TETRA TECH

October 17, 2024

Ms. Victoria Venegas
Environmental Specialist
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

VIA ELECTRONIC SUBMITTAL

Re: Temporary Pit Closure Report
Javelina Unit 601 (601H, 602H, 603H, 501H)
BLM Lease No. USA NMNM 063757
Section 9 of T24S, R31E
Eddy County, New Mexico
Facility ID: fJMB2222150892

Dear Ms. Venegas,

Tetra Tech, Inc. (Tetra Tech) is pleased to provide this Temporary Pit Closure Report on behalf of Chevron Mid Continent Business Unit (MCBU) for the above-referenced temporary pit in accordance with the approved C-144 closure plan and conditions of approval, dated August 9, 2022. Temporary pit closure activities were completed on May 9, 2024. The site will be monitored in 2024 and 2025 for vegetative growth progress. The Division will be notified upon the establishment of appropriate vegetative cover that blends with the surrounding undisturbed area. This submittal includes the following information listed in Part 21 of the C-144 Form (Closure Report Attachment Checklist):

Closure Requirement	Attachment
Proof of Liner Notification	Attachment A
Proof of Deed Notice (on-site closure on private land only)	Not Applicable; *BLM Land*
C-105 form (for on-site closures and temporary pits), Plot Plan	Attachment B
Confirmation Sampling Analytical Results	Attachment C
Waste Material Sampling Analytical Results (required for on-site closure)	Attachment A; *submitted with closure notice*
Disposal Facility Name and Permit Number	Not Applicable*; on-site closure*
Soil Backfilling and Cover Installation	Attachment C
Re-vegetation Application Rates and Seeding Technique	Attachment C
Site Reclamation (photo documentation)	Attachment C
Updated C-144 form	Attachment D

Tetra Tech
901 West Wall Street, Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

TETRA TECH

If you have any questions or comments regarding this submittal, please contact Kim Beebe at kimbeebe@chevron.com.

Respectfully submitted,
TETRA TECH

John Faught, GIT
Project Manager
Tetra Tech, Inc.

Clair Gonzales, PG
Operations Manager
Tetra Tech, Inc.

Cc: James Amos, Bureau of Land Management, *via electronic submittal*

TETRA TECH

Attachment A

Proof of Liner Notification

From: Venegas, Victoria, EMNRD
To: Beebe, Kim
Subject: [**EXTERNAL**] RE: [EXTERNAL] Javelina Unit 601 (601H, 602H, 603H, 501H, 502H) FJMB2222150892
Date: Friday, April 5, 2024 4:10:22 PM
Attachments: image002.jpg
image003.png

Be aware this external email contains an attachment and/or link.
Ensure the email and contents are expected. If there are concerns, please submit suspicious messages to the Cyber Intelligence Center using the Report Phishing button.

Received, thank you.

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov
https://www.emnrd.nm.gov/ocd/

From: Beebe, Kim <kimbeebe@chevron.com>
Sent: Friday, April 5, 2024 2:59 PM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@emnrd.nm.gov>
Subject: [EXTERNAL] Javelina Unit 601 (601H, 602H, 603H, 501H, 502H) FJMB2222150892

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Victoria, I would like to submit notification in regards to this permit condition for Javelina Unit 601 (601H, 602H, 603H, 501H, 502H) FJMB2222150892.

Kim Beebe
Lead Environmental Specialist – Waste Advisor

Chevron North America Exploration and Production
Mid-Continent Business Unit
6301 Deauville Blvd
Midland, TX 79706
Tel 432 687-7480
Mobile 310 606-9561

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: John Faught
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Generated 11/17/2023 12:59:21 PM

JOB DESCRIPTION

SND Pad 601
Eddy County, NM

JOB NUMBER

880-35589-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
11/17/2023 12:59:21 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Laboratory Job ID: 880-35589-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-35589-1
Project/Site: SND Pad 601 SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Job ID: 880-35589-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35589-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/9/2023 9:57 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SND Pad 601 (880-35589-1).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SND Pad 601 (880-35589-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-66698 and analytical batch 880-66806 recovered outside control limits for the following analytes: Benzene.

Method 8021B: The method blank for preparation batch 880-66698 and analytical batch 880-66806 contained o-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-66717 and analytical batch 880-66782 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Client Sample ID: SND Pad 601

Date Collected: 11/08/23 13:30
Date Received: 11/09/23 09:57

Lab Sample ID: 880-35589-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10.0	U	10.0		mg/Kg		11/14/23 11:24	11/17/23 03:49	5000
Toluene	<10.0	U	10.0		mg/Kg		11/14/23 11:24	11/17/23 03:49	5000
Ethylbenzene	**0.152**		0.00198		mg/Kg		11/10/23 10:24	11/14/23 04:54	1
m-Xylene & p-Xylene	**0.491**		0.00396		mg/Kg		11/10/23 10:24	11/14/23 04:54	1
o-Xylene	**0.161**		0.00198		mg/Kg		11/10/23 10:24	11/14/23 04:54	1
Xylenes, Total	**0.652**		0.00396		mg/Kg		11/10/23 10:24	11/14/23 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*11/10/23 10:24*	*11/14/23 04:54*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/10/23 10:24*	*11/14/23 04:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.804**		0.00396		mg/Kg			11/17/23 03:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**306**		49.9		mg/Kg			11/12/23 22:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**73.7**		49.9		mg/Kg		11/10/23 13:21	11/12/23 22:14	1
Diesel Range Organics (Over C10-C28)	**232**		49.9		mg/Kg		11/10/23 13:21	11/12/23 22:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/23 13:21	11/12/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*11/10/23 13:21*	*11/12/23 22:14*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/10/23 13:21*	*11/12/23 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112000**		501		mg/Kg			11/13/23 14:49	100

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-35589-1	SND Pad 601	198 S1+	114
890-5575-A-1-D MS	Matrix Spike	127	97
890-5575-A-1-E MSD	Matrix Spike Duplicate	120	83
890-5605-A-2-D MS	Matrix Spike	96	114
890-5605-A-2-E MSD	Matrix Spike Duplicate	91	109
LCS 880-66698/1-A	Lab Control Sample	123	108
LCS 880-66979/1-A	Lab Control Sample	101	109
LCSD 880-66698/2-A	Lab Control Sample Dup	120	92
LCSD 880-66979/2-A	Lab Control Sample Dup	94	103
MB 880-66698/5-A	Method Blank	73	87
MB 880-66979/5-A	Method Blank	104	132 S1+
MB 880-67061/5-A	Method Blank	117	154 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-35589-1	SND Pad 601	81	85
890-5575-A-10-D MS	Matrix Spike	80	73
890-5575-A-10-E MSD	Matrix Spike Duplicate	78	76
LCS 880-66717/2-A	Lab Control Sample	104	120
LCSD 880-66717/3-A	Lab Control Sample Dup	99	104
MB 880-66717/1-A	Method Blank	81	90

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66698/5-A
Matrix: Solid
Analysis Batch: 66806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 10:24	11/13/23 19:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 10:24	11/13/23 19:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 10:24	11/13/23 19:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/23 10:24	11/13/23 19:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 10:24	11/13/23 19:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 10:24	11/13/23 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*11/10/23 10:24*	*11/13/23 19:40*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*11/10/23 10:24*	*11/13/23 19:40*	*1*

Lab Sample ID: LCS 880-66698/1-A
Matrix: Solid
Analysis Batch: 66806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1232		mg/Kg		123	70 - 130
Toluene	0.100	0.1228		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1223		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	0.200	0.2380		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1225		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-66698/2-A
Matrix: Solid
Analysis Batch: 66806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08589	*1	mg/Kg		86	70 - 130	36	35
Toluene	0.100	0.1058		mg/Kg		106	70 - 130	15	35
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130	20	35
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-5575-A-1-D MS
Matrix: Solid
Analysis Batch: 66806

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *1	0.0996	0.08424		mg/Kg		85	70 - 130
Toluene	<0.00202	U	0.0996	0.09816		mg/Kg		99	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-5575-A-1-D MS
Matrix: Solid
Analysis Batch: 66806

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0996	0.06990		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1645		mg/Kg		83	70 - 130
o-Xylene	<0.00202	U	0.0996	0.08029		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-5575-A-1-E MSD
Matrix: Solid
Analysis Batch: 66806

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *1	0.0990	0.07846		mg/Kg		79	70 - 130	7	35
Toluene	<0.00202	U	0.0990	0.07819		mg/Kg		79	70 - 130	23	35
Ethylbenzene	<0.00202	U	0.0990	0.07284		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1381		mg/Kg		70	70 - 130	17	35
o-Xylene	<0.00202	U	0.0990	0.07118		mg/Kg		72	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: MB 880-66979/5-A
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/23 11:24	11/17/23 00:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/23 11:24	11/17/23 00:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/23 11:24	11/17/23 00:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/14/23 11:24	11/17/23 00:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/23 11:24	11/17/23 00:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/23 11:24	11/17/23 00:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/14/23 11:24*	*11/17/23 00:16*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*11/14/23 11:24*	*11/17/23 00:16*	*1*

Lab Sample ID: LCS 880-66979/1-A
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1095		mg/Kg		109	70 - 130
Toluene	0.100	0.08381		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.09601		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-66979/1-A
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09087		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-66979/2-A
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66979

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1116		mg/Kg		112	70 - 130	2	35
Toluene			0.100	0.08673		mg/Kg		87	70 - 130	3	35
Ethylbenzene			0.100	0.08190		mg/Kg		82	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.1588		mg/Kg		79	70 - 130	18	35
o-Xylene			0.100	0.08711		mg/Kg		87	70 - 130	4	35

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

Lab Sample ID: 890-5605-A-2-D MS
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.1094		mg/Kg		110	70 - 130		
Toluene	<0.00200	U	0.0996	0.08589		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.08784		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1853		mg/Kg		93	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.08835		mg/Kg		88	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-5605-A-2-E MSD
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1099		mg/Kg		111	70 - 130	0	35
Toluene	<0.00200	U	0.0990	0.08552		mg/Kg		86	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.08585		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1780		mg/Kg		90	70 - 130	4	35
o-Xylene	<0.00200	U	0.0990	0.08268		mg/Kg		83	70 - 130	7	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-5605-A-2-E MSD
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66979

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-67061/5-A
Matrix: Solid
Analysis Batch: 67021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/15/23 11:41	11/16/23 12:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/15/23 11:41	11/16/23 12:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/15/23 11:41	11/16/23 12:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/15/23 11:41	11/16/23 12:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/15/23 11:41	11/16/23 12:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/15/23 11:41	11/16/23 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/15/23 11:41*	*11/16/23 12:38*	*1*
1,4-Difluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*11/15/23 11:41*	*11/16/23 12:38*	*1*

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

Lab Sample ID: MB 880-66717/1-A
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/23 13:21	11/12/23 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/23 13:21	11/12/23 08:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/23 13:21	11/12/23 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*11/10/23 13:21*	*11/12/23 08:51*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/10/23 13:21*	*11/12/23 08:51*	*1*

Lab Sample ID: LCS 880-66717/2-A
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	970.4		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-66717/3-A
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66717

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	988.9		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: 890-5575-A-10-D MS
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1	1010	709.0		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	767.7		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 890-5575-A-10-E MSD
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1	1010	692.9	F1	mg/Kg		69	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	786.4		mg/Kg		76	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66669/1-A
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/13/23 11:37	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-66669/2-A
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.4		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-66669/3-A
Matrix: Solid
Analysis Batch: 66812

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-5575-A-11-B MS
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.4		248	275.7		mg/Kg		96	90 - 110		

Lab Sample ID: 890-5575-A-11-C MSD
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.4		248	277.8		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 66698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	5035	
MB 880-66698/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66698/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66698/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5575-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5575-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	8021B	66698
MB 880-66698/5-A	Method Blank	Total/NA	Solid	8021B	66698
LCS 880-66698/1-A	Lab Control Sample	Total/NA	Solid	8021B	66698
LCSD 880-66698/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66698
890-5575-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	66698
890-5575-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66698

Prep Batch: 66979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	5035	
MB 880-66979/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66979/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66979/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5605-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5605-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 67021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	8021B	66979
MB 880-66979/5-A	Method Blank	Total/NA	Solid	8021B	66979
MB 880-67061/5-A	Method Blank	Total/NA	Solid	8021B	67061
LCS 880-66979/1-A	Lab Control Sample	Total/NA	Solid	8021B	66979
LCSD 880-66979/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66979
890-5605-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	66979
890-5605-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66979

Prep Batch: 67061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67061/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 67129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	8015NM Prep	
MB 880-66717/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66717/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 66717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-A-10-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5575-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	8015B NM	66717
MB 880-66717/1-A	Method Blank	Total/NA	Solid	8015B NM	66717
LCS 880-66717/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66717
LCSD 880-66717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66717
890-5575-A-10-D MS	Matrix Spike	Total/NA	Solid	8015B NM	66717
890-5575-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66717

Analysis Batch: 66894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Soluble	Solid	DI Leach	
MB 880-66669/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66669/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66669/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5575-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5575-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 66812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35589-1	SND Pad 601	Soluble	Solid	300.0	66669
MB 880-66669/1-A	Method Blank	Soluble	Solid	300.0	66669
LCS 880-66669/2-A	Lab Control Sample	Soluble	Solid	300.0	66669
LCSD 880-66669/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66669
890-5575-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	66669
890-5575-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66669

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Client Sample ID: SND Pad 601

Date Collected: 11/08/23 13:30
Date Received: 11/09/23 09:57

Lab Sample ID: 880-35589-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66979	11/14/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		5000	5 mL	5 mL	67021	11/17/23 03:49	SM	EET MID
Total/NA	Prep	5035			5.05 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/14/23 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67129	11/17/23 03:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			66894	11/12/23 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 22:14	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		100			66812	11/13/23 14:49	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: SND Pad 601

Job ID: 880-35589-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35589-1	SND Pad 601	Solid	11/08/23 13:30	11/09/23 09:57

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-35589 Chain of Custody

11/17/2023

Client Name: Chevron MCBU	Site Manager: John Faught
Project Name: SND Pad 601	
Project Location (county, state): Eddy County, NM	Project #: TBD
Invoice to: john faught1@tetratech com	
Receiving Laboratory: Eurofins Laboratory	Sampler Signature: B Vaughan
Comments: Email john faught1@tetratech com, russ weigand@tetratech com, kimbeebe@chevron com	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX Cuttings	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	SND Pad 601	11/8/23	1:30PM		X							1	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO DRO ORO - MRO) 418.1	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride EPA 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Method 9095				Hold
X		X												X								

Page 20 of 21

Relinquished by	Date	Time	Received by	Date	Time
Brady Vaughan	11/9	8 00AM			
John Faught	11/9	0955		11/9/23	957

LAB USE ONLY

Sample Temperature: 5.3/5.8

REMARKS:

- ☐ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-35589-1
SDG Number: Eddy County, NM

Login Number: 35589
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

TETRA TECH

Attachment B

C-105 Form, Plot Plan

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
Revised April 3, 2017

1. WELL API NO.
30-015-50066, 50170, 53733, 53798

2. Type of Lease
☐ STATE ☐ FEE ☒ FED/INDIAN

3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☐ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☒ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name Sand Dunes

6. Well Number: Javelina Unit 601 (601H, 602H, 603H, 501H)

7. Type of Completion:
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator: Chevron U.S.A. Inc.

9. OGRID: 4323

10. Address of Operator
6301 Deauville Blvd., Midland, Texas 79706

11. Pool name or Wildcat

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released 9/5/2023	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run

22. Producing Interval(s), of this completion - Top, Bottom, Name

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30. Test Witnessed By

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. Rig Release Date: 9/5/2023

34. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude 32.25394 Longitude -103.78813 NAD83

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature	Printed Name	Title	Date
Kim Beebe			
E-mail Address kdfk@chevron	Kim Beebe	Waste Advisor	10/17/2024

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from……..……..….to……. No. 3, from……to…….……

No. 2, from……to…… No. 4, from……to…….

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

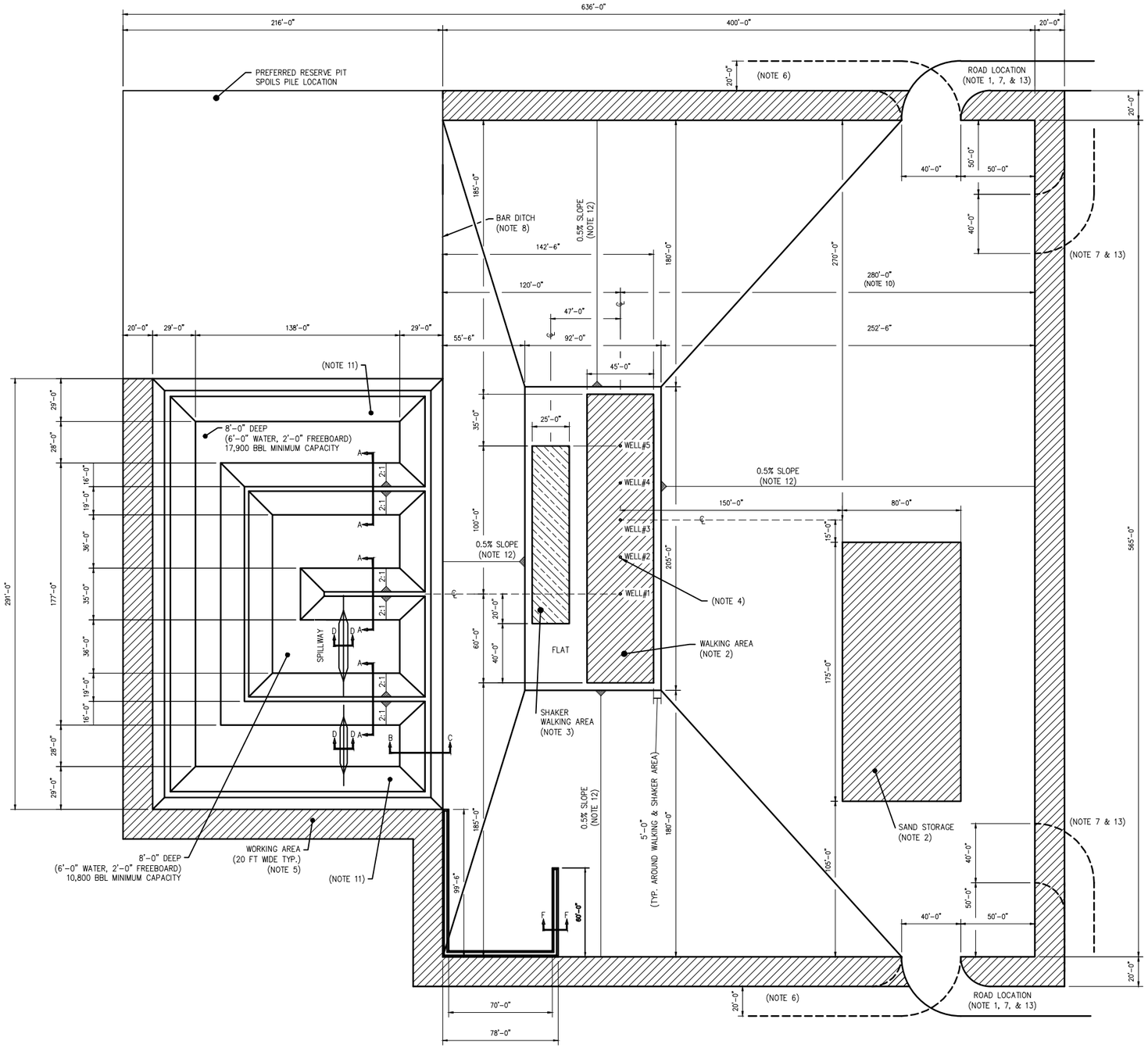
No. 1, from…….to……feet……

No. 2, from…….to……feet……

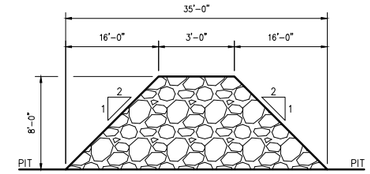
No. 3, from…….to……feet……

LITHOLOGY RECORD (Attach additional sheet if necessary)

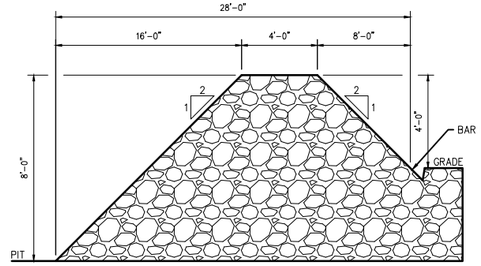
From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology



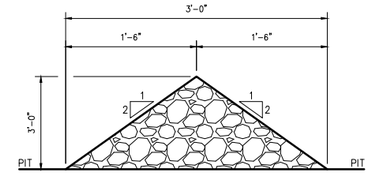
MAGNETIC NORTH



SECTION A–A
NOT TO SCALE

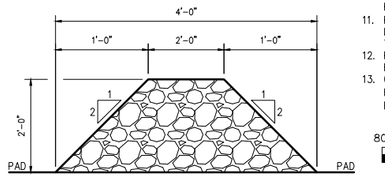


SECTION B–C
NOT TO SCALE



SECTION D–D
NOT TO SCALE

NOTES:
1. PRIMARY PAD ENTRANCE MUST BE ON WEST OR EAST SIDE OF PAD FOR DRILLING LAYOUT.
2. SEE GEO–TECHNICAL INVESTIGATION REPORT FOR COMPACTION RECOMMENDATION. SEE DRILLING MAT LAYOUT FOR DETAILS.
3. SHAKER WALKING AREA IS REQUIRED WHEN USING NABORS M800 SERIES DRILLING RIG.
4. FOR COMPLETIONS GRAVEL LOCATIONS, SEE DWG. FACTSTD–COMGRVL–CIV–PVD–MCB–0001–01.
5. SHADED WORKING AREA IS NOT A PART OF THE PERMITTED PAD. PERMITTED PAD AREA IS 490 FT X 400 FT FOR A 2 WELL PAD.
6. ROAD CAN COME FROM EITHER THE NORTH OR SOUTH DIRECTION DEPENDING ON LEASE ORIENTATION.
7. SECONDARY ACCESS ROAD IS REQUIRED FOR COMPLETIONS DRIVE–THROUGH. SECONDARY ACCESS ROAD CAN BE EITHER ON EAST/WEST EDGE OF PAD OR SOUTH EDGE OF PAD, BUT MUST BE OPPOSITE OF PRIMARY PAD ENTRANCE (REF. NOTE 1) FE MUST CONSULT D&C ADVISOR TO COMPLETE PMOC IF SECONDARY ROAD IS NOT FEASIBLE.
8. 1FT. X 1FT. BAR DITCHING TO BE PROVIDED BETWEEN PAD AND RESERVE PIT. DITCH WILL BE FILLED WITH 1" CLEAN ROCK.
9. 6 LOADS OF ROCK FOR DRILLING TRAILERS & DITCH COM ROCK DROPPED IN NEW CORNER.
10. DIMENSION SOUTH OF THE WELLS CAN BE REDUCED TO 260' IF BASIS OF DESIGN IS CONVENTIONAL FRAC OPERATIONS.
11. PAINT 8' LONG PIT LEVEL MARKERS EVERY 2' FROM THE BOTTOM LABEL BY THE LENGTH OF THE INCLINE FROM THE BOTTOM OF THE PIT.
12. PREDOMINANT DRAINING DIRECTION TO BE FIELD–DETERMINED BASED ON LOCAL TOPOGRAPHY.
13. CROSS SECTIONAL PLANE OF ROAD ENTRANCES TO PAD TO HAVE MAXIMUM SLOPING OF 0.5% (E.G. NO MORE THAN 2.4" OF ELEVATION DROP ALONG THE WIDTH OF A 40FT ENTRANCE.)



SECTION F–F
NOT TO SCALE

80' 40' 0' 20' 40' 60' 80'

SCALE: 1"=40'

SHEET CIV010

REVISIONS

0	APPROVED FOR CONSTRUCTION BASIN DESIGN, DRF 21103 CSD 04/05/21	EV	CKHT					
1	APPROVED FOR CONSTRUCTION BASIN DESIGN, DRF 21252 EV 08/31/21	EB	UGOS					

AFC
APPROVED FOR CONSTRUCTION

Chevron U.S.A. Inc.

FACTORY STANDARD DRAWINGS
PROJECT DESCRIPTION – COUNTY, STATE

CIVIL – FACTORY STANDARD 5 WELL PAD PLAN – OPEN LOOP

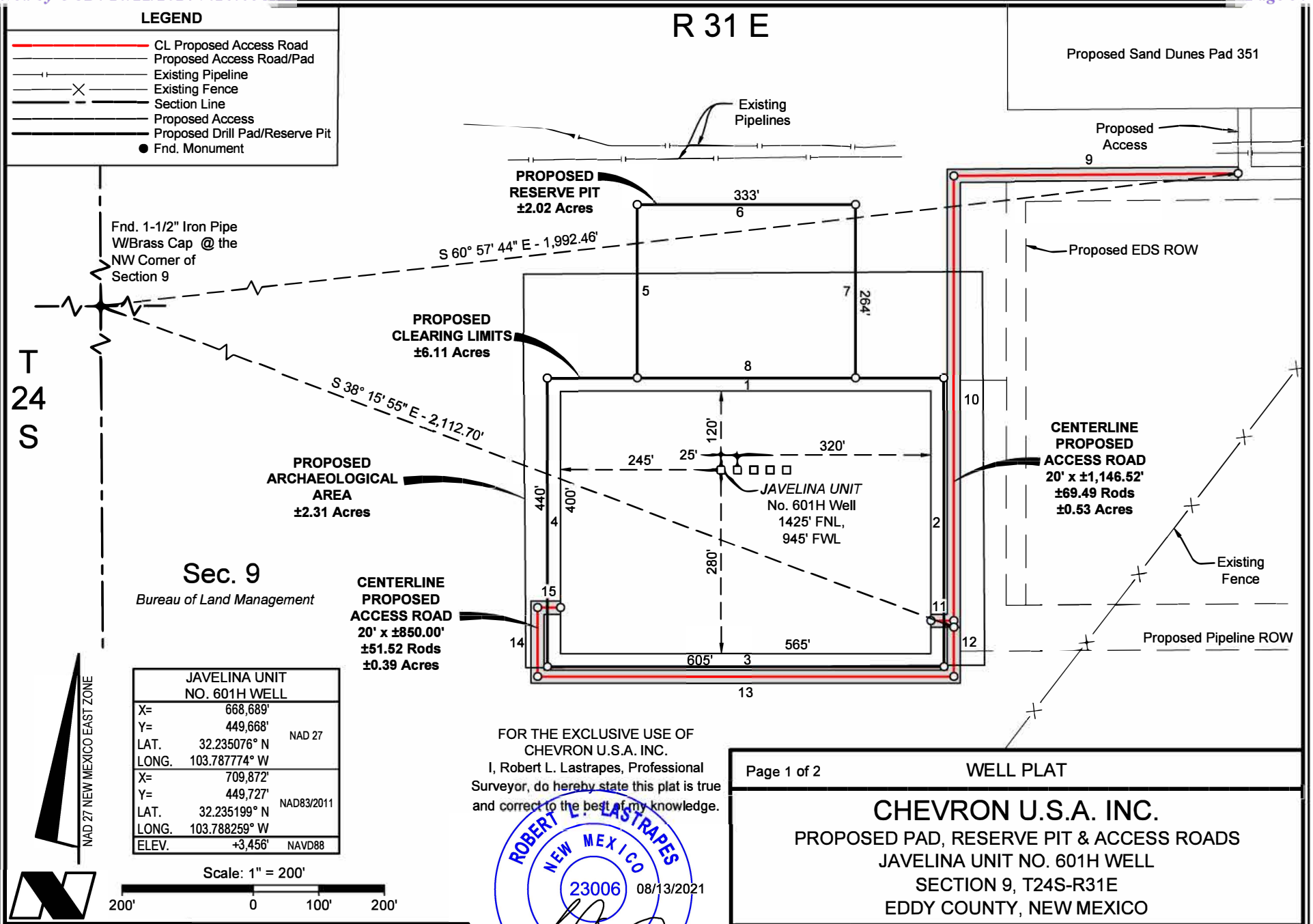
DR. JLH
ENG. KVPY

FACTSTD-5WPADOPN-CIV-PVD-MCB-0001-01

1

ALTERNATE DWG NUMBER API NUMBER LEASE NUMBER *

PLOT DATE: 08/31/2021, FILE NAME: 2020–PADSWELLS–MECH–CIV–PVD–MCB–0002–10



JAVELINA UNIT NO. 601H WELL		
X=	668,689'	NAD 27
Y=	449,668'	
LAT.	32.235076° N	
LONG.	103.787774° W	
X=	709,872'	NAD83/2011
Y=	449,727'	
LAT.	32.235199° N	
LONG.	103.788259° W	
ELEV.	+3,456'	NAVD88

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR 08/13/2021

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

Page 1 of 2

WELL PLAT

CHEVRON U.S.A. INC.

PROPOSED PAD, RESERVE PIT & ACCESS ROADS
JAVELINA UNIT NO. 601H WELL
SECTION 9, T24S-R31E
EDDY COUNTY, NEW MEXICO

	REVISIONS			
DRAWN BY: AMR	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: VHV				
DATE: 08/03/2021				
FILENAME: T:\2021\2213507\DWG\Javelina Unit No. 601H Well Plat.dwg				

NW PAD CORNER			NE PAD CORNER			NW RESERVE PIT CORNER			NE RESERVE PIT CORNER			NW ARCH AREA CORNER			NE ARCH AREA CORNER		
X=	668,424'	NAD 27	X=	669,029'	NAD 27	X=	668,561'	NAD 27	X=	668,894'	NAD 27	X=	668,387'	NAD 27	X=	669,087'	NAD 27
Y=	449,808'		Y=	449,808'		Y=	450,072'		Y=	450,072'		Y=	449,966'		Y=	449,970'	
LAT.	32.235464° N		LAT.	32.235456° N		LAT.	32.236188° N		LAT.	32.236184° N		LAT.	32.235899° N		LAT.	32.235901° N	
LONG.	103.788629° W		LONG.	103.786672° W		LONG.	103.788182° W		LONG.	103.787105° W		LONG.	103.788745° W		LONG.	103.786482° W	
X=	709,607'	NAD83/2011	X=	710,212'	NAD83/2011	X=	709,744'	NAD83/2011	X=	710,077'	NAD83/2011	X=	709,571'	NAD83/2011	X=	710,271'	NAD83/2011
Y=	449,867'		Y=	449,867'		Y=	450,131'		Y=	450,131'		Y=	450,025'		Y=	450,029'	
LAT.	32.235588° N		LAT.	32.235579° N		LAT.	32.236311° N		LAT.	32.236307° N		LAT.	32.236022° N		LAT.	32.236024° N	
LONG.	103.789114° W		LONG.	103.787157° W		LONG.	103.788667° W		LONG.	103.787590° W		LONG.	103.789230° W		LONG.	103.786966° W	
ELEV.	+3454'	NAVD88	ELEV.	+3452'	NAVD88	ELEV.	+3449'	NAVD88	ELEV.	+3448'	NAVD88	ELEV.	+3451'	NAVD88	ELEV.	+3450'	NAVD88
SW PAD CORNER			SE PAD CORNER			SW RESERVE PIT CORNER			SE RESERVE PIT CORNER			SW ARCH AREA CORNER			SE ARCH AREA CORNER		
X=	668,424'	NAD 27	X=	669,029'	NAD 27	X=	668,561'	NAD 27	X=	668,894'	NAD 27	X=	668,390'	NAD 27	X=	669,090'	NAD 27
Y=	449,368'		Y=	449,368'		Y=	449,808'		Y=	449,808'		Y=	449,366'		Y=	449,370'	
LAT.	32.234255° N		LAT.	32.234246° N		LAT.	32.235463° N		LAT.	32.235458° N		LAT.	32.234250° N		LAT.	32.234251° N	
LONG.	103.788636° W		LONG.	103.788680° W		LONG.	103.788186° W		LONG.	103.787109° W		LONG.	103.788744° W		LONG.	103.786480° W	
X=	709,607'	NAD83/2011	X=	710,212'	NAD83/2011	X=	709,744'	NAD83/2011	X=	710,077'	NAD83/2011	X=	709,574'	NAD83/2011	X=	710,274'	NAD83/2011
Y=	449,427'		Y=	449,427'		Y=	449,867'		Y=	449,867'		Y=	449,425'		Y=	449,429'	
LAT.	32.234378° N		LAT.	32.234370° N		LAT.	32.235586° N		LAT.	32.235581° N		LAT.	32.234373° N		LAT.	32.234375° N	
LONG.	103.789121° W		LONG.	103.787165° W		LONG.	103.788671° W		LONG.	103.787594° W		LONG.	103.789229° W		LONG.	103.786965° W	
ELEV.	+3461'	NAVD88	ELEV.	+3460'	NAVD88	ELEV.	+3453'	NAVD88	ELEV.	+3453'	NAVD88	ELEV.	+3461'	NAVD88	ELEV.	+3457'	NAVD88

CENTERLINE PROPOSED ACCESS ROAD		
COURSE	BEARING	DISTANCE
9	S 89° 30' 01" W	433.62'
10	SOUTH	677.90'
11	WEST	35.00'

CENTERLINE PROPOSED ACCESS ROAD		
COURSE	BEARING	DISTANCE
12	SOUTH	75.00'
13	WEST	635.00'
14	NORTH	105.00'
15	EAST	35.00'

PROPOSED CLEARING LIMITS		
COURSE	BEARING	DISTANCE
1	EAST	605.00'
2	SOUTH	440.00'
3	WEST	605.00'
4	NORTH	440.00'

PROPOSED RESERVE PIT		
COURSE	BEARING	DISTANCE
5	NORTH	264.00'
6	EAST	333.00'
7	SOUTH	264.00'
8	WEST	333.00'

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nm811.org

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 08/13/2021 PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

Page 2 of 2

WELL PLAT

CHEVRON U.S.A. INC.

PROPOSED PAD, RESERVE PIT & ACCESS ROADS
JAVELINA UNIT NO. 601H WELL
SECTION 9, T24S-R31E
EDDY COUNTY, NEW MEXICO

	REVISIONS			
DRAWN BY: AMR	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: VHV				
DATE: 08/03/2021				
FILENAME: T:\2021\2213507\DWG\Javelina Unit No. 601H Well Plat.dwg				

TETRA TECH

Attachment C

Soil Backfilling and Cover Installation

TETRA TECH

Soil Backfilling & Cover Installation

Soil backfilling and pit closure activities were completed in accordance with Closure and Site Reclamation Requirements detailed in 19.15.17.13 NMAC and conditions of approval. Photographs are provided on the following pages.

1. The Temporary Pit C-144 application was received and approved by the NMOCD on August 9, 2022.
2. A five-point composite sample was collected from the Temporary Pit and sent to Eurofins Laboratory in Midland, Texas on November 8, 2023. The sample was analyzed for chloride, TPH, GRO+DRO, benzene, and BTEX. Based on the analytical results, a 3:1 soil mixing ratio was needed to meet the in-place closure target concentrations found in Table II of 19.15.17.13 NMAC.
3. A liner installation notice was submitted to the NMOCD on April 5, 2024, with a copy of the analytical report for the five-point composite sample (Attachment A).
4. On March 12, 2024, closure activities commenced with the mixing of the cuttings and sloping of the material so that the overlying liner will shed infiltrating fluids.
5. On April 4, 2024, eTech Environmental and Safety Solutions mobilized to the site and collected a sample confirming that the mixed cuttings passed paint filter analysis. A copy of the paint filter analytical report is included within this attachment.
6. A 40 mil HDPE liner was then installed in a way that prevents ponding of water and is 8 feet below grade.
7. At least four feet of compacted, uncontaminated, non-waste containing earthen fill were placed above the liner.
8. At least one foot of topsoil was placed over the four feet of compacted material and graded to preserve surface flow patterns and prevent ponding.
9. A steel marker was installed in the center of the former Temporary Pit.
10. The area was broadcast reseeded with BLM #2 Seed Mix (Lot#: 21-3251) at a distribution rate of 5.2 bulk pounds per acre. Additional reseeding and/or weed control measures will be taken, if necessary, upon monitoring activities in 2024.
11. Final closure and reclamation activities were completed on April 4, 2024.
12. On May 9, 2024, per recommendation of the NMOCD, confirmation sampling of the backfilled material in the pit was collected to demonstrate that chloride and TPH concentrations were reduced below NMOCD recommended limits. The confirmation samples collected at 2 ft bgs, 4 ft bgs and 6 ft bgs indicated concentrations below NMOCD temporary pit closure in in place standards.

Tetra Tech
901 West Wall Street, Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

From: Kennedy, Joseph, EMNRD
To: Faught, John
Subject: RE: [EXTERNAL] RE: Javelina Unit 601 fJMB2222150892 Closure questions
Date: Tuesday, September 17, 2024 11:10:51 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.jpg

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi John,

A single borehole with samples at every two feet of depth, getting as close to the liner as possible without damaging it. But not composite-keep them separate and analyze separately. Avoid sluffing of hole to keep them separate.

Thanks for asking

Joe Kennedy ● Environmental Scientist Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
1220 S. Saint Francis Drive | Santa Fe, New Mexico 87505
(505) 549-5583 | joseph.kennedy@emnrd.nm.gov
www.emnrd.nm.gov

From: Faught, John <JOHN.FAUGHT1@tetratech.com>
Sent: Tuesday, September 17, 2024 9:38 AM
To: Kennedy, Joseph, EMNRD <Joseph.Kennedy@emnrd.nm.gov>
Cc: kimbeebe@chevron.com
Subject: Re: [EXTERNAL] RE: Javelina Unit 601 fJMB2222150892 Closure questions

> You don't often get email from john.faught1@tetratech.com. Learn why this is important

Thank you Joseph!

Is a single borehole acceptable, or would it need to be a five point composite?

Get Outlook for iOS

From: Kennedy, Joseph, EMNRD <Joseph.Kennedy@emnrd.nm.gov>
Sent: Wednesday, September 11, 2024 5:52:11 PM
To: Faught, John <JOHN.FAUGHT1@tetratech.com>
Subject: FW: [EXTERNAL] RE: Javelina Unit 601 fJMB2222150892 Closure questions

Mr. Faught

Victoria Venegas forwarded me your inquiry. The initial sampling results you have of 112,000 mg/kg for chloride is above the limits of Table II of 19.15.17.13 NMAC, applicable for a depth to groundwater between 50 ft and 100 ft (your permit states DGW in excess of 66 ft). You did not state results for this sampling event for TPH, BTEX. GRO+DRO and Benzene. You indicated that the waste was blended with soil at a 3:1 ratio. According to 19.15.15.13.D.(5) NMAC:

The operator shall collect, at a minimum, a five point composite of the contents of the temporary pit or drying pad/tank associated with a closed-loop system to demonstrate that, after the waste is solidified or stabilized with soil or other non-waste material at a ratio of no more than 3:1 soil or other non-waste material to waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters listed in Table II of 19.15.17.13 NMAC.

Since there was a failure to take a five point composite sample for the constituents on Table II before backfilling, the waste mixture will need to be sampled for the contaminants of Table II, which are Chloride, TPH, BTEX. GRO+DRO and Benzene. OCD will allow you to bore for samples of the blended waste choosing a location in the middle of the pit where the waste would be located, sampling every two feet to a depth of two feet above the liner(being careful not to damage the liner). Your permit design drawing shows the pit at 8 feet deep, so sampling should occur at depths of 2 ft, 4 ft, and 6 ft. If sample results indicate contamination below the limits of Table II, you may simply fill in the borehole. However. 19.15.15.13.D.(7)NMAC states:

If the concentration of any contaminant in the contents, after mixing with soil or non-waste material to a maximum ratio of 3:1, from a temporary pit or drying pad/tank associated with a closed-loop system is higher than constituent concentrations shown in Table II of 19.15.17.13 NMAC, then closure must proceed in accordance with Subsection C of 19.15.17.13 NMAC.

Please feel free to call or write me with any questions or if we need to adjust depths based on any information you may have that is different from mine.

Thank you,

Joe Kennedy ● Environmental Scientist Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division

1220 S. Saint Francis Drive | Santa Fe, New Mexico 87505
(505) 549-5583 | joseph.kennedy@emnrd.nm.gov
www.emnrd.nm.gov

From: Faught, John <JOHN.FAUGHT1@tetratech.com>
Sent: Thursday, September 5, 2024 9:35 AM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@emnrd.nm.gov>
Cc: kimbeebe@chevron.com
Subject: RE: [EXTERNAL] RE: Javelina Unit 601 fJMB2222150892 Closure questions

Good morning Ms. Venegas,

I wanted to discuss confirmation sampling of the Javelina Unit 601 pit. Initial sampling was conducted and indicated that a 3:1 soil ratio would be blended with pit cutting to reduce chloride concentrations to below the recommended threshold. The initial sampling indicated a chloride concentration of 112,000 mg/kg. After blending activities were completed, a paint filter sample was collected, however, no confirmation sample was collected of the blended material for BTEX, TPH and Chloride by mistake. The pit has since been backfilled and I was wondering if you had any suggestions or recommendations regarding whether or not a final confirmation sample is necessary. I appreciate your time.

Have a great day,

John Faught, GIT | Project Manager
Mobile **+1 (432) 222-6197** | john.faught1@tetratech.com

Tetra Tech | *Leading with Science®* | OGA
901 West Wall Street, Suite 100 | Midland, Texas 79701 | tetratech.com |

Climate positive and carbon negative by 2030. Read more

From: Venegas, Victoria, EMNRD <Victoria.Venegas@emnrd.nm.gov>
Sent: Thursday, August 29, 2024 2:21 PM

To: Faught, John <JOHN.FAUGHT1@tetratech.com>
Cc: kimbeebe@chevron.com
Subject: RE: [EXTERNAL] RE: Javelina Unit 601 fJMB2222150892 Closure questions

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Good afternoon Mr. Faught.
Please email me your questions, and if necessary, we can schedule a call for further clarifications.
Thank you for your cooperation.
Regards,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov
https://www.emnrd.nm.gov/ocd/

From: Faught, John <JOHN.FAUGHT1@tetratech.com>
Sent: Thursday, August 29, 2024 8:44 AM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@emnrd.nm.gov>
Cc: kimbeebe@chevron.com
Subject: [EXTERNAL] RE: Javelina Unit 601 fJMB2222150892 Closure questions

You don't often get email from john.faught1@tetratech.com. Learn why this is important

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Ms. Venegas,

I just wanted to follow up on the previous email and see if you available for a quick call.

Thanks,

John

From: Faught, John
Sent: Monday, August 26, 2024 11:51 AM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@emnrd.nm.gov>
Cc: kimbeebe@chevron.com
Subject: Javelina Unit 601 fJMB2222150892 Closure questions

Good morning Ms. Venegas,

I have some questions regarding the closure process at a pit at the Javelina Unit 601 fJMB2222150892. I was wondering if you would be able to jump on a teams call to discuss the issues. Is there a good time that I can set up a call? Have a great day!

Thank you,

John Faught, GIT | Project Manager
Mobile **+1 (432) 222-6197** | john.faught1@tetratech.com

Tetra Tech | *Leading with Science®* | OGA
901 West Wall Street, Suite 100 | Midland, Texas 79701 | tetratech.com |

Climate positive and carbon negative by 2030. Read more

Photographic Log

Javelina Unit 601 (601H, 602H, 603H, 501H)

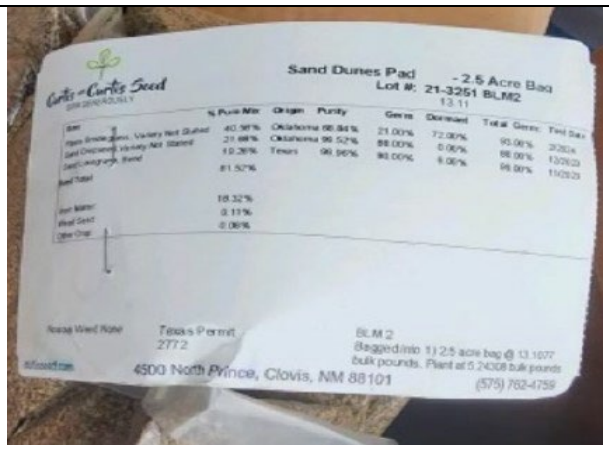


Photo 1: Overview of seed mix documentation.

Photo 2: Overview of liner installation.

Photo 3: Overview of liner installation.

Photo 4: Overview of backfilling activities.

Photo 5: Overview of backfilling activities.

Photo 6: Overview of pit signage.

Page No.	Client:	Site Name:	
1 of 1	Chevron MCBU	Javelina Unit 601	TETRA TECH

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Blake Estep
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 4/14/2024 11:39:14 PM

JOB DESCRIPTION

Sand Pad-601
20199

JOB NUMBER

880-41825-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
4/14/2024 11:39:14 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Etech Environmental & Safety Solutions
Project/Site: Sand Pad-601

Laboratory Job ID: 880-41825-1
SDG: 20199

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Job ID: 880-41825-1
Project/Site: Sand Pad-601
SDG: 20199

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions Job ID: 880-41825-1
Project: Sand Pad-601

Job ID: 880-41825-1 Eurofins Midland

Job Narrative
880-41825-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 4/3/2024 4:19 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C.

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Sand Pad-601

Job ID: 880-41825-1
SDG: 20199

Client Sample ID: Sand Pit
Date Collected: 04/02/24 12:00
Date Received: 04/03/24 16:19

Lab Sample ID: 880-41825-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Paint Filter (SW846 9095B)	PASS				No Unit			04/13/24 20:16	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Sand Pad-601

Job ID: 880-41825-1
SDG: 20199

Method: 9095B - Paint Filter (Presence/Absence)

Lab Sample ID: MB 860-154703/1
Matrix: Solid
Analysis Batch: 154703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Paint Filter	PASS				No Unit			04/13/24 20:16	1

Lab Sample ID: 870-25860-B-1 DU
Matrix: Solid
Analysis Batch: 154703

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Paint Filter	PASS			PASS		No Unit				NC	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Sand Pad-601

Job ID: 880-41825-1
SDG: 20199

General Chemistry

Analysis Batch: 154703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-41825-1	Sand Pit	Total/NA	Solid	9095B	
MB 860-154703/1	Method Blank	Total/NA	Solid	9095B	
870-25860-B-1 DU	Duplicate	Total/NA	Solid	9095B	

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-41825-1
Project/Site: Sand Pad-601
SDG: 20199

Client Sample ID: Sand Pit
Lab Sample ID: 880-41825-1

Date Collected: 04/02/24 12:00
Matrix: Solid

Date Received: 04/03/24 16:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9095B		1			154703	04/13/24 20:16	MLEI	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-41825-1
Project/Site: Sand Pad-601
SDG: 20199

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Sand Pad-601

Job ID: 880-41825-1
SDG: 20199

Method	Method Description	Protocol	Laboratory
9095B	Paint Filter (Presence/Absence)	SW846	EET HOU

Protocol References:

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Sand Pad-601

Job ID: 880-41825-1
SDG: 20199

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-41825-1	Sand Pit	Solid	04/02/24 12:00	04/03/24 16:19

Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

Work Order No: PAT

www xenco com Page 1 of 1

Project Manager	Blake Estep	Bill to (if different)	
Company Name	Etech Environmental	Company Name	
Address	13000 West CR 100	Address	
City, State ZIP	Midland, TX 79711	City, State ZIP	
Phone	(432)563-2200	Email	blake@etechenv com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Sand Pad - 601
Project Number	20199
P O Number	20199
Sampler's Name	Maribella Sanchez

Turn Around: Routine ☑ Rush ☐ Due Date

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Temperature (°C)	6.0 / 5.9	Thermometer ID	IR4	
Received Intact	(Yes) No			
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.1	
Sample Custody Seals	Yes No (N/A)	Total Containers		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride (E300)	TPH (TX1005)	X Paint Filter Test
Sand pit	SS	4-2-24	1200	—	1			X

Work Order Notes

Bill Etech

41825

Sample Comments

880-41825 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed These terms will be enforced unless previously negotiated

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/3/24 16:11	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Louisiana; NELAP Texas		Job #: 880-41825-1
Address: 4145 Greenbriar Dr	Due Date Requested: 4/9/2024			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Sand Pad-601	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes.

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=Air)	8086B_PA	Special Instructions/Note:
Sand Pit (880-41825-1)	4/2/24	12:00 Central		Solid	X	

Temp. C/F +0.2 2 4 IR ID:HOU-368
Corrected Temp 24

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:				4/5/2024 9:26	EX
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-41825-1
SDG Number: 20199

Login Number: 41825
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-41825-1
SDG Number: 20199

Login Number: 41825
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 04/05/24 12:57 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: John Faught
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 10/9/2024 1:53:57 PM

JOB DESCRIPTION

SND Pad 601
Eddy County, NM

JOB NUMBER

880-49454-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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10/9/2024 1:53:57 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Laboratory Job ID: 880-49454-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech Inc
Project: SND Pad 601

Job ID: 880-49454-1

Job ID: 880-49454-1 Eurofins Midland

Job Narrative
880-49454-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/7/2024 2:35 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 6.6°C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (2') (880-49454-1), CS-1 (4') (880-49454-2), CS-1 (6') (880-49454-3), (CCV 880-92652/51), (CCV 880-92652/64), (LCS 880-92713/1-A), (LCSD 880-92713/2-A), (880-49435-A-2-B), (880-49435-A-2-D MS) and (880-49435-A-2-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92654 and 880-92713 and analytical batch 880-92652 was outside the upper control limits.

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-92683 and analytical batch 880-92803 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Client Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Client Sample ID: CS-1 (2')

Date Collected: 10/07/24 12:30
Date Received: 10/07/24 14:35

Lab Sample ID: 880-49454-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/07/24 14:24	10/09/24 03:16	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/07/24 14:24	10/09/24 03:16	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/07/24 14:24	10/09/24 03:16	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/07/24 14:24	10/09/24 03:16	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/07/24 14:24	10/09/24 03:16	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/07/24 14:24	10/09/24 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*10/07/24 14:24*	*10/09/24 03:16*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/07/24 14:24*	*10/09/24 03:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			10/09/24 03:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			10/08/24 20:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		10/07/24 11:44	10/08/24 20:31	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		10/07/24 11:44	10/08/24 20:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		10/07/24 11:44	10/08/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*10/07/24 11:44*	*10/08/24 20:31*	*1*
o-Terphenyl	*81*		*70 - 130*	*10/07/24 11:44*	*10/08/24 20:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**621**		5.03	0.397	mg/Kg			10/08/24 13:40	1

Client Sample ID: CS-1 (4')

Date Collected: 10/07/24 12:35
Date Received: 10/07/24 14:35

Lab Sample ID: 880-49454-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		10/07/24 14:24	10/09/24 03:37	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		10/07/24 14:24	10/09/24 03:37	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		10/07/24 14:24	10/09/24 03:37	1
m-Xylene & p-Xylene	**0.0184**		0.00398	0.00227	mg/Kg		10/07/24 14:24	10/09/24 03:37	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		10/07/24 14:24	10/09/24 03:37	1
Xylenes, Total	**0.0184**		0.00398	0.00227	mg/Kg		10/07/24 14:24	10/09/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*	*10/07/24 14:24*	*10/09/24 03:37*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/07/24 14:24*	*10/09/24 03:37*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Client Sample ID: CS-1 (4')

Lab Sample ID: 880-49454-2
Matrix: Solid
Date Collected: 10/07/24 12:35
Date Received: 10/07/24 14:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0184**		0.00398	0.00227	mg/Kg			10/09/24 03:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			10/08/24 20:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/07/24 11:44	10/08/24 20:47	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/07/24 11:44	10/08/24 20:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/07/24 11:44	10/08/24 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*10/07/24 11:44*	*10/08/24 20:47*	*1*
o-Terphenyl	*75*		*70 - 130*	*10/07/24 11:44*	*10/08/24 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		25.0	1.98	mg/Kg			10/08/24 13:46	5

Client Sample ID: CS-1 (6')

Lab Sample ID: 880-49454-3
Matrix: Solid
Date Collected: 10/07/24 12:42
Date Received: 10/07/24 14:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		10/07/24 14:24	10/09/24 03:57	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		10/07/24 14:24	10/09/24 03:57	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		10/07/24 14:24	10/09/24 03:57	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		10/07/24 14:24	10/09/24 03:57	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		10/07/24 14:24	10/09/24 03:57	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		10/07/24 14:24	10/09/24 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*167*	*S1+*	*70 - 130*	*10/07/24 14:24*	*10/09/24 03:57*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/07/24 14:24*	*10/09/24 03:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			10/09/24 03:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			10/08/24 21:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		10/07/24 11:44	10/08/24 21:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		10/07/24 11:44	10/08/24 21:02	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Client Sample ID: CS-1 (6')
Date Collected: 10/07/24 12:42
Date Received: 10/07/24 14:35

Lab Sample ID: 880-49454-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		10/07/24 11:44	10/08/24 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/07/24 11:44*	*10/08/24 21:02*	*1*
o-Terphenyl	*81*		*70 - 130*	*10/07/24 11:44*	*10/08/24 21:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		4.97	0.393	mg/Kg			10/08/24 13:51	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49435-A-2-D MS	Matrix Spike	149 S1+	86
880-49435-A-2-E MSD	Matrix Spike Duplicate	153 S1+	87
880-49454-1	CS-1 (2')	161 S1+	86
880-49454-2	CS-1 (4')	179 S1+	87
880-49454-3	CS-1 (6')	167 S1+	86
LCS 880-92713/1-A	Lab Control Sample	149 S1+	86
LCSD 880-92713/2-A	Lab Control Sample Dup	151 S1+	86
MB 880-92654/5-A	Method Blank	151 S1+	86
MB 880-92713/5-B	Method Blank	150 S1+	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49435-A-3-D MS	Matrix Spike	84	74
880-49435-A-3-E MSD	Matrix Spike Duplicate	85	75
880-49454-1	CS-1 (2')	105	81
880-49454-2	CS-1 (4')	98	75
880-49454-3	CS-1 (6')	106	81
LCS 880-92683/2-A	Lab Control Sample	117	107
LCSD 880-92683/3-A	Lab Control Sample Dup	114	103
MB 880-92683/1-A	Method Blank	98	80

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92654/5-A
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/07/24 08:14	10/08/24 11:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/07/24 08:14	10/08/24 11:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/07/24 08:14	10/08/24 11:19	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/07/24 08:14	10/08/24 11:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/07/24 08:14	10/08/24 11:19	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/07/24 08:14	10/08/24 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*10/07/24 08:14*	*10/08/24 11:19*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/07/24 08:14*	*10/08/24 11:19*	*1*

Lab Sample ID: MB 880-92713/5-B
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/07/24 14:24	10/08/24 22:17	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/07/24 14:24	10/08/24 22:17	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/07/24 14:24	10/08/24 22:17	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/07/24 14:24	10/08/24 22:17	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/07/24 14:24	10/08/24 22:17	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/07/24 14:24	10/08/24 22:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*10/07/24 14:24*	*10/08/24 22:17*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/07/24 14:24*	*10/08/24 22:17*	*1*

Lab Sample ID: LCS 880-92713/1-A
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	0.100	0.1044		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2169		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-92713/2-A
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92713

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	7	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-92713/2-A
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92713

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1120		mg/Kg		112	70 - 130	7	35
Ethylbenzene			0.100	0.1124		mg/Kg		112	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2312		mg/Kg		116	70 - 130	6	35
o-Xylene			0.100	0.1171		mg/Kg		117	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-49435-A-2-D MS
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 92713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.09844		mg/Kg		98	70 - 130
Toluene	<0.00200	U	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.1062		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2203		mg/Kg		110	70 - 130
o-Xylene	<0.00158	U	0.100	0.1124		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-49435-A-2-E MSD
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 92713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09492		mg/Kg		95	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.09988		mg/Kg		100	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.100	0.1068		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2235		mg/Kg		112	70 - 130	1	35
o-Xylene	<0.00158	U	0.100	0.1141		mg/Kg		114	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

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

Lab Sample ID: MB 880-92683/1-A
Matrix: Solid
Analysis Batch: 92803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/07/24 11:43	10/08/24 08:47	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-92683/1-A
Matrix: Solid
Analysis Batch: 92803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/07/24 11:43	10/08/24 08:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/07/24 11:43	10/08/24 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*10/07/24 11:43*	*10/08/24 08:47*	*1*
o-Terphenyl	*80*		*70 - 130*	*10/07/24 11:43*	*10/08/24 08:47*	*1*

Lab Sample ID: LCS 880-92683/2-A
Matrix: Solid
Analysis Batch: 92803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1130		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	984.1		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-92683/3-A
Matrix: Solid
Analysis Batch: 92803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1134		mg/Kg		113	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	950.2		mg/Kg		95	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 880-49435-A-3-D MS
Matrix: Solid
Analysis Batch: 92803

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 92683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	999	816.4		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	169	F1	999	721.4	F1	mg/Kg		55	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-49435-A-3-E MSD
Matrix: Solid
Analysis Batch: 92803

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 92683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	999	809.4		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	169	F1	999	738.7	F1	mg/Kg		57	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92759/1-A
Matrix: Solid
Analysis Batch: 92770

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			10/08/24 12:25	1

Lab Sample ID: LCS 880-92759/2-A
Matrix: Solid
Analysis Batch: 92770

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.4		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-92759/3-A
Matrix: Solid
Analysis Batch: 92770

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.5		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-49435-A-1-F MS
Matrix: Solid
Analysis Batch: 92770

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11000	F1	5040	16920	F1	mg/Kg		117	90 - 110

Lab Sample ID: 880-49435-A-1-G MSD
Matrix: Solid
Analysis Batch: 92770

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11000	F1	5040	16970	F1	mg/Kg		118	90 - 110	0	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7215-A-1-C MS
Matrix: Solid
Analysis Batch: 92770

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21.1		252	269.9		mg/Kg		99	90 - 110

Lab Sample ID: 890-7215-A-1-D MSD
Matrix: Solid
Analysis Batch: 92770

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21.1		252	270.0		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 92652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Total/NA	Solid	8021B	92713
880-49454-2	CS-1 (4')	Total/NA	Solid	8021B	92713
880-49454-3	CS-1 (6')	Total/NA	Solid	8021B	92713
MB 880-92654/5-A	Method Blank	Total/NA	Solid	8021B	92654
MB 880-92713/5-B	Method Blank	Total/NA	Solid	8021B	92713
LCS 880-92713/1-A	Lab Control Sample	Total/NA	Solid	8021B	92713
LCSD 880-92713/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92713
880-49435-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	92713
880-49435-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	92713

Prep Batch: 92654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-92654/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 92713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Total/NA	Solid	5035	
880-49454-2	CS-1 (4')	Total/NA	Solid	5035	
880-49454-3	CS-1 (6')	Total/NA	Solid	5035	
MB 880-92713/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-92713/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92713/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49435-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
880-49435-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 92852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Total/NA	Solid	Total BTEX	
880-49454-2	CS-1 (4')	Total/NA	Solid	Total BTEX	
880-49454-3	CS-1 (6')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 92683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-49454-2	CS-1 (4')	Total/NA	Solid	8015NM Prep	
880-49454-3	CS-1 (6')	Total/NA	Solid	8015NM Prep	
MB 880-92683/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92683/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49435-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49435-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Total/NA	Solid	8015B NM	92683
880-49454-2	CS-1 (4')	Total/NA	Solid	8015B NM	92683
880-49454-3	CS-1 (6')	Total/NA	Solid	8015B NM	92683
MB 880-92683/1-A	Method Blank	Total/NA	Solid	8015B NM	92683
LCS 880-92683/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92683

QC Association Summary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 92803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-92683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92683
880-49435-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	92683
880-49435-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	92683

Analysis Batch: 92909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Total/NA	Solid	8015 NM	
880-49454-2	CS-1 (4')	Total/NA	Solid	8015 NM	
880-49454-3	CS-1 (6')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Soluble	Solid	DI Leach	
880-49454-2	CS-1 (4')	Soluble	Solid	DI Leach	
880-49454-3	CS-1 (6')	Soluble	Solid	DI Leach	
MB 880-92759/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92759/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92759/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49435-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-49435-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-7215-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7215-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 92770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49454-1	CS-1 (2')	Soluble	Solid	300.0	92759
880-49454-2	CS-1 (4')	Soluble	Solid	300.0	92759
880-49454-3	CS-1 (6')	Soluble	Solid	300.0	92759
MB 880-92759/1-A	Method Blank	Soluble	Solid	300.0	92759
LCS 880-92759/2-A	Lab Control Sample	Soluble	Solid	300.0	92759
LCSD 880-92759/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92759
880-49435-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	92759
880-49435-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	92759
890-7215-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	92759
890-7215-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	92759

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Client Sample ID: CS-1 (2')

Lab Sample ID: 880-49454-1

Date Collected: 10/07/24 12:30
Matrix: Solid
Date Received: 10/07/24 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	92713	10/07/24 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/09/24 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92852	10/09/24 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			92909	10/08/24 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92683	10/07/24 11:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92803	10/08/24 20:31	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92759	10/08/24 08:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92770	10/08/24 13:40	CH	EET MID

Client Sample ID: CS-1 (4')

Lab Sample ID: 880-49454-2

Date Collected: 10/07/24 12:35
Matrix: Solid
Date Received: 10/07/24 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92713	10/07/24 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/09/24 03:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92852	10/09/24 03:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			92909	10/08/24 20:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92683	10/07/24 11:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92803	10/08/24 20:47	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92759	10/08/24 08:56	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92770	10/08/24 13:46	CH	EET MID

Client Sample ID: CS-1 (6')

Lab Sample ID: 880-49454-3

Date Collected: 10/07/24 12:42
Matrix: Solid
Date Received: 10/07/24 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92713	10/07/24 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/09/24 03:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92852	10/09/24 03:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			92909	10/08/24 21:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92683	10/07/24 11:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92803	10/08/24 21:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92759	10/08/24 08:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92770	10/08/24 13:51	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech Inc
Project/Site: SND Pad 601

Job ID: 880-49454-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49454-1	CS-1 (2')	Solid	10/07/24 12:30	10/07/24 14:35
880-49454-2	CS-1 (4')	Solid	10/07/24 12:35	10/07/24 14:35
880-49454-3	CS-1 (6')	Solid	10/07/24 12:42	10/07/24 14:35

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-49454 Chain of Custody

Client Name:	Chevron MCBU	**Site Manager:**	John Faught
Project Name:	SND Pad 601		
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-03278
Invoice to:	john.faught1@tetratech.com		
Receiving Laboratory:	Eurofins Laboratory	**Sampler Signature:**	Matthew Gustrigan

Comments:

Email: john.faught1@tetratech.com; russ.weigand@tetratech.com; kimbeebe@chevron.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX Cuttings	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride EPA 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Method 9095			Hold
	CS-1 (2')	10/7/24	1230		X			X	1		X		X											X							
	CS-1 (4')	↓	1235		X			↓	1		X		X											X							
	CS-1 (6')	↓	1242		X			↓	1		X		X											X							

Relinquished by:	Matthew Gustrigan	Date:	10/7/24	Time:	Received by:	Date:	Time:
Relinquished by:		Date:		Time:	Received by:	Date:	Time:
Relinquished by:		Date:		Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 4.7/6.6

REMARKS:

- ☐ **RUSH:** Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 880-49454-1
SDG Number: Eddy County, NM

Login Number: 49454
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

TETRA TECH

Attachment D

Updated C-144 Form

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

Form C-144
Revised October 11, 2022

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Temp Pit1

Type of action:
- ☐ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☑ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Chevron USA, Inc. OGRID #: 4323
Address: 6301 Deauville Blvd., Midland, TX 79706
Facility or well name: Javelina Unit 601 (601H, 602H, 603H, 501H)
API Number: 30-015-50066, 50170, 53733,53798 OCD Permit Number: Facility ID: [fJMB2222150892]
U/L or Qtr/Qtr D Section 9 Township 24S Range 31E County: Eddy
Center of Proposed Design: Latitude 32.25394 Longitude -103.78813 NAD83
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☑ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☑ Lined ☐ Unlined Liner type: Thickness 40 mil ☐ LLDPE ☑ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☑ Welded ☐ Factory ☐ Other _____ Volume: 1x17,900, 1x10,800 bbl Dimensions: L 291' x W 196' x D 8'

3.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: _____bbl Type of fluid: _____
Tank Construction material: _____
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____mil ☐ HDPE ☐ PVC ☐ Other _____

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☑ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify_____

6.

Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☑ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☑ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area. **(Does not apply to below grade tanks)** - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☑ No
Within a 100-year floodplain. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☑ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☑ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ Alternative

Proposed Closure Method:
- ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☑ On-site Closure Method (Only for temporary pits and closed-loop systems)
  - ☑ In-place Burial ☐ On-site Trench Burial
- ☐ Alternative Closure Method

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☑ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☑ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☑ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature:_____ Date: _____

e-mail address:_____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:**_____

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☑ **Closure Completion Date:** May 9, 2024

20.
Closure Method:

☐ Waste Excavation and Removal ☑ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☑ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☑ Plot Plan (for on-site closures and temporary pits)
- ☑ Confirmation Sampling Analytical Results (if applicable)
- ☑ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ Disposal Facility Name and Permit Number
- ☑ Soil Backfilling and Cover Installation
- ☑ Re-vegetation Application Rates and Seeding Technique
- ☑ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 32.23594 Longitude -103.78813 NAD: ☐ 1927 ☑ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Kim Beebe Title: Waste Advisor

Signature: Kim Beebe Date: 10/17/2024

e-mail address: kimbeebe@chevron.com Telephone: 310-606-9561

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

Action 394457

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394457
	Action Type: [C-144] Temporary Pit Plan (C-144T)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	None	11/5/2024