Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

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State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Nikki Mishler Title: Sr. Environmental Representative

Signature: Nikki Mishler Date: 9/22/22

email: Nikki.Mishler@cdevinc.com Telephone: 432-634-8722

OCD Only

Received by: Date:

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209453022
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Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Nikki Mishler Title: Sr. Environmental Representative

Signature: Nikki Mishler Date: 9/22/22

email: Nikki.Mishler@cdevinc.com Telephone: 432-634-8722

OCD Only

Received by: Date:

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 09/26/2022

September 21, 2022

Nikki Mishler
Permian Resources (Formerly Centennial)
500 W. Illinois Ave. Suite 500
Midland, TX 79701
Nikki.Mishler@cdevinc.com

Re: Soil Investigation Summary and Proposed Remediation Workplan
Chimichanga 12 State Com CTB #2 (501H-503H) Release (nAPP2209453022)
GPS: 32.41010° -103.41863°
Unit Letter "A", Section 12, Township 22 South, Range 34 East
Lea County, New Mexico

Dear Ms. Mishler,

TRC Environmental Corporation (TRC), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Soil Investigation Summary and Proposed Remediation Workplan (Workplan) for the Chimichanga 12 State Com CTB #2 (501-503H) (Release Site). The purpose of this Workplan is to propose remediation activities designed to advance the Release Site toward a New Mexico Oil and Conservation District (NMOCD) approved Site Closure Status. The legal description of the Release Site is Unit Letter "A", Section 12, Township 22 South, Range 34 East, in Lea County, New Mexico. The subject property is administered by the New Mexico State Land Office (NMSLO). The GPS coordinates for the site are GPS: 32.41010°, -103.41863°. A Site Location Map and Site Details and Soil Sample Location Map are provided as Figure 1 and Figure 2, respectively.

On April 4, 2022, a crude oil release occurred at the Chimichanga 12 State Com CTB #2 (501-503H). The heater treater pop off valve opened due to high pressure. Following decompression of the vessel, the separator was flooded, resulting in the release at the flare. The released crude oil ignited but was immediately self-extinguished. On April 4, 2022, Centennial reported the release to the NMOCD District 1 Office located in Hobbs, New Mexico and the release was assigned the incident number nAPP2209453022. A Release Notification and Corrective Action Form (Form C-141) was subsequently submitted to the NMOCD on April 7, 2022. The release was reported as approximately 0.75 barrels of crude oil released with approximately zero (0) barrels of crude oil recovered, resulting in a net loss of approximately 0.75 barrels of crude oil. A copy of the NMOCD Release Notification and Corrective Action Form C-141 is attached to this Workplan.

A search of the groundwater database maintained by the United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 322424103255801 located approximately eight tenths (0.8) of a mile southwest of the Release Site. The average depth of groundwater for USGS Well #: 322424103255801 is recorded at approximately twenty-three (23) feet below ground surface (bgs). No water wells were observed within one-thousand feet of the Release Site. No surface water was observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, the following soil remediation levels will be assigned to the Release Site as a result of this criterion.

Based on the NMOCD Site Classification criteria, the Release Site remediation levels are 10 mg/kg for benzene, 50 mg/kg for benzene, toluene, ethylbenzene and xylenes (BTEX), 100 mg/kg for total petroleum hydrocarbons (TPH), and 600 mg/kg for chloride concentrations.

On July 1, 2022, TRC utilized a hand auger to collect six (6) delineation samples (COMP-1 @ Surface, COMP-1 @ 6", COMP-2 @ Surface, COMP-2 @ 6", COMP-3 @ Surface, and COMP-3 @ 6") from within the Release Site. The depths of the delineation samples collected were based on visual and olfactory observations.

Based on the analytical results of the soil samples collected on June 1, 2022, in addition to research and field observations TRC proposes the following field activities designed to complete remediation activities at the Chimichanga 12 State Com CTB #2 (501H-503H):

- The area represented by sample points COMP-1 @ Surface, COMP-1 @ 6", and COMP-2 @ Surface will be excavated to depths ranging from approximately six (6) to eighteen (18) inches bgs or until TPH concentrations are no longer detected above NMOCD remediation levels.
- Confirmation soil samples will be collected every two hundred (200) square feet from the base and sidewalls of the excavated area. Samples will be submitted for TPH, BTEX, and chloride analysis.
- Upon receipt of analytical results below NMOCD remediation levels, TRC will backfill the excavation with locally purchased non-impacted "like" soil or caliche. In addition, impacted soil will be transported under manifest to an NMOCD approved disposal facility (Sundance Facility).
- Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD.

TRC recommends submitting this work plan to the NMOCD and NMSLO. TRC is prepared to begin the activities outlined in this Proposed Remediation Workplan upon NMOCD and NMSLO approval. Work will be completed within 90 days of approval from the NMOCD and NMSLO.

If you have any questions, or if additional information is required, please feel free to call me at 432-563-2200 (office) or 432-230-3763 (cell).

Thank you,

Matthew Green

Matthew Green, P.G.
Senior Project Manager

Attachments:

Figure 1 - Site Location Map
Figure 2 - Site Details and Soil Sample Location Map
Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil
Photographic Documentation
Laboratory Analytical Results
Release Notification and Corrective Action (Form C-141)

cc: File

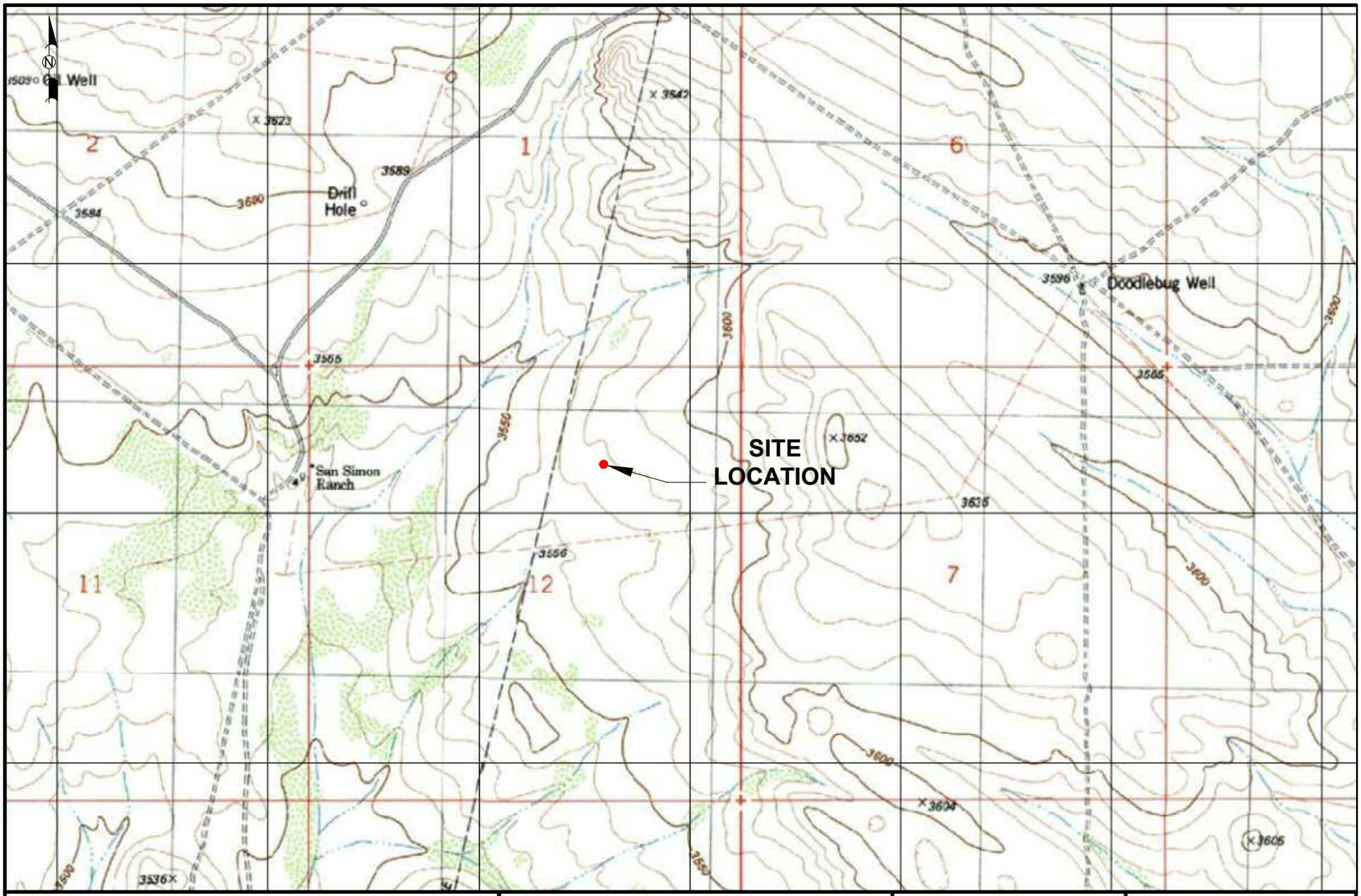


Figure 1
Site Location Map

Centennial Resource Production, Inc.
Chimichanga 12 State Corn CTB #2 (501H-503H)
Township 22S, Section 12, Range 034E
Lea County, NM

Scale: 1" = 800'
CAD By: JPR
Checked By: MKG
Draft: September 14, 2022
Lat. N 32.41010° Long. W 103.41863°

TRC

LEGEND:

Impacted Area

Grab Soil Sample Location

100 50 0 50 100

Distance in Feet

Figure 2
Site Details & Soil Sample Location Map
Centennial Resource Production, Inc.
Chimichanga 12 State Corn CTB #2 (501H-503H)
Township 22S, Section 12, Range 034E
Lea County, NM

Scale: 1" = 100'
Map By: MKG
Checked By: JPR
Draft: September 14, 2022
Lat. N 32.41010° Long. W 103.41863°

TRC

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

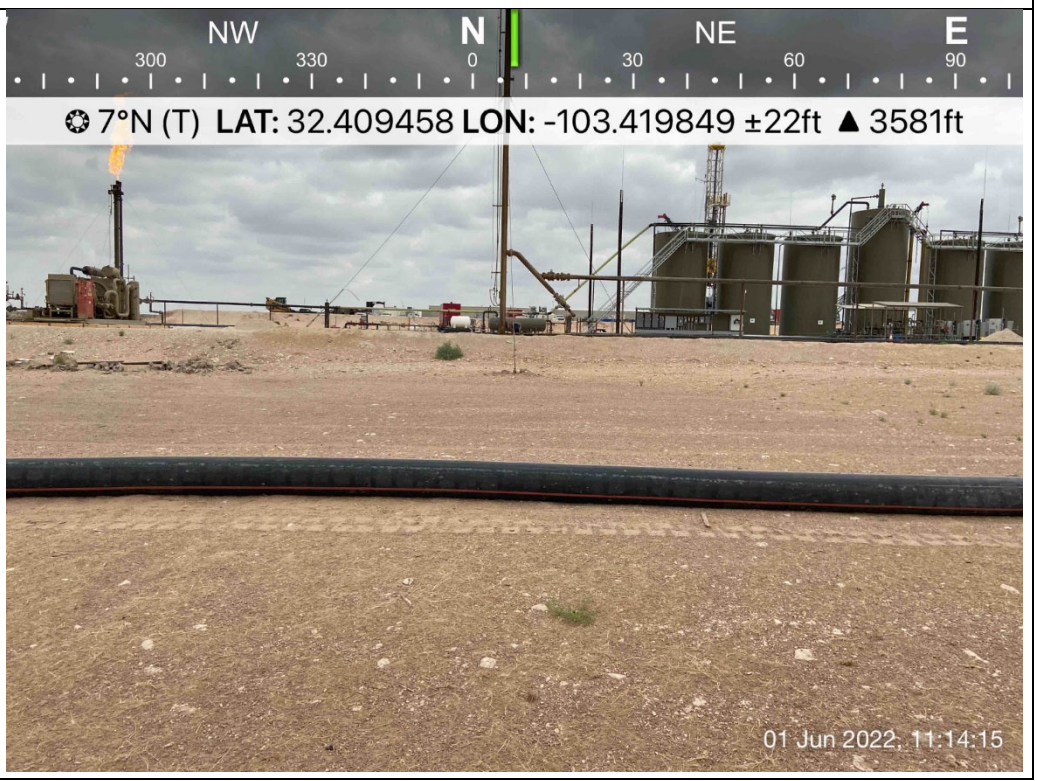
CENTENNIAL RESOURCE DEVELOPMENT, INC.
CHIMICHANGA 12 STATE COM CTB #2 501H-503H RELEASE SITE
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M				E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Limits		**10**					**50**				**100**	**600**
COMP-1 @ Surface	06/01/22	<0.00101	0.00128	0.00517	0.0242	0.0129	0.04355	226	12,200	2,610	**15,000**	205
COMP-1 @ 6"	06/01/22	<0.00103	0.00255	0.107	0.523	0.296	0.92855	1,440	11,300	1,850	**14,600**	43.5
COMP-2 @ Surface	06/01/22	<0.00100	0.00131	0.00135	0.00328	0.00144	0.007380	<25.0	114	<25.0	**114**	15.0
COMP-2 @ 6"	06/01/22	<0.00101	<0.00101	<0.00101	0.00217	<0.00101	0.00217	<25.3	73.8	<25.3	73.8	7.76
COMP-3 @ Surface	06/01/22	<0.00100	0.00116	<0.00100	0.00217	0.00108	0.00441	<25.0	<25.0	<25.0	<25.0	24.9
COMP-3 @ 6"	06/01/22	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	<0.00101	<25.3	<25.3	<25.3	<25.3	10.4

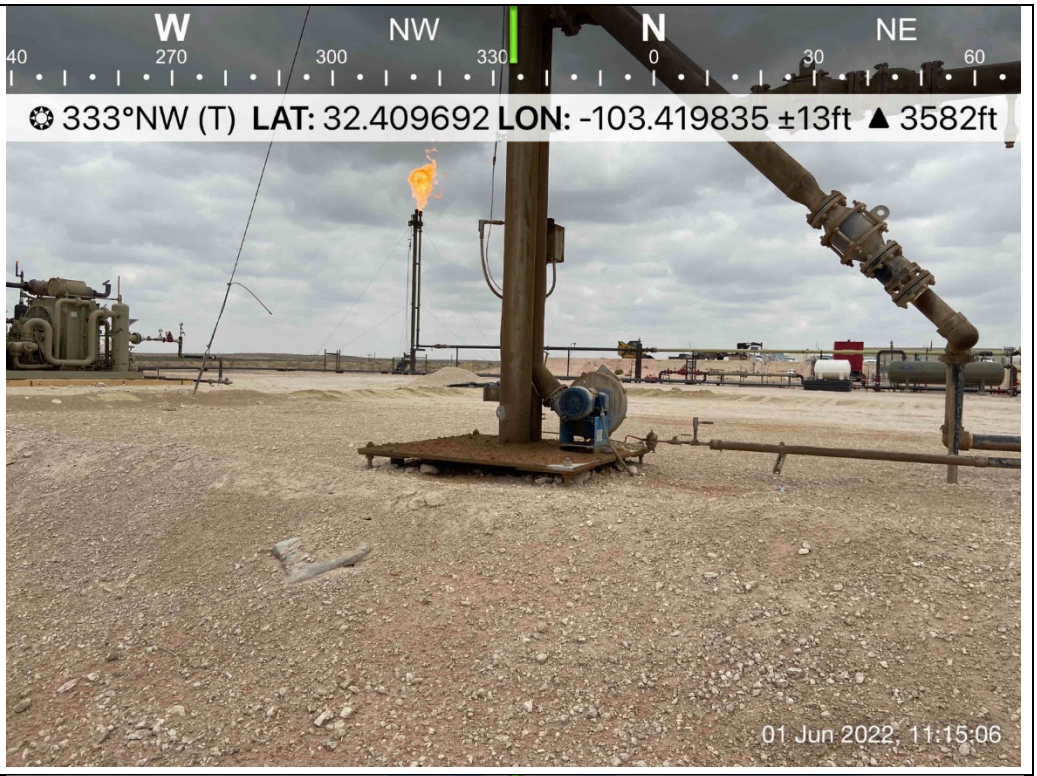
Photographic Documentation

Client: *Centennial Resources Development, LLC.* **CDEV ID #:** *00274*
Project Name: *Chimichanga* 12 State Com CTB #2 (501H – 503H) **Location:** *Loving County, NM*

Photograph No. 1 **Date:** **June 1, 2022** **Direction:** **West** **Description:** **View of impacted area.**	
Photograph No. 2 **Date:** **June 1, 2022** **Direction:** **North** **Description:** **View of impacted area.**	

Photographic Documentation

Client: *Centennial Resources Development, LLC.* **CDEV ID #:** *00274*
Project Name: *Chimichanga* 12 State Com CTB #2 (501H – 503H) **Location:** *Loving County, NM*

Photograph No. 3 **Date:** **June 1, 2022** **Direction:** **Southwest** **Description:** **View of impacted area.**	
Photograph No. 4 **Date:** **July 20, 2022** **Direction:** **Northeast** **Description:** **View of impacted area following flare removal.**	

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Matthew Green

TRC Solutions- Midland, Texas

10 Desta Dr STE 150E

Midland, TX 79705

Project: Centennial Chimichanga 12 State 501H, 502H,& 503H

Project Number: 00274

Location: Lea County, NM

Lab Order Number: 2F06001

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 06/13/22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMP-1 @ Surface	2F06001-01	Soil	06/01/22 12:20	06-03-2022 16:22
COMP-1 @ 6"	2F06001-02	Soil	06/01/22 12:22	06-03-2022 16:22
COMP-2 @ Surface	2F06001-03	Soil	06/01/22 12:23	06-03-2022 16:22
COMP-2 @ 6"	2F06001-04	Soil	06/01/22 12:25	06-03-2022 16:22
COMP-3 @ Surface	2F06001-05	Soil	06/01/22 12:28	06-03-2022 16:22
COMP-3 @ 6"	2F06001-06	Soil	06/01/22 12:31	06-03-2022 16:22

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-1 @ Surface

2F06001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Toluene	**0.00128**	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Ethylbenzene	**0.00517**	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Xylene (p/m)	**0.0242**	0.00202	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Xylene (o)	**0.0129**	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 21:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 21:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 21:22*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**205**	1.01	mg/kg dry	1	P2F0808	06/08/22 16:14	06/09/22 17:09	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**226**	126	mg/kg dry	5	P2F0703	06/07/22 13:00	06/08/22 10:46	TPH 8015M	
>C12-C28	**12200**	126	mg/kg dry	5	P2F0703	06/07/22 13:00	06/08/22 10:46	TPH 8015M	
>C28-C35	**2610**	126	mg/kg dry	5	P2F0703	06/07/22 13:00	06/08/22 10:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/08/22 10:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/08/22 10:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**15000**	126	mg/kg dry	5	[CALC]	06/07/22 13:00	06/08/22 10:46	calc	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-1 @ 6"

2F06001-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Toluene	**0.00255**	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Ethylbenzene	**0.107**	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Xylene (p/m)	**0.523**	0.00206	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Xylene (o)	**0.296**	0.00103	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*131 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:26*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**43.5**	1.03	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 02:41	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1440**	129	mg/kg dry	5	P2F0703	06/07/22 13:00	06/07/22 18:26	TPH 8015M	
>C12-C28	**11300**	129	mg/kg dry	5	P2F0703	06/07/22 13:00	06/07/22 18:26	TPH 8015M	
>C28-C35	**1850**	129	mg/kg dry	5	P2F0703	06/07/22 13:00	06/07/22 18:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.7 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*144 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:26*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**14600**	129	mg/kg dry	5	[CALC]	06/07/22 13:00	06/07/22 18:26	calc	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-2 @ Surface

2F06001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Toluene	**0.00131**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Ethylbenzene	**0.00135**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Xylene (p/m)	**0.00328**	0.00200	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Xylene (o)	**0.00144**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 22:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*119 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 22:48*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.0**	1.00	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 02:56	EPA 300.0	
% Moisture	ND	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 18:49	TPH 8015M	
>C12-C28	**114**	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 18:49	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 18:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.3 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 18:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**114**	25.0	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 18:49	calc	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-2 @ 6"

2F06001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Xylene (p/m)	**0.00217**	0.00202	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*120 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:09*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.76**	1.01	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 03:11	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:12	TPH 8015M	
>C12-C28	**73.8**	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:12	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.7 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.7 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**73.8**	25.3	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 19:12	calc	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-3 @ Surface

2F06001-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Toluene	**0.00116**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Xylene (p/m)	**0.00217**	0.00200	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Xylene (o)	**0.00108**	0.00100	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:30*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**24.9**	1.00	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 03:26	EPA 300.0	
% Moisture	ND	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:35	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:35	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.8 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 19:35	calc	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

COMP-3 @ 6"

2F06001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2F0603	06/06/22 10:55	06/06/22 23:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*116 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.9 %*	*80-120*		*P2F0603*	*06/06/22 10:55*	*06/06/22 23:51*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.4**	1.01	mg/kg dry	1	P2F1006	06/10/22 13:33	06/11/22 03:40	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2F0706	06/07/22 13:37	06/07/22 13:39	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:57	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:57	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2F0703	06/07/22 13:00	06/07/22 19:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.9 %*	*70-130*		*P2F0703*	*06/07/22 13:00*	*06/07/22 19:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/07/22 13:00	06/07/22 19:57	calc	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0603 - General Preparation (GC)										
Blank (P2F0603-BLK1)				Prepared & Analyzed: 06/06/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.142*		*"*	*0.120*		*118*	*80-120*			
LCS (P2F0603-BS1)				Prepared & Analyzed: 06/06/22						
Benzene	0.0844	0.00100	mg/kg	0.100		84.4	80-120			
Toluene	0.0824	0.00100	"	0.100		82.4	80-120			
Ethylbenzene	0.0904	0.00100	"	0.100		90.4	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.6	80-120			
Xylene (o)	0.0860	0.00100	"	0.100		86.0	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.149*		*"*	*0.120*		*124*	*80-120*			*S-GC*
LCS Dup (P2F0603-BSD1)				Prepared & Analyzed: 06/06/22						
Benzene	0.0898	0.00100	mg/kg	0.100		89.8	80-120	6.27	20	
Toluene	0.0884	0.00100	"	0.100		88.4	80-120	7.06	20	
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	80-120	7.38	20	
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120	6.76	20	
Xylene (o)	0.0919	0.00100	"	0.100		91.9	80-120	6.63	20	
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.148*		*"*	*0.120*		*123*	*80-120*			*S-GC*
Calibration Blank (P2F0603-CCB1)				Prepared & Analyzed: 06/06/22						
Benzene	0.130		ug/kg							
Toluene	0.330		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.370		"							
Xylene (o)	0.240		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.140*		*"*	*0.120*		*117*	*80-120*			

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0603 - General Preparation (GC)										
Calibration Blank (P2F0603-CCB2)				Prepared & Analyzed: 06/06/22						
Benzene	0.150		ug/kg							
Toluene	0.240		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.340		"							
Xylene (o)	0.180		"							
Surrogate: 1,4-Difluorobenzene	*0.109*		*"*	*0.120*		*90.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		*"*	*0.120*		*113*	*80-120*			
Calibration Check (P2F0603-CCV1)				Prepared & Analyzed: 06/06/22						
Benzene	0.102	0.00100	mg/kg	0.102		99.6	80-120			
Toluene	0.0997	0.00100	"	0.102		97.7	80-120			
Ethylbenzene	0.100	0.00100	"	0.102		98.2	80-120			
Xylene (p/m)	0.211	0.00200	"	0.204		103	80-120			
Xylene (o)	0.104	0.00100	"	0.102		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.143*		*"*	*0.120*		*119*	*75-125*			
Calibration Check (P2F0603-CCV2)				Prepared & Analyzed: 06/06/22						
Benzene	0.111	0.00100	mg/kg	0.102		109	80-120			
Toluene	0.104	0.00100	"	0.102		102	80-120			
Ethylbenzene	0.105	0.00100	"	0.102		103	80-120			
Xylene (p/m)	0.218	0.00200	"	0.204		107	80-120			
Xylene (o)	0.113	0.00100	"	0.102		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.147*		*"*	*0.120*		*122*	*75-125*			
Calibration Check (P2F0603-CCV3)				Prepared: 06/06/22 Analyzed: 06/07/22						
Benzene	0.115	0.00100	mg/kg	0.102		113	80-120			
Toluene	0.112	0.00100	"	0.102		110	80-120			
Ethylbenzene	0.110	0.00100	"	0.102		108	80-120			
Xylene (p/m)	0.227	0.00200	"	0.204		111	80-120			
Xylene (o)	0.116	0.00100	"	0.102		113	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.142*		*"*	*0.120*		*118*	*75-125*			

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0603 - General Preparation (GC)										
Matrix Spike (P2F0603-MS1)	**Source: 2F03013-01**			Prepared: 06/06/22 Analyzed: 06/07/22						
Benzene	0.0649	0.00101	mg/kg dry	0.101	ND	64.2	80-120			QM-05
Toluene	0.217	0.00101	"	0.101	0.262	NR	80-120			QM-05
Ethylbenzene	0.469	0.00101	"	0.101	1.31	NR	80-120			QM-05
Xylene (p/m)	1.18	0.00202	"	0.202	4.42	NR	80-120			QM-05
Xylene (o)	0.622	0.00101	"	0.101	1.95	NR	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.147*		*"*	*0.121*		*121*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.121*		*104*	*80-120*			
Matrix Spike Dup (P2F0603-MSD1)	**Source: 2F03013-01**			Prepared: 06/06/22 Analyzed: 06/07/22						
Benzene	0.0685	0.00101	mg/kg dry	0.101	ND	67.8	80-120	5.36	20	QM-05
Toluene	0.207	0.00101	"	0.101	0.262	NR	80-120	NR	20	QM-05
Ethylbenzene	0.440	0.00101	"	0.101	1.31	NR	80-120	NR	20	QM-05
Xylene (p/m)	1.12	0.00202	"	0.202	4.42	NR	80-120	NR	20	QM-05
Xylene (o)	0.586	0.00101	"	0.101	1.95	NR	80-120	NR	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.121*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.141*		*"*	*0.121*		*117*	*80-120*			

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0706 - * DEFAULT PREP *** **										
Blank (P2F0706-BLK1)				Prepared & Analyzed: 06/07/22						
% Moisture	ND	0.1	%							
Duplicate (P2F0706-DUP1)		**Source: 2F06001-06**		Prepared & Analyzed: 06/07/22						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P2F0706-DUP2)		**Source: 2F07001-02**		Prepared & Analyzed: 06/07/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P2F0808 - * DEFAULT PREP *** **										
Calibration Blank (P2F0808-CCB2)				Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	-0.0290		mg/kg							
Calibration Check (P2F0808-CCV2)				Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	19.8		mg/kg	20.0		99.2	90-110			
Calibration Check (P2F0808-CCV3)				Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	19.6		mg/kg	20.0		98.0	90-110			
Matrix Spike (P2F0808-MS1)		**Source: 2F03008-08**		Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	17000	52.1	mg/kg dry	2600	14400	102	80-120			
Matrix Spike (P2F0808-MS2)		**Source: 2F03009-08**		Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	19700	55.6	mg/kg dry	2780	16500	117	80-120			
Matrix Spike Dup (P2F0808-MSD1)		**Source: 2F03008-08**		Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	16500	52.1	mg/kg dry	2600	14400	82.1	80-120	3.08	20	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0808 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2F0808-MSD2)	**Source: 2F03009-08**			Prepared: 06/08/22 Analyzed: 06/09/22						
Chloride	20100	55.6	mg/kg dry	2780	16500	130	80-120	1.90	20	QM-05
Batch P2F1006 - * DEFAULT PREP *** **										
Blank (P2F1006-BLK1)				Prepared & Analyzed: 06/10/22						
Chloride	ND	1.00	mg/kg							
LCS (P2F1006-BS1)				Prepared & Analyzed: 06/10/22						
Chloride	38.4		mg/kg	40.0		96.0	90-110			
LCS Dup (P2F1006-BSD1)				Prepared & Analyzed: 06/10/22						
Chloride	38.2		mg/kg	40.0		95.5	90-110	0.520	10	
Calibration Check (P2F1006-CCV1)				Prepared & Analyzed: 06/10/22						
Chloride	19.3		mg/kg	20.0		96.6	90-110			
Calibration Check (P2F1006-CCV2)				Prepared: 06/10/22 Analyzed: 06/11/22						
Chloride	19.2		mg/kg	20.0		96.2	90-110			
Matrix Spike (P2F1006-MS1)	**Source: 2F09029-24**			Prepared & Analyzed: 06/10/22						
Chloride	5680	10.6	mg/kg dry	532	4950	136	80-120			QM-05
Matrix Spike (P2F1006-MS2)	**Source: 2F09029-31**			Prepared: 06/10/22 Analyzed: 06/11/22						
Chloride	4570	11.0	mg/kg dry	549	3570	181	80-120			QM-05
Matrix Spike Dup (P2F1006-MSD1)	**Source: 2F09029-24**			Prepared & Analyzed: 06/10/22						
Chloride	5420	10.6	mg/kg dry	532	4950	88.0	80-120	4.60	20	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F1006 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2F1006-MSD2)		**Source: 2F09029-31**		Prepared: 06/10/22 Analyzed: 06/11/22						
Chloride	4100	11.0	mg/kg dry	549	3570	95.7	80-120	10.8	20	

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0703 - TX 1005										
Blank (P2F0703-BLK1)				Prepared & Analyzed: 06/07/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*99.9*		*"*	*100*		*99.9*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
LCS (P2F0703-BS1)				Prepared & Analyzed: 06/07/22						
C6-C12	866	25.0	mg/kg	1000		86.6	75-125			
>C12-C28	973	25.0	"	1000		97.3	75-125			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*55.4*		*"*	*50.0*		*111*	*70-130*			
LCS Dup (P2F0703-BSD1)				Prepared & Analyzed: 06/07/22						
C6-C12	901	25.0	mg/kg	1000		90.1	75-125	3.94	20	
>C12-C28	988	25.0	"	1000		98.8	75-125	1.58	20	
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*54.1*		*"*	*50.0*		*108*	*70-130*			
Calibration Check (P2F0703-CCV1)				Prepared & Analyzed: 06/07/22						
C6-C12	495	25.0	mg/kg	500		99.1	85-115			
>C12-C28	530	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*55.2*		*"*	*50.0*		*110*	*70-130*			
Calibration Check (P2F0703-CCV2)				Prepared & Analyzed: 06/07/22						
C6-C12	438	25.0	mg/kg	500		87.5	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*50.1*		*"*	*50.0*		*100*	*70-130*			

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0703 - TX 1005										
Calibration Check (P2F0703-CCV3)				Prepared & Analyzed: 06/07/22						
C6-C12	486	25.0	mg/kg	500		97.1	85-115			
>C12-C28	475	25.0	"	500		95.0	85-115			
Surrogate: 1-Chlorooctane	*124*		"	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*54.8*		"	*50.0*		*110*	*70-130*			
Matrix Spike (P2F0703-MS1)		**Source: 2F07002-01**		Prepared & Analyzed: 06/07/22						
C6-C12	812	25.5	mg/kg dry	1020	ND	79.6	75-125			
>C12-C28	954	25.5	"	1020	360	58.2	75-125			QM-05
Surrogate: 1-Chlorooctane	*121*		"	*102*		*119*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		"	*51.0*		*92.0*	*70-130*			
Matrix Spike Dup (P2F0703-MSD1)		**Source: 2F07002-01**		Prepared & Analyzed: 06/07/22						
C6-C12	788	25.5	mg/kg dry	1020	ND	77.2	75-125	3.04	20	
>C12-C28	1420	25.5	"	1020	360	104	75-125	56.6	20	QM-05
Surrogate: 1-Chlorooctane	*119*		"	*102*		*116*	*70-130*			
Surrogate: o-Terphenyl	*46.1*		"	*51.0*		*90.4*	*70-130*			

TRC Solutions- Midland, Texas	Project: Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number: 00274
Midland TX, 79705	Project Manager: Matthew Green

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/13/2022

Brent Barron, Laboratory Director/Technical Director

TRC Solutions- Midland, Texas	Project:	Centennial Chimichanga 12 State 501H, 502H,& 503H
10 Desta Dr STE 150E	Project Number:	00274
Midland TX, 79705	Project Manager:	Matthew Green

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Matt Green

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive Suite 130E

City/State/Zip: Midland,TX 79705

Telephone No: (432)520-7720 Fax No:

Sampler Signature: Matthew Green

e-mail: mgreen@trccompanies.com
nikki.mishler@cdevinc.com

Project Name: Centennial Chimichanga 12 State 501H, 502H, & 503H

Project #: ~00274

Project Loc: Lea County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 2F060001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M	TOTAL: TPH: 8015B / TX 1005 Ext / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	COMP-1 @ Surface			6/1/2022	12:20		1	x								S	X								X			X				x
2	COMP-1 @ 6"			6/1/2022	12:22		1	x								S	X								X			X				x
3	COMP-2 @ Surface			6/1/2022	12:23		1	x								S	X								X			X				x
4	COMP-2 @ 6"			6/1/2022	12:25		1	x								S	X								X			X				x
5	COMP-3 @ Surface			6/1/2022	12:28		1	x								S	X								X			X				x
6	COMP-3 @ 6"			6/1/2022	12:31		1	x								S	X								X			X				x

Special Instructions:

Relinquished by: Matt Green	Date 6-3-22	Time	Received by:	Date	Time
Relinquished by:	Date 6/3/22	Time 16:22	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date 6/3/22	Time 16:22

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt:
Received: 4.2 °C
Adjusted: 5.2 °C Factor CF +1

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes		Notes
✓	Chain of custody present?	
|	Chain of custody signed/dated/time when relinquished and received?	
|	Sample date/time present on COC for all samples?	
|	Samplers name present on COC?	
|	Chain of Custody agrees with sample labels?	
|	Sample containers intact?	
X	Custody seals intact on sample bottles?	
✓	Samples in proper container/bottle?	
|	Sufficient sample volume for indicated test?	
|	All samples received within holding time?	
|	Samples received within appropriate temp?	5.2
|	Analysis requested for all samples submitted?	
|	Shipping container/cooler in good condition?	
|	Custody seals intact on shipping container/cooler?	

Login Notes:
4oz 2F06001

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

Resolution:

Client Contacted
Name:
Date/Time:

NC Initiated by:__________ Approved by:__________

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 145468

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 145468
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	9/26/2022