

Trinity Oilfield Services & Rentals, LLC

Delineation Plan



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

Site Name: Dorstate SWD NMOCD Reference#: 2RP-4364

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

Unit Letter: H (SE/NE) Section: 27 Township: 25S Range: 28E County: Eddy GPS Coordinates: 32.102684 N -104.068565 W

Depth to Ground Water: 60' - 65' 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 Chloride: 250
 1,000 500
 5,000 1,000

Date/Time of Release: Unknown Type of Release: Produced Water Approximate Volume of Release: See Below

Background Information:

On August 23, 2017, a representative of the New Mexico State Land Office (NMSLO) notified Cambrian Management (Cambrian) and the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office via email that a release (or series of releases) had occurred at the Dorstate Salt Water Disposal (SWD). It was determined that driver inattention and excess rainwater had caused the on-site sumps to overflow, resulting in the release of approximately 25 barrels of produced water. The release may have commingled with unrelated historical releases that occurred prior to the operation of the site by Cambrian. Based on a preliminary environmental site assessment, the releases impacted a portion of the SWD pad, access road, and adjacent pastureland. Impacted areas are present within a total area measuring approximately 210,000 square feet.

A "Release Notification & Corrective Action" form (C-141) was submitted to the NMOCD on August 24, 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 delineation trenches will be advanced to investigate the vertical and horizontal extent of impacted soil. The trenches will be spaced at approximate 75-foot horizontal intervals, in a grid-like pattern, and will be located on the Dorstate SWD pad, along the caliche access road, and in the adjacent pastureland to the east and northeast of the facility. The trenches will be advanced in 1- to 2-foot vertical intervals, and soil samples collected from the floors of the trenches will be field-screened with a chloride test kit and/or photo-ionization detector (PID). The trenches will be advanced until field-screens suggest contaminants of concern are below the recommended remediation action levels established for the site by the NMOCD or to a maximum depth of 15 feet below ground surface. Selected 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 chloride using Environmental Protection Agency Methods SW 846-8021b, SW 846-8015M, and 300, respectively.

The locations of the proposed delineation trenches are depicted in Figure 2, "Proposed Delineation Map".

Upon receipt of laboratory analytical results from the delineation event, 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.

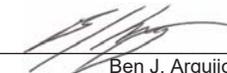
Enclosures:

Figure 1: Site Location Map

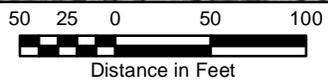
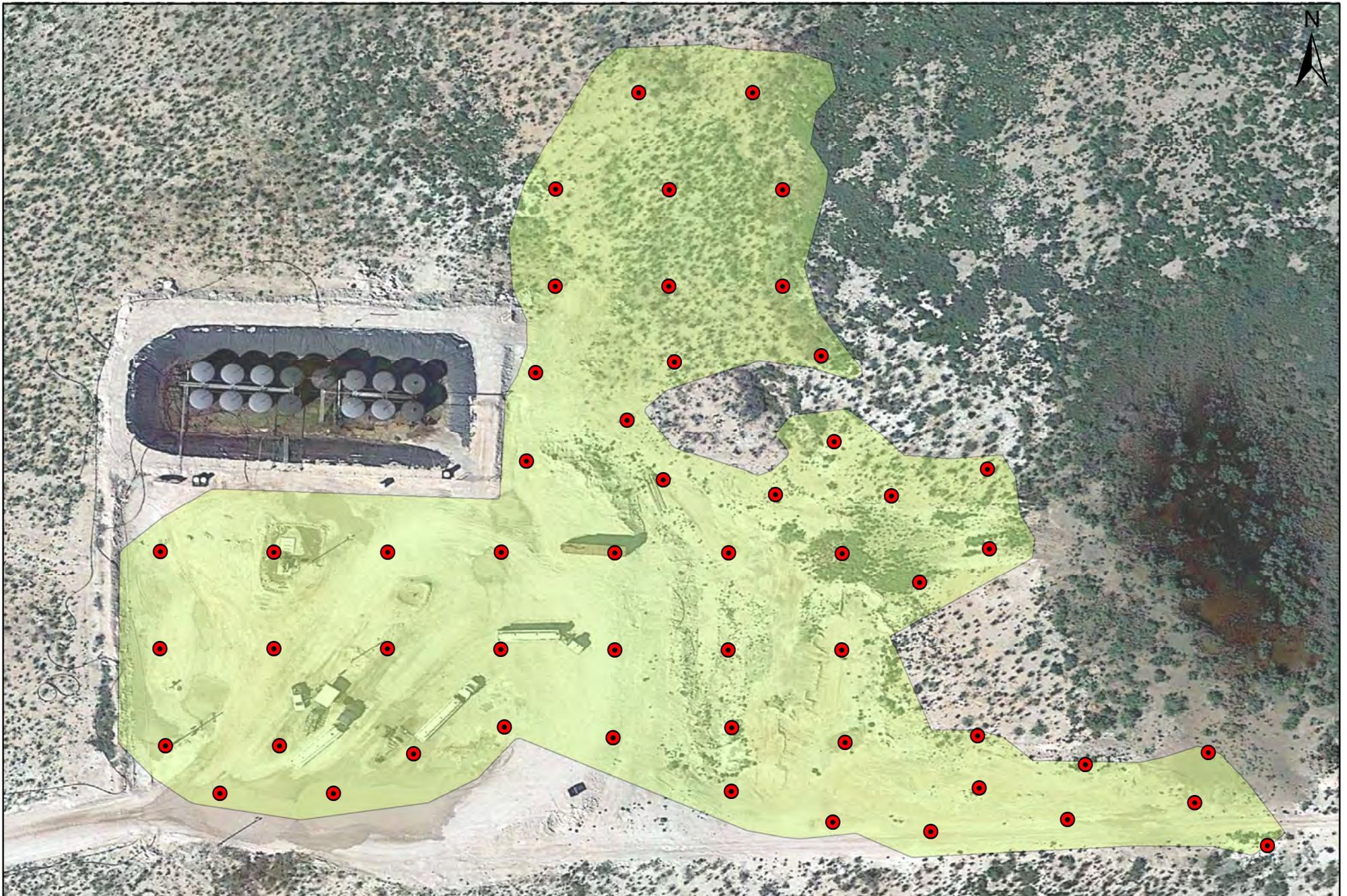
Figure 2: Proposed Delineation Map

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs

 10/16/2017
Ben J. Arguijo
Project Manager

Figures



Legend

- Stained Area
- Proposed Sample Location

Figure 2
Proposed Delineation Map
Cambrian Management
Dorstate SWD
Eddy County, New Mexico
NMOCD Reference #: 2RP-4364



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

| | |
|-----------------|------------------|
| Drawn By: BJA | Checked By: CTR |
| October 5, 2017 | Scale: 1" = 100' |

Appendices

Appendix A
Release Notification &
Corrective Action (Form C-141)

NM OIL CONSERVATION

ARTESIA DISTRICT

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

AUG 29 2017

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

NAB1724135283

198688 OPERATOR

Initial Report Final Report

| | | |
|--|-----------------------------------|-----------------------------|
| Name of Company <u>Cambrian Management, Ltd.</u> | Contact <u>Mike Anthony</u> | |
| Address <u>PO Box 972, Midland, TX 79702</u> | Telephone No. <u>432-631-4398</u> | |
| Facility Name <u>Dacstate SWD</u> | Facility Type <u>SWD</u> | |
| Surface Owner | Mineral Owner | API No. <u>30-015-2372R</u> |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|-----------|------------|------------|---------------|------------------|---------------|----------------|-------------|
| <u>H</u> | <u>27</u> | <u>25S</u> | <u>28E</u> | <u>1980</u> | <u>North</u> | <u>660</u> | <u>East</u> | <u>Eddy</u> |

Latitude 32.109684 Longitude 104.068565 NAD83

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release <u>Water, Produced Water</u> | Volume of Release <u>25 bbls</u> | Volume Recovered <u>0</u> |
| Source of Release | Date and Hour of Occurrence | Date and Hour of Discovery <u>8-23-17</u> |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | <u>0:04 PM</u> |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Overflowing bumps due to truck drivers inattention and excess rainwater.
We will get soil samples and Trinity Environmental and proceed with proper remediation and cleanup

Describe Area Affected and Cleanup Action Taken.*
Pasture land and SWD location

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: <u>Denise Jones</u> | OIL CONSERVATION DIVISION | |
| Printed Name: <u>Denise Jones</u> | Signed By: <u>[Signature]</u> Approved by Environmental Specialist: | |
| Title: <u>Regulatory Analyst</u> | Approval Date: <u>8/29/17</u> | Expiration Date: <u>N/A</u> |
| E-mail Address: <u>djones@cambrianmgmt.com</u> | Conditions of Approval: <u>See attached</u> | |
| Date: <u>8-24-17</u> Phone: <u>432-620-9181</u> | Attached: <u>SRP-4B6A</u> | |

* Attach Additional Sheets If Necessary

Appendix B

Photographs



Dorstate SWD - Release Site (Looking Northwest)



Dorstate SWD - Release Site (Looking North-Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North-Northwest)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking West)



Dorstate SWD – Release Site (Looking West)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Southwest)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)