish Federal #012 Project No: 15307 Photographic Documentation





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Project Name: Baish Federal #012 Project No: 15307 Photographic Documentation





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Appendix C – Analytical Reports

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# 🔅 eurofins

## Environment Testing America

## ANALYTICAL REPORT

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

## Laboratory Job ID: 880-11351-1

Laboratory Sample Delivery Group: 15307 Client Project/Site: Basin Federal #012

## For:

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

Attn: Brandon Wilson

KRAMER

Authorized for release by: 2/25/2022 4:25:54 PM

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 5/31/2022 11:01:37 AM

2

SDG: 15307

Laboratory Job ID: 880-11351-1

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QC Association Summary	14
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Method Summary	19
Sample Summary	20
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	Definitions/Glossary		
	nvironmental & Safety Solutions	Job ID: 880-11351-1	
Project/Site: Ba	sin Federal #012	SDG: 15307	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		Q
CFL	Contains Free Liquid		3
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		
LOD	Limit of Detection (DoD/DOE)		
LOQ	Limit of Quantitation (DoD/DOE)		
MCL	EPA recommended "Maximum Contaminant Level"		
MDA	Minimum Detectable Activity (Radiochemistry)		
MDC	Minimum Detectable Concentration (Radiochemistry)		
MDL	Method Detection Limit		
ML	Minimum Level (Dioxin)		
MPN	Most Probable Number		
MQL	Method Quantitation Limit		
NC	Not Calculated		
ND	Not Detected at the reporting limit (or MDL or EDL if shown)		
NEG	Negative / Absent		
POS	Positive / Present		
PQL	Practical Quantitation Limit		

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

Job ID: 880-11351-1 SDG: 15307

#### Job ID: 880-11351-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-11351-1

#### Receipt

The samples were received on 2/16/2022 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-11400-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

## **Client Sample Results**

Job ID: 880-11351-1 SDG: 15307

## **Client Sample ID: Bottom Hole 1**

Client: Etech Environmental & Safety Solutions

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 02/15/22 11:00 Date Received: 02/16/22 13:00

Sample Depth: 18"

Project/Site: Basin Federal #012

Lab Sample ID: 880-11351-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:39	02/24/22 23:15	
Toluene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:39	02/24/22 23:15	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:39	02/24/22 23:15	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/24/22 09:39	02/24/22 23:15	
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:39	02/24/22 23:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/24/22 09:39	02/24/22 23:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101		70 - 130				02/24/22 09:39	02/24/22 23:15	
1,4-Difluorobenzene (Surr)	99		70 - 130				02/24/22 09:39	02/24/22 23:15	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/25/22 13:43	
Total TPH Method: 8015B NM - Diesel Rang	<50.0		50.0		mg/Kg			02/21/22 19:16	
					Unit	_	Prepared	Analyzed	
Analyte	Result	Qualifier	RL	MDL		D			Dil Fac
Gasoline Range Organics	Result <50.0		RL 50.0	MDL	mg/Kg	D	02/17/22 11:56	02/19/22 15:41	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	UU	50.0	MDL	mg/Kg	<u>D</u>	02/17/22 11:56	02/19/22 15:41	· · · · · · · · · · · · · · · · · · ·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0	บ บ บ	50.0	MDL	mg/Kg mg/Kg	<u>D</u>	02/17/22 11:56 02/17/22 11:56	02/19/22 15:41	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <b>Surrogate</b>	<50.0 <50.0 <50.0	บ บ บ	50.0 50.0 50.0	MDL	mg/Kg mg/Kg	<u>D</u>	02/17/22 11:56 02/17/22 11:56 02/17/22 11:56	02/19/22 15:41 02/19/22 15:41 02/19/22 15:41	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0 %Recovery	บ บ บ	50.0 50.0 50.0 Limits	MDL	mg/Kg mg/Kg	<u> </u>	02/17/22 11:56 02/17/22 11:56 02/17/22 11:56 <b>Prepared</b>	02/19/22 15:41 02/19/22 15:41 02/19/22 15:41 02/19/22 15:41 <b>Analyzed</b>	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <b>Surrogate</b> 1-Chlorooctane	<50.0 <50.0 <50.0 <b>%Recovery</b> 80 79	บ บ บ	50.0 50.0 50.0 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg	<u>D</u>	02/17/22 11:56 02/17/22 11:56 02/17/22 11:56 <b>Prepared</b> 02/17/22 11:56 02/17/22 11:56	02/19/22 15:41 02/19/22 15:41 02/19/22 15:41 02/19/22 15:41 <u>Analyzed</u> 02/19/22 15:41	Dil Fac Dil Fac 1351-2

Sample Depth: 12"

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

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:36	1
<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:36	1
<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:36	1
<0.00400	U	0.00400		mg/Kg		02/24/22 09:39	02/24/22 23:36	1
<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:36	1
<0.00400	U	0.00400		mg/Kg		02/24/22 09:39	02/24/22 23:36	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
101		70 - 130				02/24/22 09:39	02/24/22 23:36	1
96		70 - 130				02/24/22 09:39	02/24/22 23:36	1
	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <b>%Recovery</b> 101		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200         U         0.00200         mg/Kg         02/24/22 09:39           <0.00200	<0.00200         U         0.00200         mg/Kg         02/24/22 09:39         02/24/22 23:36           <0.00200

Job ID: 880-11351-1 SDG: 15307

Lab Sample ID: 880-11351-2

## Client Sample ID: North Sidewall Date Collected: 02/15/22 11:02

Client: Etech Environmental & Safety Solutions

Date Received: 02/16/22 13:00

Project/Site: Basin Federal #012

Sample Depth: 12"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/25/22 13:43	
Method: 8015 NM - Diesel						_			
			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesei Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 16:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 16:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/17/22 11:56	02/19/22 16:02	1
o-Terphenyl	70		70 - 130				02/17/22 11:56	02/19/22 16:02	1

#### **Client Sample ID: East Sidewall**

Date Collected: 02/15/22 11:04

Date Received: 02/16/22 13:00

Sample Depth: 12"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/22 09:39	02/24/22 23:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:39	02/24/22 23:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/22 09:39	02/24/22 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				02/24/22 09:39	02/24/22 23:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/24/22 09:39	02/24/22 23:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/25/22 13:43	1
Method: 8015 NM - Diesel Range O	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	- 10.0		49.9		mg/Kg			02/21/22 19:16	1
-	<49.9 Organics (DI		49.9		ilig/Kg			02/21/22 19.10	I
Method: 8015B NM - Diesel Range			49.9		ilig/Kg			02/21/22 19.10	I
Method: 8015B NM - Diesel Range Analyte	Organics (DF Result	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	 Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DI	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 02/17/22 11:56		Dil Fac
Method: 8015B NM - Diesel Range Analyte	Organics (DF Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	· · ·	Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DF Result	RO) (GC) Qualifier U	RL	MDL	Unit	<u>D</u>	· · ·	Analyzed	Dil Fac 1
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DF Result <49.9	RO) (GC) Qualifier U	<b>RL</b> 49.9	MDL	Unit mg/Kg	<u> </u>	02/17/22 11:56	Analyzed 02/19/22 16:23	Dil Fac 1

**Eurofins Midland** 

Matrix: Solid

## Lab Sample ID: 880-11351-3 Matrix: Solid

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Client: Etech Environmental & Safety Solutions

## **Client Sample Results**

Job ID: 880-11351-1 SDG: 15307

Client Sample ID: East Sidev Date Collected: 02/15/22 11:04 Date Received: 02/16/22 13:00 Sample Depth: 12"	vall						Lab Sam	ple ID: 880-1 Matri	1351-3 x: Solic
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/17/22 11:56	02/19/22 16:23	1
o-Terphenyl _	86		70 - 130				02/17/22 11:56	02/19/22 16:23	-
Client Sample ID: South Side Date Collected: 02/15/22 11:06 Date Received: 02/16/22 13:00 Sample Depth: 12"	ewall						Lab Sam	ple ID: 880-1 Matri	1351-4 x: Solid
Method: 8021B - Volatile Organic	Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		02/24/22 09:39	02/25/22 00:17	
Toluene	<0.00198	U	0.00198		mg/Kg		02/24/22 09:39	02/25/22 00:17	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/24/22 09:39	02/25/22 00:17	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/24/22 09:39	02/25/22 00:17	
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/24/22 09:39	02/25/22 00:17	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/24/22 09:39	02/25/22 00:17	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130				02/24/22 09:39	02/25/22 00:17	
Method: Total BTEX - Total BTEX Analyte Total BTEX		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
	<0.00390	0	0.00396		mg/Kg			02/25/22 15.45	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			02/21/22 19:16	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 16:44	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 16:44	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 16:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	71		70 - 130				02/17/22 11:56	02/19/22 16:44	
o-Terphenyl	68	S1-	70 - 130				02/17/22 11:56	02/19/22 16:44	
Client Sample ID: West Side	wall						Lab Sam	ple ID: 880-1	1351-(
Date Collected: 02/15/22 11:08 Date Received: 02/16/22 13:00 Gample Depth: 12"								Matri	x: Soli
- Method: 8021B - Volatile Organic	: Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00202	U	0.00202		mg/Kg		02/24/22 09:39	02/25/22 00:37	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:39	02/25/22 00:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:39	02/25/22 00:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:39	02/25/22 00:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/24/22 09:39	02/25/22 00:37	1

## **Client Sample Results**

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Job ID: 880-11351-1 SDG: 15307

Matrix: Solid

5

Lab Sample ID: 880-11351-5

02/19/22 17:05

1

## **Client Sample ID: West Sidewall**

Client: Etech Environmental & Safety Solutions

Date Collected: 02/15/22 11:08 Date Received: 02/16/22 13:00

Project/Site: Basin Federal #012

Sample Depth: 12"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:39	02/25/22 00:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/24/22 09:39	02/25/22 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/24/22 09:39	02/25/22 00:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/24/22 09:39	02/25/22 00:37	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/25/22 13:43	1
Method: 8015 NM - Diesel Range Analyte Total TPH	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/21/22 19:16	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 17:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0 <50.0		50.0 50.0		mg/Kg mg/Kg		02/17/22 11:56 02/17/22 11:56	02/19/22 17:05 02/19/22 17:05	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate		U							1 1 <i>Dil Fac</i>

Surrogate	%Recovery	Qualifier	Limits	Prepared
1-Chlorooctane	76		70 - 130	02/17/22 11:56
o-Terphenyl	72		70 - 130	02/17/22 11:56

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
ab Sample ID	Client Sample ID	(70-130)	(70-130)		
80-11351-1	Bottom Hole 1	101	99		
80-11351-1 MS	Bottom Hole 1	101	99		
80-11351-1 MSD	Bottom Hole 1	104	100		
380-11351-2	North Sidewall	101	96		
880-11351-3	East Sidewall	108	92		
380-11351-4	South Sidewall	105	96		
880-11351-5	West Sidewall	103	97		
.CS 880-20192/1-A	Lab Control Sample	102	99		
CSD 880-20192/2-A	Lab Control Sample Dup	104	101		
MB 880-19723/5-A	Method Blank	99	95		
MB 880-20192/5-A	Method Blank	98	94		
Surrogate Legend					

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-11351-1	Bottom Hole 1	80	79
880-11351-2	North Sidewall	74	70
880-11351-3	East Sidewall	88	86
880-11351-4	South Sidewall	71	68 S1-
880-11351-5	West Sidewall	76	72
880-11400-A-1-E MS	Matrix Spike	76	76
880-11400-A-1-F MSD	Matrix Spike Duplicate	69 S1-	69 S1-

OTPH = o-Terphenyl

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

### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limi
		1CO2	OTPH2	
Sample ID	Client Sample ID	(70-130)	(70-130)	
19690/2-A	Lab Control Sample	100	108	·  ·
30-19690/3-A	Lab Control Sample Dup	105	112	
80-19690/1-A	Method Blank	88	92	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

## Prep Type: Total/NA

<sup>1</sup>CO = 1-Chlorooctane

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19723/	5-A									Client Sa	mple ID: Meth	od Blank
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 20184											Prep Batc	h: 19723
	MB	MB										
Analyte	Result	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg		_	02/2	4/22 07:45	02/24/22 11:10	1
Toluene	<0.00200	U	0.00200			mg/Kg			02/2	4/22 07:45	02/24/22 11:10	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg			02/2	4/22 07:45	02/24/22 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg			02/2	4/22 07:45	02/24/22 11:10	1
o-Xylene	<0.00200	U	0.00200			mg/Kg			02/2	4/22 07:45	02/24/22 11:10	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kg			02/2	4/22 07:45	02/24/22 11:10	1
	МВ	МВ										
Surrogate	%Recovery		Limits						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130							24/22 07:45	02/24/22 11:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130							24/22 07:45	02/24/22 11:10	1
	50		10 - 100						02/2		02/24/22 11:10	,
Lab Sample ID: MB 880-20192/	5-A									<b>Client Sa</b>	mple ID: Meth	od Blank
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 20184											Prep Batc	h: 20192
-	MB	MB										
Analyte	Result	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg		_	02/2	4/22 09:39	02/24/22 22:54	1
Toluene	<0.00200	U	0.00200			mg/Kg			02/2	4/22 09:39	02/24/22 22:54	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg			02/2	4/22 09:39	02/24/22 22:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg			02/2	4/22 09:39	02/24/22 22:54	1
o-Xylene	<0.00200	U	0.00200			mg/Kg			02/2	4/22 09:39	02/24/22 22:54	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kg			02/2	4/22 09:39	02/24/22 22:54	1
Surrogata	MB % Recovery		Limits							ronorod	Analyzad	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 									repared 24/22 09:39	Analyzed 02/24/22 22:54	
1,4-Difluorobenzene (Surr)	94		70 - 130 70 - 130							24/22 09:39	02/24/22 22:54	1
	•										•======••	
Lab Sample ID: LCS 880-20192	/ <b>1-A</b>							С	lient	Sample I	D: Lab Contro	I Sample
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 20184											Prep Batc	h: 20192
			Spike	LCS	LCS	;					%Rec.	
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.1094			mg/Kg			109	70 _ 130	
Toluene			0.100	0.1080			mg/Kg			108	70 - 130	
Ethylbenzene			0.100	0.1082			mg/Kg			108	70 - 130	
m-Xylene & p-Xylene			0.200	0.2226			mg/Kg			111	70 - 130	
o-Xylene			0.100	0.1088			mg/Kg			109	70 - 130	
-												
Surragata	LCS LCS		Limite									
Surrogate	%Recovery Qua 102		Limits 70 - 130									
4-Bromofluorobenzene (Surr)												
1,4-Difluorobenzene (Surr)	99		70 - 130									
Lab Sample ID: LCSD 880-2019	92/2-A						Cli	ent	Sam	nple ID: La	ab Control San	nple Dup
Matrix: Solid											Prep Type:	
Analysis Batch: 20184											Prep Bato	
Analysis Buton, 20104			Spike	LCSD	LCS	D					%Rec.	RPD
Analyte			Added	Result			Unit		D	%Rec	Limits RP	
				resoult	aud					/01.00		

2/25/2022

4

35

0.1056

mg/Kg

106

70 - 130

0.100

Job ID: 880-11351-1 SDG: 15307

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

Job ID: 880-11351-1 SDG: 15307

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

Lab Sample ID: LCSD 880-20 Matrix: Solid	)192/2-A					Clie	nt San	nple ID: I	Lab Contro Prep 1	l Sampl Type: To	
Analysis Batch: 20184										Batch:	
			Spike	LCSD	LCSD				%Rec.		RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Toluene			0.100	0.1044		mg/Kg		104	70 - 130	3	3
Ethylbenzene			0.100	0.1037		mg/Kg		104	70 - 130	4	3
m-Xylene & p-Xylene			0.200	0.2138		mg/Kg		107	70 - 130	4	3
o-Xylene			0.100	0.1055		mg/Kg		105	70 - 130	3	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								
Lab Sample ID: 880-11351-1	MS							Client S	ample ID: E	Bottom I	Hole
Matrix: Solid									Prep 1	Type: To	tal/N
Analysis Batch: 20184									Prep	Batch:	2019
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.0996	0.1030		mg/Kg		103	70 - 130		
Toluene	<0.00199	U	0.0996	0.1018		mg/Kg		102	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1002		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2090		mg/Kg		105	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1073		mg/Kg		108	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: 880-11351-1	MSD							Client S	ample ID: I		
Matrix: Solid										Type: To	
Analysis Batch: 20184										Batch:	
	-	Sample	Spike	MSD	MSD		_		%Rec.		RP
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	< 0.00199		0.0998	0.1114		mg/Kg		112	70 - 130	8	3
	< 0.00199		0.0998	0.1105		mg/Kg		111	70 - 130	8	3
Ethylbenzene	<0.00199		0.0998	0.1094		mg/Kg		110	70 - 130	9	3
m-Xylene & p-Xylene	< 0.00398		0.200	0.2279		mg/Kg		114	70 - 130	9	3
o-Xylene	<0.00199	U	0.0998	0.1154		mg/Kg		116	70 - 130	7	3
Surromata		MSD Qualifiar	l imit-								
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Quaimer	Limits								
	104		70 - 130 70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								
lethod: 8015B NM - Dies	el Range O	ganics (L									
Method: 8015B NM - Dies Lab Sample ID: MB 880-1969		ganics (L	KU) (GC)					Client S	ample ID:		
		ganics (L	JKO) (GC)					Client S	Prep 1	Method Type: To Batch:	tal/N

## Analysis Batch: 19863

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/22 11:56	02/19/22 12:29	1
(GRO)-C6-C10									

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012 Job ID: 880-11351-1 SDG: 15307

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

Lab Sample ID: MB 880-19690	<i>л</i> 1- <b>A</b>								Chefit Sa	ample ID:		
Matrix: Solid											Type: To	
Analysis Batch: 19863		в мв								Prep	Batch:	19690
A maluán			DI.			11		_	Duonouod	Analu		
Analyte		It Qualifier 0 U	<b>RL</b> 50.0		MDL				Prepared /17/22 11:56	Analyz 02/19/22		Dil Fac
Diesel Range Organics (Over C10-C28)	<50.	0 0	50.0			mg/Kg		02	/1//22 11.50	02/19/22	12.29	I
Oll Range Organics (Over C28-C36)	<50.	0 U	50.0			mg/Kg		02	/17/22 11:56	02/19/22	12:29	1
						0 0						
		B MB										
Surrogate		y Qualifier	Limits						Prepared	Analyz		Dil Fac
1-Chlorooctane	8		70 - 130						/17/22 11:56	02/19/22		1
p-Terphenyl	9	2	70 _ 130					02	/17/22 11:56	02/19/22	12:29	1
Lab Sample ID: LCS 880-1969	0/2-4							Clier	nt Sample	ID: Lah C	ontrol S	amnle
Matrix: Solid								- 101	campio		Гуре: То	-
Analysis Batch: 19863											Batch:	
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result		ifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	961.8			mg/Kg		96	70 - 130		
GRO)-C6-C10							5 5					
Diesel Range Organics (Over			1000	931.0		I	mg/Kg		93	70 - 130		
C10-C28)												
	LCS LC	s										
Surrogate	%Recovery Qu	ualifier	Limits									
I-Chlorooctane	100		70 - 130									
o-Terphenyl	108		70 - 130									
	5 <b>90/3-A</b>		70 - 730				Clie	nt Sa	mple ID: L			-
Matrix: Solid	690/3-A			1.000		_	Clie	nt Sa	mple ID: L	Prep Prep	ol Sampl Type: To Batch:	tal/NA 19690
Matrix: Solid Analysis Batch: 19863	690/3-A		Spike	LCSD						Prep T Prep %Rec.	Type: To Batch:	tal/NA 19690 RPD
Matrix: Solid Analysis Batch: 19863 <sup>Analyte</sup>	590/3-A		Spike Added	Result		ifier	Unit	nt Sa	%Rec	Prep Prep %Rec. Limits	Type: To Batch: 	tal/NA 19690 RPD Limit
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics	690/3-A		Spike			ifier				Prep T Prep %Rec.	Type: To Batch:	tal/NA 19690 RPD
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics GRO)-C6-C10	590/3-A		Spike Added	Result		ifier	Unit		%Rec	Prep Prep %Rec. Limits	Type: To Batch: 	tal/NA 19690 RPD Limit
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	590/3-A		Spike Added 1000	Result 972.9		ifier	<b>Unit</b> mg/Kg		%Rec97	Prep Prep %Rec. Limits 70 - 130	Type: To Batch: RPD 1	tal/NA 19690 RPD Limit 20
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	590/3-A		Spike Added 1000	Result 972.9		ifier	<b>Unit</b> mg/Kg		%Rec97	Prep Prep %Rec. Limits 70 - 130	Type: To Batch: RPD 1	tal/NA 19690 RPD Limit 20
Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			Spike Added 1000	Result 972.9		ifier	<b>Unit</b> mg/Kg		%Rec97	Prep Prep %Rec. Limits 70 - 130	Type: To Batch: RPD 1	tal/NA 19690 RPD Limit 20
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD LC		<b>Spike</b> Added 1000 1000	Result 972.9		ifier	<b>Unit</b> mg/Kg		%Rec97	Prep Prep %Rec. Limits 70 - 130	Type: To Batch: RPD 1	tal/NA 19690 RPD Limit 20
Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	LCSD LC %Recovery Qu		Spike Added 1000 1000 Limits	Result 972.9		ifier	<b>Unit</b> mg/Kg		%Rec97	Prep 7 Prep %Rec. Limits 70 - 130	Type: To Batch: RPD 1	tal/NA 19690 RPD Limit 20
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD LC %Recovery Qu 105		Spike           Added           1000           1000           Limits           70 - 130	Result 972.9		ifier	<b>Unit</b> mg/Kg		%Rec97	Prep 7 Prep %Rec. Limits 70 - 130	Type: To Batch: RPD 1	tal/NA 19690 RPD Limit 20
Matrix: Solid Analysis Batch: 19863 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-11400-A-1	LCSD LC %Recovery Qu 105 112		Spike           Added           1000           1000           Limits           70 - 130	Result 972.9		ifier	<b>Unit</b> mg/Kg		97 92	Prep 7 Prep % %Rec. Limits 70 - 130 70 - 130	Type: To Batch: RPD 1 1 2: Matrix	tal/NA 19690 RPD Limit 20 20 Spike
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid	LCSD LC %Recovery Qu 105 112		Spike           Added           1000           1000           Limits           70 - 130	Result 972.9		ifier	<b>Unit</b> mg/Kg		97 92	Prep 7 Prep % %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid	LCSD LC %Recovery Qu 105 112 1-E MS	ualifier	Spike           Added           1000	<b>Result</b> 972.9 918.4	Quali	ifier	<b>Unit</b> mg/Kg		97 92	Prep 7 Prep % %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 Prep	Type: To Batch: RPD 1 1 2: Matrix	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863	LCSD LC %Recovery Qu 105 112 1-E MS Sample Sa	ualifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           5pike	<b>Result</b> 972.9 918.4 MS	Quali	ifier	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 97 92	Prep           %Rec.           Limits           70 - 130           70 - 130           Sample ID           Prep           %Rec.	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte	LCSD LC %Recovery Qu 105 112 1-E MS Sample Sa Result Qu	ualifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           5pike           Added	Result           972.9           918.4           MS           Result	Quali	ifier	Unit mg/Kg mg/Kg Unit		%Rec 97 92 Client \$	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 8 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics	LCSD LC %Recovery Qu 105 112 1-E MS Sample Sa	ualifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           5pike	<b>Result</b> 972.9 918.4 MS	Quali	ifier	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 97 92	Prep           %Rec.           Limits           70 - 130           70 - 130           Sample ID           Prep           %Rec.	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte Basoline Range Organics GRO)-C6-C10	LCSD         LC           %Recovery         Qu           105         112           1-E MS         Sample         Sample           Result         Qu         Qu           <50.0	ualifier	Spike           Added           1000           1000           1000           1000           1000           5pike           Added           1000	Result           972.9           918.4           MS           Result           1155	Quali	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec           97           92           Client 3           %Rec           114	Prep           %Rec.           Limits           70 - 130           70 - 130           70 - 130           %Rec.           User           %Rec.           Limits           %Rec.           Limits           70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane p-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCSD LC %Recovery Qu 105 112 1-E MS Sample Sa Result Qu	ualifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           5pike           Added	Result           972.9           918.4           MS           Result	Quali	ifier	Unit mg/Kg mg/Kg Unit	<u>D</u>	%Rec 97 92 Client \$	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 8 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Lab Sample ID: LCSD 880-196 Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD         LC           %Recovery         Qu           105         112           1-E MS         Sample         Sample           Result         Qu         Qu           <50.0	umple ualifier	Spike           Added           1000           1000           1000           1000           1000           5pike           Added           1000	Result           972.9           918.4           MS           Result           1155	Quali	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec           97           92           Client 3           %Rec           114	Prep           %Rec.           Limits           70 - 130           70 - 130           70 - 130           %Rec.           User           %Rec.           Limits           %Rec.           Limits           70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane p-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCSD         LC           %Recovery         Qu           105         112           1-E MS         Sample         Sample           Result         Qu           <50.0	umple ualifier	Spike           Added           1000           1000           1000           1000           1000           5pike           Added           1000	Result           972.9           918.4           MS           Result           1155	Quali	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec           97           92           Client 3           %Rec           114	Prep           %Rec.           Limits           70 - 130           70 - 130           70 - 130           %Rec.           User           %Rec.           Limits           %Rec.           Limits           70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA
Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate A-Chlorooctane D-Terphenyl Lab Sample ID: 880-11400-A-1 Matrix: Solid Analysis Batch: 19863 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD         LC           %Recovery         Qu           105         112           1-E MS         Sample         Sa           Result         Qu         Qu           <50.0	umple ualifier	Spike         Added         1000         1000         1000         1000         1000         5pike         Added         1000         1000	Result           972.9           918.4           MS           Result           1155	Quali	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	%Rec           97           92           Client 3           %Rec           114	Prep           %Rec.           Limits           70 - 130           70 - 130           70 - 130           %Rec.           User           %Rec.           Limits           %Rec.           Limits           70 - 130	Type: To Batch: <u>RPD</u> 1 1 1 : Matrix Type: To	tal/NA 19690 RPD Limit 20 20 Spike tal/NA

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012 Job ID: 880-11351-1 SDG: 15307

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

1-Chlorooctane 69 S1- 70 - 130	Matrix: Solid Analysis Batch: 19863								Prep	ype: To Batch:	19690	į,	
Gasoline Range Organics       <50.0       U       998       1159       mg/Kg       115       70 - 130       0       20         (GRO)-C6-C10       Diesel Range Organics (Over       110       998       943.7       mg/Kg       84       70 - 130       9       20         C10-C28)       MSD       MSD       MSD         Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       69       S1-       70 - 130       70 - 130         o-Terphenyl       69       S1-       70 - 130       70 - 130			-	-									
(GRO)-C6-C10         Diesel Range Organics (Over         110         998         943.7         mg/Kg         84         70 - 130         9         20           C10-C28)         MSD         MSD         Surrogate         %Recovery         Qualifier         Limits           1-Chlorooctane         69         S1-         70 - 130         70 - 130           o-Terphenyl         69         S1-         70 - 130         70 - 130	-					Qualifier		D					
C10-C28) MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 69 S1- 70-130 o-Terphenyl 69 S1- 70-130		<50.0	U	998	1159		mg/Kg		115	70 - 130	0	20	
MSD MSD Surrogate <u>%Recovery</u> <u>Qualifier</u> <u>Limits</u> 1-Chlorooctane 69 S1- 70-130 o-Terphenyl 69 S1- 70-130	Diesel Range Organics (Over	110		998	943.7		mg/Kg		84	70 - 130	9	20	
Surrogate%RecoveryQualifierLimits1-Chlorooctane69\$1-70 - 130o-Terphenyl69\$1-70 - 130	C10-C28)												
1-Chlorooctane       69       \$1-       70 - 130         o-Terphenyl       69       \$1-       70 - 130		MSD	MSD										
o-Terphenyl 69 S1- 70-130	Surrogate	%Recovery	Qualifier	Limits									-
o-lerphenyl 69 S1- 70-130	1-Chlorooctane	69	S1-	70 - 130									
	p-Terphenyl	69	S1-	70 - 130									

# **QC** Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

Job ID: 880-11351-1

SDG: 15307

# **GC VOA**

### Prep Batch: 19723

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
MB 880-19723/5-A	Method Blank	Total/NA	Solid	5035		5
Analysis Batch: 20184						C
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
880-11351-1	Bottom Hole 1	Total/NA	Solid	8021B	20192	
880-11351-2	North Sidewall	Total/NA	Solid	8021B	20192	
880-11351-3	East Sidewall	Total/NA	Solid	8021B	20192	_
880-11351-4	South Sidewall	Total/NA	Solid	8021B	20192	8
880-11351-5	West Sidewall	Total/NA	Solid	8021B	20192	
MB 880-19723/5-A	Method Blank	Total/NA	Solid	8021B	19723	9
MB 880-20192/5-A	Method Blank	Total/NA	Solid	8021B	20192	
LCS 880-20192/1-A	Lab Control Sample	Total/NA	Solid	8021B	20192	
LCSD 880-20192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20192	
880-11351-1 MS	Bottom Hole 1	Total/NA	Solid	8021B	20192	
880-11351-1 MSD	Bottom Hole 1	Total/NA	Solid	8021B	20192	
Prep Batch: 20192						
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	4
880-11351-1	Bottom Hole 1	Total/NA	Solid	5035		
880-11351-2	North Sidewall	Total/NA	Solid	5035		

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11351-1	Bottom Hole 1	Total/NA	Solid	5035	
880-11351-2	North Sidewall	Total/NA	Solid	5035	
880-11351-3	East Sidewall	Total/NA	Solid	5035	
880-11351-4	South Sidewall	Total/NA	Solid	5035	
880-11351-5	West Sidewall	Total/NA	Solid	5035	
MB 880-20192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11351-1 MS	Bottom Hole 1	Total/NA	Solid	5035	
880-11351-1 MSD	Bottom Hole 1	Total/NA	Solid	5035	

#### Analysis Batch: 20322

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-11351-1	Bottom Hole 1	Total/NA	Solid	Total BTEX	
880-11351-2	North Sidewall	Total/NA	Solid	Total BTEX	
880-11351-3	East Sidewall	Total/NA	Solid	Total BTEX	
880-11351-4	South Sidewall	Total/NA	Solid	Total BTEX	
880-11351-5	West Sidewall	Total/NA	Solid	Total BTEX	

### GC Semi VOA

### Prep Batch: 19690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11351-1	Bottom Hole 1	Total/NA	Solid	8015NM Prep	
880-11351-2	North Sidewall	Total/NA	Solid	8015NM Prep	
880-11351-3	East Sidewall	Total/NA	Solid	8015NM Prep	
880-11351-4	South Sidewall	Total/NA	Solid	8015NM Prep	
880-11351-5	West Sidewall	Total/NA	Solid	8015NM Prep	
MB 880-19690/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19690/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19690/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11400-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11400-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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# **QC** Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

# GC Semi VOA

# Analysis Batch: 19863

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-11351-1	Bottom Hole 1	Total/NA	Solid	8015B NM	19690
880-11351-2	North Sidewall	Total/NA	Solid	8015B NM	19690
880-11351-3	East Sidewall	Total/NA	Solid	8015B NM	19690
880-11351-4	South Sidewall	Total/NA	Solid	8015B NM	19690
880-11351-5	West Sidewall	Total/NA	Solid	8015B NM	19690
MB 880-19690/1-A	Method Blank	Total/NA	Solid	8015B NM	19690
LCS 880-19690/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19690
LCSD 880-19690/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19690
880-11400-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	19690
880-11400-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	19690

### Analysis Batch: 19986

LC3 000-19090/2-A	Lab Control Sample	IUlai/INA	30110		19090	
LCSD 880-19690/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19690	8
880-11400-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	19690	
880-11400-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	19690	9
Analysis Batch: 1998	6					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
880-11351-1	Bottom Hole 1	Total/NA	Solid	8015 NM		
880-11351-2	North Sidewall	Total/NA	Solid	8015 NM		
880-11351-3	East Sidewall	Total/NA	Solid	8015 NM		
880-11351-4	South Sidewall	Total/NA	Solid	8015 NM		
880-11351-5	West Sidewall	Total/NA	Solid	8015 NM		
						13

Job ID: 880-11351-1 SDG: 15307

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**Released to Imaging: 5/31/2022 11:01:37 AM** 

### **Client Sample ID: Bottom Hole 1** Date Collected: 02/15/22 11:00 Date Received: 02/16/22 13:00

 0/22 10.00	
Batch	Batch
Baten	Butch

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20192	02/24/22 09:39	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20184	02/24/22 23:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20322	02/25/22 13:43	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19986	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19690	02/17/22 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/19/22 15:41	AJ	XEN MID

### **Client Sample ID: North Sidewall** Date Collected: 02/15/22 11:02

# Date Received: 02/16/22 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.00 g	5 mL	20192	02/24/22 09:39	KL	XEN MID	
Total/NA	Analysis	8021B		1	5 mL	5 mL	20184	02/24/22 23:36	KL	XEN MID	
Total/NA	Analysis	Total BTEX		1			20322	02/25/22 13:43	AJ	XEN MID	
Total/NA	Analysis	8015 NM		1			19986	02/21/22 19:16	AJ	XEN MID	- 5
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19690	02/17/22 11:56	DM	XEN MID	
Total/NA	Analysis	8015B NM		1			19863	02/19/22 16:02	AJ	XEN MID	

### **Client Sample ID: East Sidewall**

# Date Collected: 02/15/22 11:04

Date	Received:	02/16/22 13:00	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20192	02/24/22 09:39	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20184	02/24/22 23:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20322	02/25/22 13:43	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19986	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19690	02/17/22 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/19/22 16:23	AJ	XEN MID

# **Client Sample ID: South Sidewall**

Date Collected: 02/15/22 11:06 Date Received: 02/16/22 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20192	02/24/22 09:39	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20184	02/25/22 00:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20322	02/25/22 13:43	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19986	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19690	02/17/22 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/19/22 16:44	AJ	XEN MID

# Lab Sample ID: 880-11351-4

Matrix: Solid

Job ID: 880-11351-1 SDG: 15307

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# Lab Sample ID: 880-11351-1

Matrix: Solid

# Lab Sample ID: 880-11351-2

Matrix: Solid

# Matrix: Solid

Lab Sample ID: 880-11351-3

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Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

### Client Sample ID: West Sidewall Date Collected: 02/15/22 11:08 Date Received: 02/16/22 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20192	02/24/22 09:39	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20184	02/25/22 00:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20322	02/25/22 13:43	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19986	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep		4	10.00 g	10 mL	19690	02/17/22 11:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/19/22 17:05	AJ	XEN MID

#### Laboratory References:

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

Job ID: 880-11351-1 SDG: 15307

# Lab Sample ID: 880-11351-5

Matrix: Solid

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au				=	
Client: Etech Environme Project/Site: Basin Fede	-	S		Job ID: 880-11351-1 SDG: 15307	
Laboratory: Eurofin Unless otherwise noted, all an		re covered under each acc	reditation/certification below.		
Authority		ogram	Identification Number	Expiration Date	
Texas The following analytes a		ELAP It the laboratory is not certil	T104704400-21-22 ied by the governing authority. This list ma	06-30-22 ay include analytes for which	5
the agency does not offe Analysis Method	er certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					11
					13
					14

Eurofins Midland

### Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012

Job ID: 880-11351-1 SDG: 15307

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
Protocol Refe	erences:		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	dition, November 1986 And Its Updates.	
Laboratory R		-	
XEN MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	0	

#### Protocol References:

#### Laboratory References:

Eurofins Midland

Page 42 of 52

# **Sample Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Basin Federal #012 Job ID: 880-11351-1 SDG: 15307

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	5.4	
		Watrix	Collected	Received	Depth	
880-11351-1	Bottom Hole 1	Solid	02/15/22 11:00	02/16/22 13:00	18"	
880-11351-2	North Sidewall	Solid	02/15/22 11:02	02/16/22 13:00	12"	
880-11351-3	East Sidewall	Solid	02/15/22 11:04	02/16/22 13:00	12"	
880-11351-4	South Sidewall	Solid	02/15/22 11:06	02/16/22 13:00	12"	
880-11351-5	West Sidewall	Solid	02/15/22 11:08	02/16/22 13:00	12"	

Page 43 of 52

Midland, TX (4 Hobbs, NM (575-392-7550)	<b>Chain of Custody</b> 281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 ) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-67	
Company Name:EtechEnvironmentalCompanyAddress:13000WCR100AddressCity, State ZIP:Ddessa, Tx79765City,	Iress:	Work Order Comments         Program: UST/PST       PRP       Brownfields       RC       Superfund
Project Name:Baish Federa#FOIRTurn ArdProject Number:15307RoutineP.O. Number:15307Rush:Sampler's Name:Blake EstepDue Date:SAMPLE RECEIPTTemp Blank:Yes NoWet Ice:Temperature (°C):Yes NoYes NoWet Ice:Received Intact:Yes NoThermometer IDCooler Custody Seals:Yes NoTotal Containers:Sample IdentificationMatrixDate SampledTime SampledBottornHole52-15-22NorthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthSidewall52-15-22SouthS	ANALYSIS REQUES	T     Work Order Notes       TAT starts the day received by the lab, if received by 4:30pm     Sample Comments       Sample Comments     VO2
	sibility for any losses or expenses incurred by the client if such losses are due to c	Se Ag TI U 1631 / 245.1 / 7470 / 7471 : Hg standard terms and conditions ircumstances beyond the control less previously negotiated.

Job Number: 880-11351-1 SDG Number: 15307

List Source: Eurofins Midland

# Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 11351 List Number: 1 Creator: Rodriguez, Leticia

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

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

14

Received by OCD: 4/4/2022 2017 10/12/2009 03:37 08/12/2009 16:24 5753932476 BBC INTERNA PAGE 02/03



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 86240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (575) 397-0397

Receiving Date: 08/12/09 Reporting Date: 08/12/09 Project Owner: CHESAPEAKE Project Name: BAISH FEDERAL #12 Project Location: LOCO HILLS, NM Analysis Date: 08/12/09 Sampling Date: 08/05/09, 08/06/09 & 08/10/09 Sample Type: SOIL Sample Condition: INTACT @ 15°C Sample Received By: ML Analyzed By: HM

LAB NUMB	EI SAMPLE ID	(mg/kg
H17973-1	SP1 1.5'	48
H17973-2	SP2 1.5'	16
H17973-3	SP3 1.5'	16
H17973-4	SP4 1'	48
H17973-5	SP5 5'	48
H17973-6	SP6 6"	128
H17963-7	SP7 1'	16
Quality Con	trol	500
True Value	QC	500
% Recovery		100
<b>Relative Pe</b>	rcent Difference	< 0,1

METHOD: Standard Methods 4500-Cl'B Note: Analyses performed on 1:4 w:v aqueous extracts.

08/17/119

#### H17973 BBC

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 otom for analyses. All claims, including these for negligence and any other cause whatsover shall be deemed waived unless minds in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no over tability cardinal be liable for including in consequential damages, including, without limitation, business interruptions, loss of use, or (ose of profits incurred by otent, its subsidiarities, including, without limitation, business interruptions, loss of use, or (ose of profits incurred by otent, its subsidiarities, including, without limitation, business interruptions, loss of use, or (ose of profits incurred by otent, its subsidiarities, constructions). For a state 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. BBC INTERNATIONAL PAGE

5053970397 CARDINAL LABS

RECETVED 08/12/2009 03:37 5753932476

16:24

08/12/2009

# ARDINAL LABORATORIES 101 East Mariand, Hobbs, NM 88240 (505) 393-2326 EAX (505) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS RECORDEST of 52

Company Name	BBC International, Inc.		BILL TO		ANALYSIS REQU	EST
	r: Cliff Brunson		P.O. #:			
Address: P.O.	Box 805		Company:			
city: Hobbs	State: NM	zip: 88241	Attn:			
Phone #- 575-	397-6388 Fax #: 57	/5-397-0397	Address: COME			
Project #:	Project Own	ur. Meszaezte	City:			
Project Name:	Project Own Bzish Federal #	12	State: Zip:			
Project Location	n: Loro Hills		Phone #:			
Sampler Name:			Fax #:			
FOR LASINGE ONLY		MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	Cicinal or (c)omp # containers eroundwater vwstewater 5 sou	ACIDIBASE: ACIDIBASE: OTHER: OTHER:	Chlor		
H17973-1	SP1 1.5'	GI	Nr 85.09 1001			
-2	SP2 1.5	GIV	8.5.09,000			
-3	SP3 1.5'	G 1 /	V 85.09 1012			
-4	3P4 1'	GILV	V, 8.5.09 103			
4	3P5 51	GI	N/ 8.6.09 1441		_   _	·+ + ++
4-	SP6 6"	GUV	Vy 8.10.09 1500			
	<u>BP7 1'</u>	GIV	V 81207 1502			
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enter i no eveni etal C	ing Brose for negligence and any other carries whetebever shell writher be fields for incidents' or consequentle damages. How ing out of an related to the performence of extrictes be:####################################	ting without instation, internets intermylians	s, loss of use, or loss of profile incorrect by client, its sub-	station.		
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	cannot accept verbal changes. Plea #	26				
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Appendix D – Release Notification and Corrective Action (Form C-141)

Berling, much D., Rada, NM 8220     State of New Mexico     State of New	Received by O	<b>)CD:</b> 4/4/2	2022 9:37:5	1 AM									Page 49 of 52
Description       Base Name Action M 87410       OHI Conservation Division       Submit 2 Copies to agenorate in 220 Submit 2 Copies Submit 2 Copies to	Id25 N. French Dr., Hobbs, NM 88240     State of									Rev			
Description       1220 St. Francis Dr.       with Role 116 on back Side of Bern         Starts Fe, NM 87505       Starts Fe, NM 87505       Side of Bern         Name of Company       CHESAPHAKE OPERATING, NC.       Ontact BRADLEY BLEVINS       Final Report         Address       P.O. BOX 190 HOBES, NM 88241       Telephone No. 575-391-1462       Final Report         Address       P.O. BOX 190 HOBES, NM 88241       Telephone No. 575-391-1462       Final Report         Surface Owner       Imineral Owner       Lease No.       East Notification         C       9       188       310       Montilocani Line       Feality Name         C       9       188       310       Montilocani Line       Feal West Line       County         C       9       188       310       Montilocani Line       Feal West Line       County         C       9       188       310       No Investige Report       Nominicani Line       Feal West Line       County         C       9       188       310       Provide Report Report       EDDY       EDDY         Latitude       Longitude       Interphratic       Nominicani Report Report       County       EDDY         Yee of Release Produced water       No       No Required       Montilocani Cou	District III	-		I	Oil C	Conser	vation Div	vision			Submit 2 C	opies to	o appropriate
Nature PC, INM 67303         Release Notification and Corrective Action         OPERATION       Initial Report       Spinal Report         Name of Company CHESAPEAKE OPERATING, INC.       Contact: BRADLEY ELEVINS         Address P. O. BOX 109 HOBBS. NN 83824       Telephone No. 575.391.1462         Facility Name Baish Federal No. 12       Facility Type Of Well         Sufficient County       Lease No.         LOCATION OF RELEASE API #30-015.31376         Unit Letter Section Township Range Pect from the North/South Line Feet from the Fast/West Line County         COUNT COUNT OF RELEASE         Type of Release Produced water       NATURE OF RELEASE         Type of Release Produced water       NATURE OF RELEASE         Type of Release Produced water       NATURE OF RELEASE         Type of Release Produced water       Volume Recovered 25 BBLS         Source of Release Flow line ruptured       OPTIME OF OPTIME       Date and Hour of Octurnee         Source of Release Produced water       Volume of Release 40 BBLS       Volume Recovered 25 BBLS         Source of Release Produced mater	District IV				1220	South	n St. Franc	sis Dr.			District C wit	)ffice is h Rule	116 on back
OPERATOR       Initial Report         Name of Company       CHESAPEAKE OPERATING, INC.       Contact       READLEY ILEVINS         Address       P.O. DOX 190 HOBBS, NM 85241       Telephone No. 275,321-142         Facility Name       Bails Federal No. 12       Facility Type       Oil Well         Starface Owner       Imenal Owner       Icase No.         LOCATION OF RELEASE API #30-015-31376         Uit Letter       Section       Township       Range       Feet from the       North/South Line       County       EDDY         LOCATION OF RELEASE API #30-015-31376         Uit Letter       Longtude         NATURE OF RELEASE         Type of Release Produced water       NORTH       16500 WEST       EDDY         Latitude       Longtude         NATURE OF RELEASE         Type of Release Produced water       Volume of Release 40 BILS       Volume Recovered 25 BBLS         Source of Release       Flow line ruptured       07/16/09 930 AM       07/16/09 1050 AM       0         Was Immediate Notice Givear?       If YES, To Whom?       If YES, To Whom?       Mike Bratcher       Date and Houp of 7/17/09 9300 AM       Dif an ad	1220 S. SL Fran	cis Dr., Santa	a Fe, NM 87505			·							side of form
Name of Company       CITESAPLAKE OPERATING, INC.       Contact       EXAPTES       Contact       Contact       EXAPTES       Contact       Contact </td <td></td> <td></td> <td></td> <td>Rele</td> <td>ease Notific</td> <td>atio</td> <td>n and Co</td> <td>orrective A</td> <td>ction</td> <td></td> <td></td> <td></td> <td></td>				Rele	ease Notific	atio	n and Co	orrective A	ction				
Address P. O. BOX 109 HOBBS, NM 83241       Telephone No. 575-391-1462         Fecility Name Baish Federal No. 12       Facility Type Oil Weil         Surface Owner       Immeral Owner         LOC ATION OF RELEASE API #30-015-31376         Unit Letter       Section         0       188         31E       990         NORTH       1650         Unit Letter       Leage No.         C       9       188         31E       990       NORTH       1650         Variance Or Release Produced water       Longitude         Source of Release Produced water       Volume of Release 40 BBLS       Volume Recovered 25 BBLS         Source of Release Frow line ruptured       Date and Hour of Outrame Date and Hour of Discovery       Mitte Bracher         By Whom?       Cliff Brunson-BBC International, Inc.       Date and Hour of 7/17/09 9:00 AM       Wite Sin Stacker         Was a Watercourse was Impacted, Describe Fully.*       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       Stack of Problem and Remedial Action Taken.*         25 BBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         Describe Cause of Problem and Remedial Action Taken.* <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>厂</u></td><td>Initia</td><td>l Report</td><td><math>\boxtimes</math></td><td>Final Report</td></td<>									<u>厂</u>	Initia	l Report	$\boxtimes$	Final Report
Facility Name       Baish Federal No. 12       Facility Type       Oil Well         Surface Owner       Itease No.       Itease No.         Surface Owner       Itease No.       Itease No.         Unit Letter       Section       Township       Range       Feer from the       NortNSouth Line       Feer from the EastWest Line       County         C       9       18S       31E       990       NORTH       1650       WEST       EDDY         Latitude       Longitude         NATURE OF RELEASE         Type of Release Produced water       Volume of Release 40 BBLS       Volume Recovered 25 BBLS         Source of Release Flow line ruptured       071609 9303 AM.       071609 16:00 AM.       Date and Hour of Discovery         Was Immediate Notice Given?       Yes       No       No Required       Mike Bratcher       Mike Bratcher         By Whon?       Cliff Brunson-BBC International, Inc.       Date and Hour 07/17/09       9:00 AM.       Mike Bratcher         Was a Watercourse was Impacted, Describe Fully.*       If WES, Volume Impacting the Watercourse.       If Watercourse was Impacted, Describe Fully.*         Describe Cause of Problem and Remodial Action Taken.*       A plastic flow line ruptured releasing produced water. Vacuum trucks were used to recover free fluid. A backhoe was used to scrape wet soil t													
LOCATION OF RELEASE API #30-015-31376         Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       East/West Line       County         C       9       188       31E       990       NORTH       1650       WEST       EDDY         Latitude       Longitude         NORTH       1650       WEST       EDDY         Latitude       Longitude         NATURE OF RELEASE         Type of Release Produced water       NOTION OF RELEASE         Source of Release Produced water       Volume OR Release 40 BBLS       Volume Recovered 25 BBLS         Source of Release       Flow Ime ruptured       O71609 9.30 AM.       Date and Hour of Discovery       If YES, To Whom?         Wiss a Watercourse Resubod?       Yes       No       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Putly.*        If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       25 BBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.       If YES,									02				
Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       East/West Line       County         C       9       18S       312       990       NORTH       1650       WEST       EDDY         Latitude       Longitude         VATURE OF RELEASE         Type of Release       Flow line ruptured       07/16/09       9.30 A.M.       07/16/09       0.30 A.M.         Source of Release       Flow line ruptured       07/16/09       9.30 A.M.       07/16/09       0.30 A.M.         Source of Release       Flow line ruptured       0.01 Not Required       Mate and Hour of Occurrence       Date and Hour of Discovery       If YES, To Whom?         Wis a Watercourse Reached?       Yes       No       No       Mate and Hour of Dircoverse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       25 BELS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         Describe Area Affected and Cleanup Action Taken.*       25 BELS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD rules and regulations all operators are required to roport and or flic certains headth or the environment. The acceptance of a C-141 report by the NMOCD marked as "final Report does nor	Surface Ow	ner			Mineral C	wner				Lease N	lo.		
Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       East/West Line       County         C       9       18S       312       990       NORTH       1650       WEST       EDDY         Latitude       Longitude         VATURE OF RELEASE         Type of Release       Flow line ruptured       07/16/09       9.30 A.M.       07/16/09       0.30 A.M.         Source of Release       Flow line ruptured       07/16/09       9.30 A.M.       07/16/09       0.30 A.M.         Source of Release       Flow line ruptured       0.01 Not Required       Mate and Hour of Occurrence       Date and Hour of Discovery       If YES, To Whom?         Wis a Watercourse Reached?       Yes       No       No       Mate and Hour of Dircoverse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       25 BELS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         Describe Area Affected and Cleanup Action Taken.*       25 BELS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD rules and regulations all operators are required to roport and or flic certains headth or the environment. The acceptance of a C-141 report by the NMOCD marked as "final Report does nor				LO	CATION OF	REL	EASE A	PI #30-015-3	81376				
Latitude       Longitude         NATURE OF RELEASE         Type of Release Produced water       Volume of Release 40 BBLS       Volume Recovered 25 BBLS         Source of Release       Flow line ruptured       07/16/09 9:30 A.M.       Date and Hour of Discovery         Was Immediate Notice Given?       Yes       No       Not Required       Mike Bratcher         By Moon?       Cliff Brunson-BBC International, Inc.       Date and Hour of Olocurrence       Date and Hour of Discovery         Was a Watercourse Reached?       Yes       No       Not Required       Mike Bratcher         By Moon?       Cliff Brunson-BBC International, Inc.       Date and Hour of Discovery       Mike Bratcher         By Moon?       Yes       No       Not Required       Mike Bratcher         Bus a Watercourse was Impacted, Describe Fully.*       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       Z       Sub a dia the cleanup.       Z         Z S BBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.       Sub a dia the information given above is the and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may en	Unit Letter	Section	Township	-						st Line	County		
NATURE OF RELEASE         Type of Release       Produced water       Volume of Release       40 BBLS       Volume Recovered       25 BBLS         Source of Release       Flow line ruptured       07/16/09       9:30 A.M.       07/16/09       10:00 A.M.         Was Immediate Notice Given?       If Yes, I to Mom?       If YES, To Whom?       If YES, To Whom?         Was Immediate Notice Given?       If Yes I to I to Courrence       Date and Hour of Discovery       If YES, Volume Impacting the Watercourse.         By Whom?       Cliff Brunson-BBC International, Inc.       Date and Hour of 07/17/09       9:00 AM         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       A plastic flow line ruptured releasing produced water. Vacuum trucks were used to recover free fluid. A backhoe was used to scrape wet soil to aid in the cleanup.         Describe Area Affected and Cleanup Action Taken.*       2       SBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health (nor the envinomene of a C-141 report by the NMOC	С	9	18S	31E	990	NOR	TH	1650	WEST		EDDY		
NATURE OF RELEASE         Type of Release       Produced water       Volume of Release       40 BBLS       Volume Recovered       25 BBLS         Source of Release       Flow line ruptured       07/16/09       9:30 A.M.       07/16/09       10:00 A.M.         Was Immediate Notice Given?       If Yes, I to Mom?       If YES, To Whom?       If YES, To Whom?         Was Immediate Notice Given?       If Yes I to I to Courrence       Date and Hour of Discovery       If YES, Volume Impacting the Watercourse.         By Whom?       Cliff Brunson-BBC International, Inc.       Date and Hour of 07/17/09       9:00 AM         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       A plastic flow line ruptured releasing produced water. Vacuum trucks were used to recover free fluid. A backhoe was used to scrape wet soil to aid in the cleanup.         Describe Area Affected and Cleanup Action Taken.*       2       SBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health (nor the envinomene of a C-141 report by the NMOC			· • •	La	titude		Longitud	le					
Type of Release       Produced water       Volume of Release       40 BBLS       Volume Recovered 25 BBLS         Source of Release       Flow line ruptured       07/16/09 9:30 A.M.       07/16/09 10:00 A.M.         Was Immediate Notice Given?       Date and Hour of Occurrence       Date and Hour of Occurrence       If YES, To Whom?         By Whom?       Cliff Brunson-BBC International, Inc.       Date and Hour of 7/17/09       9:00 AM       If YES, Volume Impacting the Watercourse.         By Whom?       Yes       No       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       A plastic flow line ruptured releasing produced water. Vacuum trucks were used to recover free fluid. A backhoe was used to scrape wet soil to aid in the cleanup.         Describe Area Affected and Cleanup Action Taken.*       25 BBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD miles and regulations all operators are required to report and/or file certain release not reliver that operator of responsibility for complexity and responsibility for complexity fuesting wat						TIRF	_ •						
Date and Hour of Occurrence       Date and Hour of Discovery         Was Immediate Notice Given?       If YES, To Whom?         Mike Bratcher       Date and Hour of Occurrence       Date and Hour of Discovery         By Whon?       Cliff Brunson-BBC International, Inc.       Date and Hour 07/17/09 9:00 AM         Was a Watercourse Reached?       If YES, To Whom?       Mike Bratcher         By Whon?       Yes       No       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       A plastic flow line ruptured releasing produced water. Vacuum trucks were used to recover free fluid. A backhoe was used to scrape wet soil to aid in the cleanup.         Describe Area Affected and Cleanup Action Taken.*       25 BBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and remediat and remediat and remediat action and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of responsibility for compliance water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with my other re	Type of Relea					URE			BLS   V	olume R	ecovered 2	5 BBL	.S
Was Immediate Notice Given?       Yes       No       Not Required       If YES, To Whom? Mike Bratcher         By Whom?       Cliff Brunson-BBC International, Inc.       Date and Hour 07/17/09 9:00 AM         Was a Watercourse Reached?       Yes       Date and Hour 07/17/09 9:00 AM         If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       A plastic flow line ruptured releasing produced water. Vacuum trucks were used to recover free fluid. A backhoe was used to scrape wet soil to aid in the cleanup.         Describe Area Affected and Cleanup Action Taken.*       25 BBLS of fluid was recovered. Soil removal was done and backfill approval was granted by M. Bratcher of the NMOCD on August 13, 2009.         It hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Inal Report" does not relieve the operator of liability should their operators have filed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. The acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	Source of Re	lease Flo	ow line rupti	ıred								01/0171	
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Signature       Signature       Approved by District Supervisor:         Printed Name:       BRADLEY BLEVINS       Approved by District Supervisor:         Title:       EHS Specialist       Approval Date:         E-mail Address:       bradley.blevins@chk.com       Conditions of Approval:	regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other												
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Printed Name:     BRADLEY BLEVINS       Title:     EHS Specialist       E-mail Address:     bradley.blevins@chk.com   Conditions of Approval:       Conditions of Approval:	Signature	Stall	ly Z	2									
E-mail Address: bradley.blevins@chk.com Conditions of Approval: Attached	Printed Name: BRADLEY BLEVINS					Approved by	District Supervise	or:					
E-mail Address: bradley.blevins@chk.com Conditions of Approval: Attached	Title: EHS	Specialist	Ţ			T.	Approval Dat	e:	Exr	piration T	Date:		
				chk.com									
	Date: 6/	20/12		Phone:	575-391-1462							<u>ш</u>	

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\* Attach Additional Sheets If Necessary

Received by OCD: 4/4/2022 9:37:51 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page SU 0J	34
Incident ID		
District RP		
Facility ID		
Application ID		

# Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

Received by OCD: 4/4/202	22 9:37:51 AM State of New Mexico			Page 51 of 52
			Incident ID	
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators arr public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email:	Formation given above is true and complete to the e required to report and/or file certain release not nment. The acceptance of a C-141 report by the 0 igate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of Additional content of the content of t	ifications and perform c OCD does not relieve th eat to groundwater, surf f responsibility for comp	orrective actions for rele e operator of liability sh ace water, human health liance with any other fee	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

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

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

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

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

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

CONDITIONS

Operator:	OGRID:	
CHEVRON U S A INC	4323	
6301 Deauville Blvd	Action Number:	
Midland, TX 79706	95548	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	
CONDITIONS		

Created By		Condition Date
bbillings	None	5/31/2022

CONDITIONS

Action 95548