APPROVED
By Olivia Yu at 3:15 pm, Dec 29, 2017

Trinity Oilfield Services & Rentals, LLC

NMOCD approves of the proposed delineation plan for 1RP-4855.

Delineation Plan

Company: Cambrian Management **Address:** P.O. Box 272, Midland, TX 79702 **Telephone #:** (432) 631-4398

Site Name: Kaiser State SWD **NMOCD Reference#:** 1RP-4855

Surface Owner: State of New Mexico **Mineral Owner:** State of New Mexico

Unit Letter: "F" (SE/NW) **Section:** 13 **Township:** 21S **Range:** 34E **County:** Lea **GPS Coordinates:** 32.480938 N -103.425227 W

Depth to Ground Water: 165' **Distance to Surface Water Body:** ☐ <200' ☐ 200' - 1,000' ☑ >1,000'

Wellhead Protection Area: <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☑ N

NMOCD Ranking Score: 10 **Soil Remediation Levels (mg/kg): Benzene:** 10 **BTEX:** 50 **TPH:** ☐ 100 ☐ 1,000 ☒ 5,000 **Chloride:** ☐ 250 ☒ 600

Date/Time of Release: Unknown **Type of Release:** Produced Water & Crude Oil **Approximate Volume of Release:** 50 bbls

Background Information:

On October 18, 2017, Cambrian Management (Cambrian) discovered a release at the Kaiser State Salt Water Disposal (SWD). The cause of the release remains undetermined. A preliminary site investigation indicated that approximately 50 barrels (bbls) of crude oil and produced water were released, with no recovery. The release was confined to the primary and secondary earthern containment berms surrounding the tank battery. The affected area inside the berms measured approximately 7,200 square feet.

A "Release Notification & Corrective Action" form (C-141) was submitted to the NMOCD on October 23, 2017, and is provided as Appendix A. General photographs of the release site are provided in Appendix B. A "Site Location Map" is provided as Figure 1.

Proposed Activities:

A series of hand-augered soil borings will be advanced at the site to investigate the vertical extent of impacted soil inside the unlined secondary containment area surrounding the tank battery. The auger holes will be spaced at approximate 50-foot horizontal intervals, in a grid-like pattern (see Figure 2, "Proposed Delineation Map"). Soil samples will be collected at 6-inch to 1-foot vertical intervals from each borehole and field-screened with a chloride test kit and/or photo-ionization detector (PID). The auger holes will be advanced vertically until field-screens and/or olfactory/visual senses suggest contaminants of concern are below the recommended remediation action levels established for the site by the NMOCD, or to a maximum depth of 12 feet below ground surface. Representative soil samples will be submitted to an NMOCD-approved laboratory for confirmatory analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and/or chloride using Environmental Protection Agency Methods SW 846-8021b, SW 846-8015M, and 300, respectively.

Impacted soil atop the plastic liner in the primary containment area will be hand-excavated and hauled to an NMOCD-permitted facility for disposal. The liner will then be inspected for holes, tears, and other damage. Should it be determined that the liner has been breeched, the compromised section(s) will be removed, and additional auger holes will be advanced to determine the extent of impacted soil using the methodology described above.

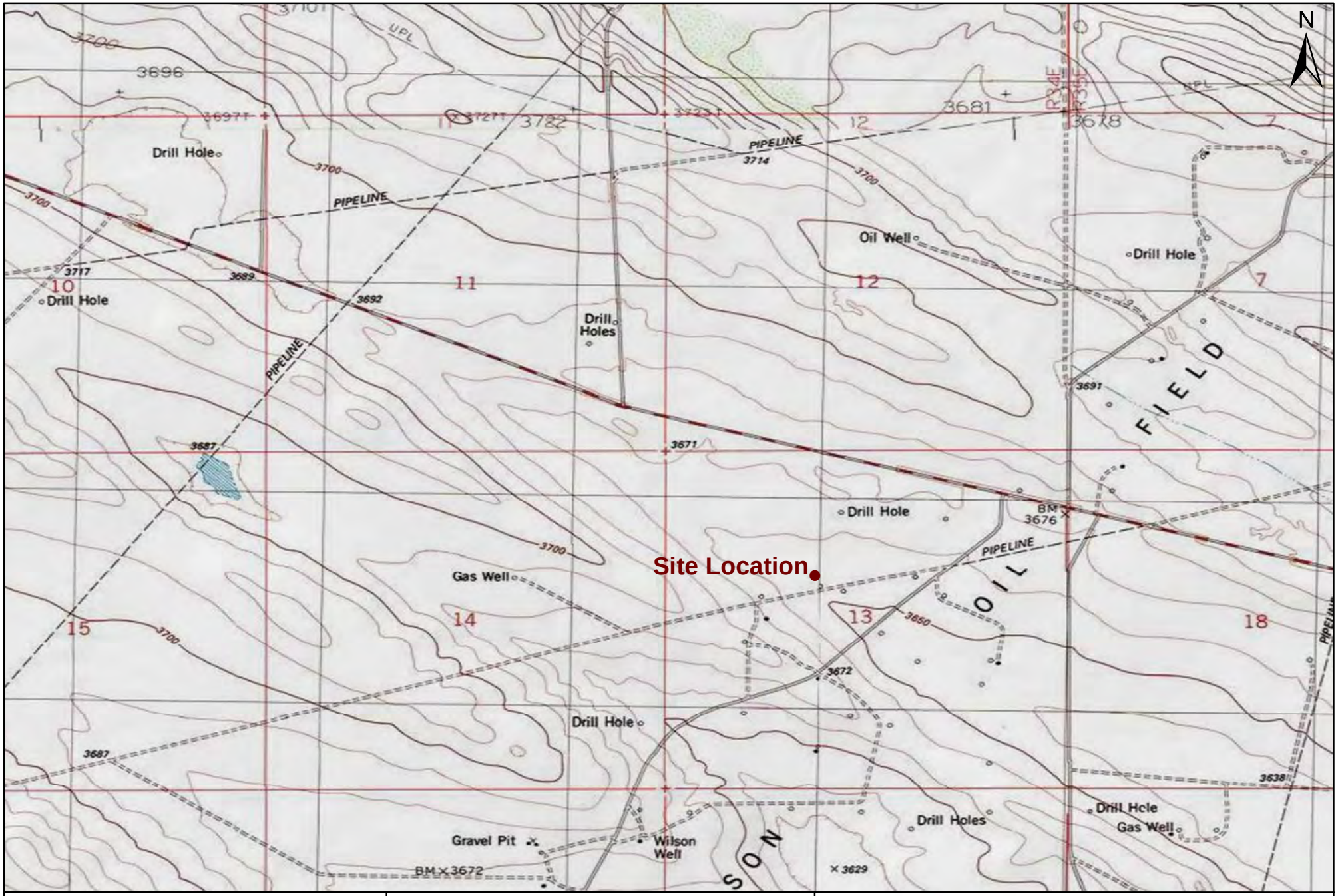
Upon receipt of laboratory analytical results from the delineation event(s), an "Environmental Site Summary & Remediation Proposal" (Work Plan) will be developed, outlining an appropriate soil remediation strategy for the site. The Work Plan will be submitted to both the NMOCD and NMSLO for review and approval prior to conducting any excavation activities.

Enclosures:

Figure 1: Site Location Map
Figure 2: Proposed Delineation Map
Appendix A: Release Notification & Corrective Action (Form C-141)
Appendix B: Depth-to-Groundwater Data
Appendix C: Photographs

12/4/2017
Ben J. Arguijo
Project Manager

Figures



2,000 1,000 0 2,000

Distance in Feet

Figure 1
Site Location Map
Cambrian Management
Kaiser State SWD
Lea County, New Mexico
NMOCD Reference #: 1RP-4855

TRINITY OILFIELD SERVICES

Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
December 1, 2017	Scale: 1" = 2,000'

20 10 0 20 40

Distance in Feet

Legend:

Proposed Sample Location

Figure 2
Proposed Delineation Map
Cambrian Management
Kaiser State SWD
Lea County, New Mexico
NMOCD Reference #: 1RP-4855

TRINITY OILFIELD SERVICES

Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
December 1, 2017	Scale: 1" = 40'

Tables

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, 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-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company Cambrian Management, Ltd.	Contact Mike Anthony
Address P.O. Box 272, Midland, TX 79702	Telephone No. (432)631-4398
Facility Name Kaiser State SWD	Facility Type Salt Water Disposal

Surface Owner State	Mineral Owner State	API No. 30-025-02538

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	13	21S	34E					Lea

Latitude 32.48008578 **Longitude** -103.4256592 NAD83

NATURE OF RELEASE

Type of Release Produced Water & Crude Oil	Volume of Release 50 bbls	Volume Recovered 0 bbls
Source of Release Unknown	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10/18/2017, 12:35 PM
Was Immediate Notice Given? ☐ Yes ☑ No ☐ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 4:17 pm, Oct 27, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The cause of the release is undetermined and is currently under investigation. No remedial action has been taken at this point.

Describe Area Affected and Cleanup Action Taken.*

The release was confined to the primary and secondary earthen containment berms surrounding the SWD battery. The affected area inside the berms measured approximately 7,200 sq. ft. Remediation of the impacted area will be conducted in accordance with NMOCD and NMSLO guidelines.

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

Signature: Denise Jones
Denise Jones- Regulatory Analyst

Printed Name: Todd Roberson (as agent of Cambrian Mgmt.)

Title: Owner

E-mail Address: todd@trinityoilfieldservices.com

Date: 10/23/2017 Phone: (575) 631-3129

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: gy

Approval Date: 10/27/2017 Expiration Date:

Conditions of Approval: see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4855 nOY1730058924 pOY1730059151

Appendix B

Depth-to-Groundwater Dat**a**

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00089	O	CP	LE		2	1	13	21S	34E	647840	3594615	238	235		
CP 00939 POD1		CP	LE	4	1	2	07	21S	35E	649974	3596760*	2804	400	165	235
CP 00940 POD1		CP	LE	4	1	2	07	21S	35E	649974	3596760*	2804	400	165	235

Average Depth to Water: **165 feet**

Minimum Depth: **165 feet**

Maximum Depth: **165 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 647937 **Northing (Y):** 3594833 **Radius:** 3000

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix C

Photographs

Kaiser State SWD – Release Site (Looking Southeast)

Kaiser State SWD – Release Site (Looking Northeast)

Kaiser State SWD – Release Site (Looking East-Northeast)

Kaiser State SWD – Release Site (Looking East)

Kaiser State SWD – Release Site (Looking Southeast)

Kaiser State SWD - Release Site (Looking East)

Kaiser State SWD – Release Site (Looking Northeast)

Kaiser State SWD - Release Site (Looking North-Northeast)

Kaiser State SWD – Release Site (Looking Southeast)

Kaiser State SWD – Release Site (Looking East)

Kaiser State SWD – Release Site (Looking Southeast)

Kaiser State SWD – Release Site (Looking Northeast)

Kaiser State SWD – Release Site (Looking South)

Kaiser State SWD – Release Site (Looking East)

Kaiser State SWD – Release Site (Looking Southeast)

Kaiser State SWD – Release Site (Looking South)

Kaiser State SWD – Release Site (Looking West)

Kaiser State SWD – Release Site (Looking South-Southwest)