

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

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: MorningStar Operating OGRID #: 330132
 Address: 400 W 7Th Street, Fort Worth, TX 76109
 Facility or well name: Midway State #001
 API Number: 30-025-22794 OCD Permit Number: P1-04581
 U/L or Qtr/Qtr F Section 12 Township 17S Range 36E County: Lea
 Center of Proposed Design: Latitude 32.8504486 Longitude -103.309082 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 _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
 Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

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 H₂S, 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Joel Stone Approval Date: 07/31/2025

Title: Environmental Scientist & Specialist-A OCD Permit Number: Pit Number 1

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: 06/13/2025

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 32.8504486 Longitude -103.309082 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): Samanntha Avarello Title: EHS Coordinator

Signature: Samanntha Avarello Date: 07/28/2025

e-mail address: savarello@txopartners.com Telephone: 817-334-7747



McNabb Partners, LLC
Hobbs • Carlsbad • Midland
575.397.0050
www.mcnabbpartnersllc.com

July 24, 2025

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

RE: Temporary Workover Pit Closure Report
Midway State #001
Well API: 30-025-22794
Lat/Long: 32.8504486, -103.309082
Permit Number: P1-04581
Unit/Township/Range/Section: UL F, Sec. 12, T17S, R36E.

NMOCD:

On behalf of MorningStar Operating, LLC, McNabb Partners, LLC have prepared this closure report as an attachment to the closure form C-144 for a temporary workover pit (Permit Number: P1-04581) located at the Midway State #001 well site location. This report includes site assessment, remediation actions, confirmation sampling activities and reclamation activities conducted at the Midway State #001 well site and the legacy reserve pit.

1. Temporary Workover Pit Initial Review

Prior to the start of all reclamation & remediation activities on site, a review of the initial permit pit application and the historical satellite imagery was conducted. The permit application P1-04581 was filed by Chevron Midcontinent, L.P. on May 14, 2012. The permit application has included the design plan, operating and maintenance plan, and a closure plan for a temporary closed-loop workover pit. All waste fluids were to be removed and disposed of at Controlled Recovery, Inc (Disposal Facility Permit Number: R9166-NM-01-0006), which is now known as R360 Halfway Disposal and Landfill (Facility ID: fEEM0112334510).

Due to the poor scan quality, the design scheme of the workover pit cannot be recovered and therefore all measurements and technical specifications of the reverse unit used during the workover are unknown.

The operation and maintenance plan stated that all recovered fluids and solids will be discharged into reverse tank; Reverse tank will be continuously monitored by a designated rep, as reverse tank will run in overflow; Rig crew will visually inspect fluid integrity of reverse tank and frac tanks

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on a daily basis; Documentation of visual inspection of reverse tank and frac tanks will be captured on daily completion morning report.

The closure plan stated that all recovered fluids and solids will be removed from the reverse tank and hauled off-site for disposal at a suitable waste disposal facility; any remaining frac fluids and frac tanks will be hauled off location.

The historical imagery from Google Earth only shows the workover rig visible on the satellite view from 11/02/2017. The first historical imagery after the 2012 permit pit application is dated 02/13/2014 and there are no signs that any fluids or equipment were left on site following the workover.



Fig. 1. Workover rig in 2017.



Fig. 2. The location after the 2012 workover.

The well has been plugged on 01/26/2025 and the steel dry hole marker was installed with the operator's name, well API, township and range legal description, and all necessary information per 19.15.25.10 NMAC.

2. Siting Criteria

Based on a review of the USGS and OSE groundwater database, there are 5 known groundwater sources within ½-mile of the site. The nearest OSE well with a recorded depth-to-groundwater within last 25 years (L-00379, drilled in 1949; total depth – 74 feet, depth-to-water – 70 feet as gauged on 03/24/2025) is located 0.4 miles north of the site location. The nearest USGS monitoring well 325103103182501 has a recorded groundwater depth of 75.10 feet and the total depth of 110 feet as measured on 12/22/2010. All boring logs and plugging reports are attached to this report

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The location of OSE boring L-06395 was not confirmed in the field. Per NMOSE map, this well was drilled in 1968 and located approximately 400 feet northeast of the reclamation area. There is no indication of active fresh water well at the given location. As such, the site is over 1,000 feet from a freshwater well or spring.

The site is located more than 200 feet from a lakebed, sinkhole, or playa lake, and over 300 feet from any occupied residence, school, hospital, institution, church, or wetland, and is not within a 100-year floodplain or above a subsurface mine. The site is located within a low karst potential geological area.

As a depth to water is between 51 and 1000 feet below ground surface (ft bgs) within a ½-mile radius of the site, the site location has been remediated and reclaimed to the following closure criteria:

DTW – 75 feet bgs	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
19.15.29.13 Restoration, Reclamation and Revegetation (0 - 4 feet)	600	--	100	10	50
19.15.29.12 Remediation (> 4 feet)	10,000	1,000	2,500	10	50

As a part of site characterization for remediation & reclamation, a desktop review was conducted using the U.S. Fish and Wildlife Service's Information for Planning and Consultation (IPaC), the Biota Information System of New Mexico, and BLM wildlife maps. No endangered species habitats were identified within the immediate vicinity of the site. The nearest known habitats for endangered species were located more than 18 miles away from the site. No endangered species or habitat concerns were encountered during field activities.

During the reclamation and remediation activities described in this closure report, no new surface disturbance occurred outside of areas previously impacted by oil and gas operations. All activities were restricted to locations within the established production footprint.

3. EM Survey and Initial Assessment of Well Site and Reserve Pit

Prior to the start of the initial delineation sampling, the EM Survey was conducted to assist in defining the extent of impacted soil and estimate chloride concentrations throughout the pad and the area of legacy reserve pit.

Per the results of EM Survey of legacy reserve pit and the site pad surface, one area of approximately 200 square feet south of the plugged well was found to have an EC > 4 dS/m representing higher salinity within an upper 1-foot layer of the soil surface. No significant chloride concentrations were found within the upper 4 feet at any other area of the reserve pit or site pad, as all other areas show EC ≤ 4 dS/m. The visualization of EM Survey is shown in Plat 2 and Plat 3.

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Eight (8) vertical delineation grab samples (i.e., CS-01 through CS-08) were collected within the areas of interest on pad and in the legacy reserve pit at 2 depths: 0-to-0.5 ft bgs and 0.5-to-1 ft bgs. All samples were analyzed for BTEX, TPH and Chloride by Cardinal Laboratories. Analytical results indicated that all vertical delineation samples were below constituent concentrations from Table I of 19.15.29 NMAC Closure Criteria, therefore no impacts of contamination was identified in the legacy reserve pit. During initial site assessment & sampling, no liner materials or workover fluids were found in the legacy reserve pit or at any location on the pad.

4. Remediation Activities and Confirmation Sampling

Following the review of initial site assessment data, McNabb Partners excavated the impacted area south of the plugged wellhead and hauled off for a proper disposal at R360 Halfway facility.

The confirmation sampling was conducted on June 6th, 2025. The confirmation soil samples (5-point composite) were collected from areas not greater than 200 square feet from the excavation bases and sidewalls, and analyzed for TPH, BTEX and chloride by a certified laboratory.

The 2-foot deep excavation was expanded to the final 590 square feet area until all side wall and excavation base confirmation samples met the most stringent closure criteria within upper 4 feet. 3 confirmation samples (i.e., BS-01 through BS-03) were collected from the base of the excavation at 2 ft bgs and 4 confirmation samples (i.e., WS-01 through WS-04) were collected from side walls of the excavation. Analytical results indicated that composite sample WS-01 exceeded the closure criteria for chloride concentrations. The side wall was excavated and a new side wall composite confirmation sample WS-04A was collected from the extended excavation and analyzed for all constituents by a certified laboratory. All base and side wall confirmation sample meet the closure criteria for the Site, therefore all impacted soil was removed.

A total of 590 square feet of contaminated soil surface was remediated; and a total of 122 cubic yards of contaminated soil were properly disposed of.

- Plat 1 shows the topographic location of the site.
- Plats 2 and 3 show visual results of EM Survey
- Plat 3 shows the initial site assessment map.
- Plat 4 shows final confirmation sample locations along with the excavation depths.
- Plat 5 shows the map of the total reclaimed area.
- Complete analytical summary of all initial site assessment sample results is included in Table A
- Complete analytical summary of all confirmation sample results is included in Table B.
- Figures 1 through 8 show the view of the remediation and reclamation activities.
- The referenced above well log are attached in Appendix A.
- Certificate of Analysis and laboratory reports are included in Appendix B.

5. Reclamation Activities

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30-025-22794

After all remediation activities were completed and all impacted material hauled off to a disposal facility, the site has been reclaimed in accordance with 19.15.29.13 NMAC. The excavation was backfilled with locally sourced, clean, non-impacted material. The soil flipping was completed with clean caliche soils from the surface pad material (with chloride concentrations below 600 mg/kg) excavated and encapsulated, and suitable topsoil placed over the encapsulated materials to restore the original landform matching the background thickness. The non-impacted soil in the legacy reserve pit was cross-ripped and topsoil was brought to the surface. The entrance to the site was bermed off to prevent vehicles from entering the reclaimed area.

The reclaimed area was seeded on June 13th, 2025, using a drill seeder at twice the recommended rate with the NMSLO-approved Coarse seed mixture. The reclaimed areas were watered to promote seed germination. The site will be monitored for revegetation, soil stability and noxious weeds as described in the reclamation plan.

6. Closure Request

At the time of this closure request, MorningStar Operating, LLC, is the surface owner at that location; and the remediation & reclamation process has been conducted by McNabb Partners, LLC, on behalf of MorningStar Operating, LLC.

In accordance with 19.15.17.13 NMAC, we respectfully request the closure of the closed-loop workover pit with the permit P1-04581 previously located on the Midway State #001 location (Well API: 30-025-22794). The well pad location and the adjacent legacy reserve pit has been remediated and reclaimed in accordance with 19.15.29.12 NMAC and 19.15.29.12 NMAC, and reseeded with the suitable seed mixture to restore the location to the natural conditions. At the time of this closure request, MorningStar Operating, LLC, is the surface owner at that location.

During remediation & reclamation activities, there were no liner material or frac fluids found at any point. All soils within upper 4-feet exceeding 600 mg/kg chloride concentration have been excavated and hauled for disposal at the approved facility. Following the excavation, location has been backfilled with clean, non-waste containing, locally sourced topsoil. As a result, the site has a uniform topsoil cover matching the natural background thickness, as required in 19.15.1.13 (H,3) NMAC. Based on the remedial & reclamation efforts described in this report, the site is fully compliant with closure requirements for the closed-loop systems, and no further actions are required at the site.

Please contact me with any questions.

Sincerely,



Dimitry Nikanorov
Project Manager
McNabb Partners
(917) 497-6890

July 24, 2025

Page 5 of 8



Midway State #001
30-025-22794



Midway State #001
30-025-22794

Figure 1. View of the excavation.



Figure 2. View of the excavation.



Figure 3. View of the reclaimed area.



Figure 4. View of the reclaimed area.



Figure 5. View of the reclaimed area.



Figure 6. View of the reclaimed area.



Midway State #001
30-025-22794



Figure 7. View of the reclaimed area.



Figure 8. View of the reclaimed area.

Pit Permit Application



McNabb Partners, LLC
Hobbs • Carlsbad • Midland

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

Form C-144 CLEZ
Revised August 1, 2011

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

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 MIDCONTINENT, L.P. OGRID #:241333

Address: 15 SMITH ROAD, MIDLAND, TEXAS 79705

Facility or well name: MIDWAY STATE #1

API Number: 30-025-22794 OCD Permit Number: P1-04581

U/L or Qtr/Qtr F Section 12 Township 17S Range 36E County: LEA

Center of Proposed Design: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC

Operation: ☐ Drilling a new well ☒ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A

☐ Above Ground Steel Tanks or ☐ Haul-off Bins ADD DEVONIAN PAY & ACIDIZE

3.

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

4.

Closed-loop Systems 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.

☒ 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 Box 5) - 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: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____

5.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: CONTROLLED RECOVERY INC. (CRI) Disposal Facility Permit Number: R9166-NM-01-0006

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ 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 I of 19.15.17.13 NMAC


☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6.

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): DENISE PINKERTON Title: REGULATORY SPECIALIST

Signature:  Date: 05-10-2012

e-mail address: leakejd@chevron.com Telephone: 432-687-7375

7. **OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only)

OCD Representative Signature: _____

Approval Date: 5-4-2012

Title: _____

OCD Permit Number: _____

8. **Closure Report (required within 60 days of closure completion):** Subsection K of 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: _____

9. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10. **Operator Closure Certification:**

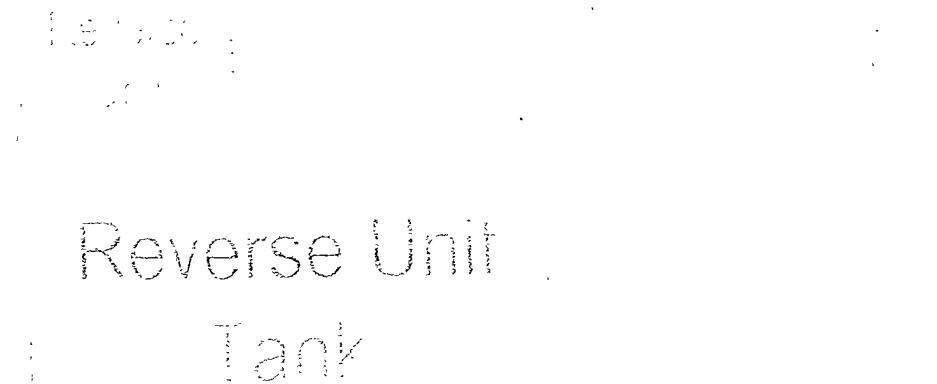
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

Figure 1. Reverse Unit



Notes:

1. This is a generic layout; exact equipment orientation will vary from location to location.
2. This is a schematic representation, so drawing is not to scale.
3. Frac tanks and number of pumps can vary with daily operations and well requirements.

Operation and Maintenance Plan

1. All recovered fluids and solids will be discharged into reverse tank.
2. Reverse tank will be continuously monitored by designated rig crew so that tank will not be overfilled.
3. Rig crew will visually inspect fluid integrity of reverse tank and frac tanks on a daily basis.
4. Documentation of visual inspection of reverse tank and frac tanks will be captured on daily completion morning report.

Closure Plan

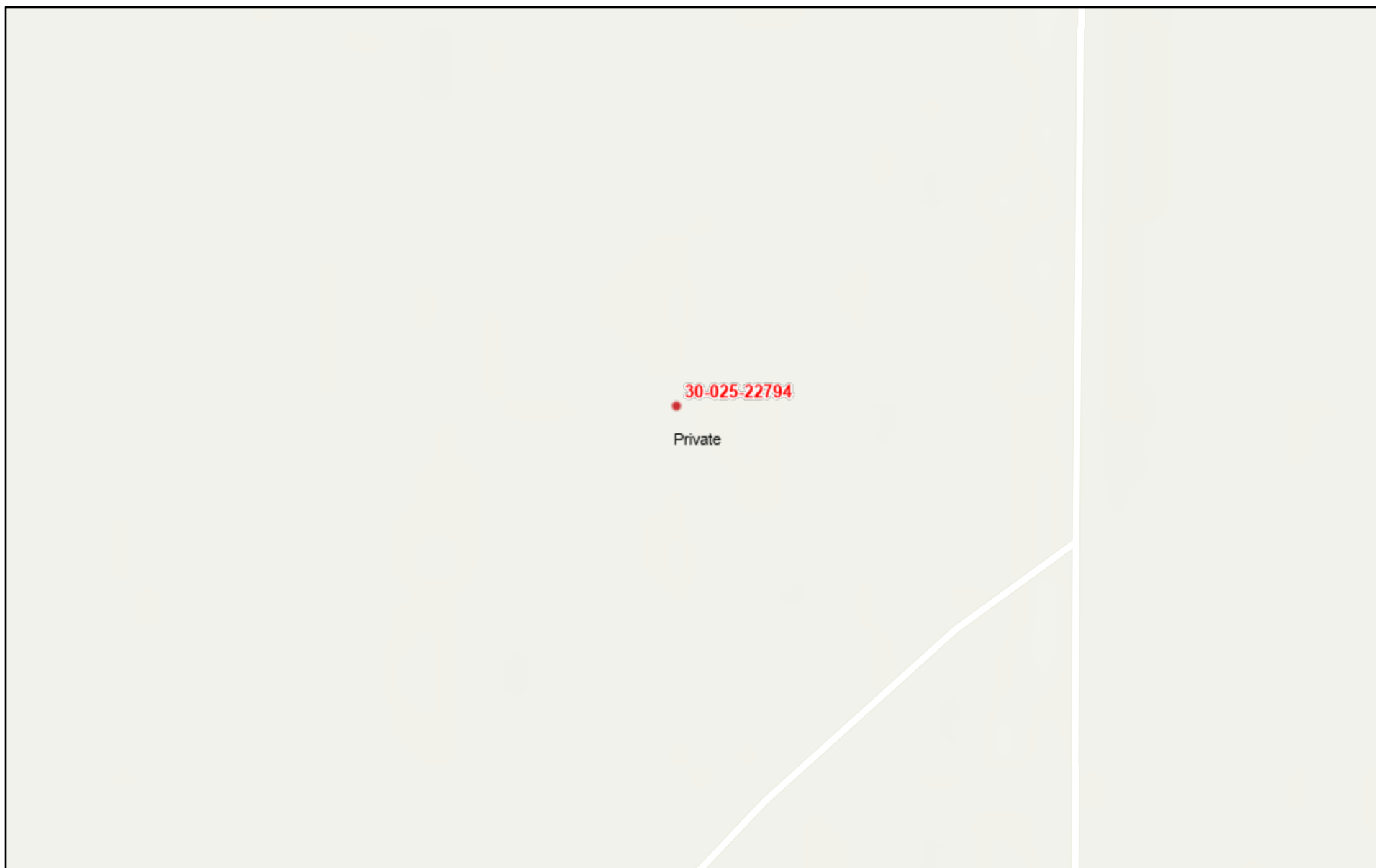
1. All recovered fluids and solids will be removed from reverse tank and hauled off site.
2. All recovered fluids and solids will be disposed of at a suitable off location waste disposal facility.
3. Any remaining frac fluids in frac tanks will be hauled off location.

Site Characterization & Biological Review



McNabb Partners, LLC
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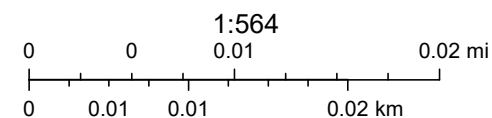
Midway State #001 - Surface Ownership



7/24/2025, 11:38:47 AM

Wells - Large Scale Land Ownership

● Oil, Plugged P

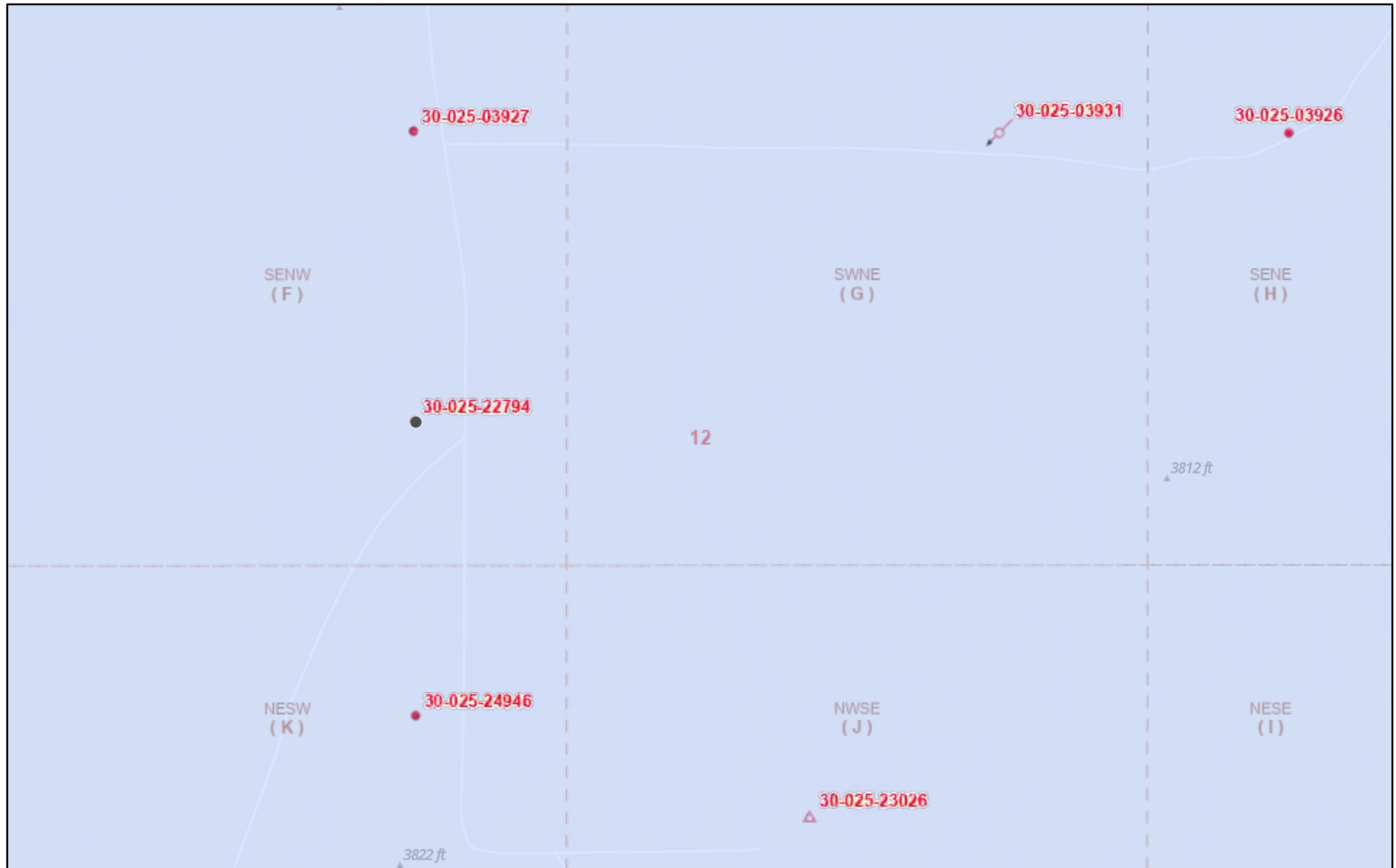


U.S. BLM, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Sources: Esri,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-ernrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

NMOCD Karst Potential - Midway State #001



7/16/2025, 11:21:45 AM

Wells - Large Scale



Injection, Plugged



Oil, Plugged



Salt Water Injection, Plugged

Karst Occurrence Potential



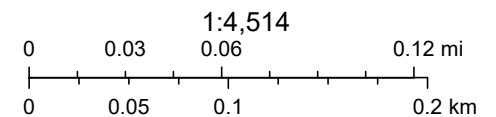
Low



PLSS Second Division



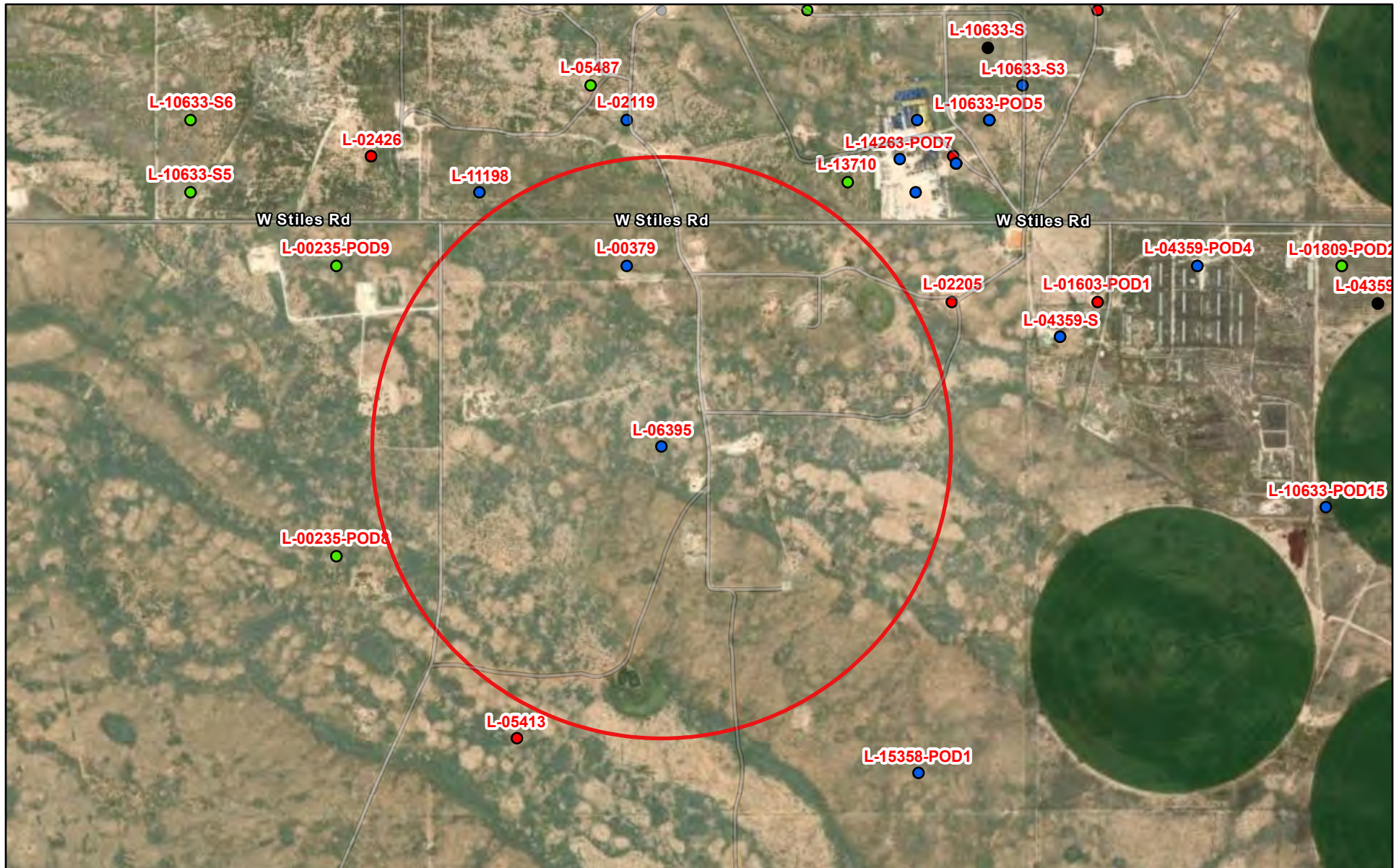
PLSS First Division



BLM, OCD, New Mexico Tech, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, OCD,

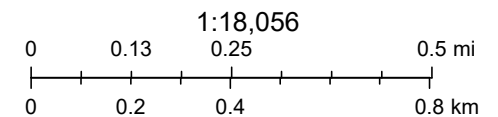
New Mexico Oil Conservation Division

OSE POD Location Map - 0.5 Mile Radius



7/16/2025, 11:18:19 AM

- Override 1
- GIS WATERS PODs
- Active
 - Pending
 - Inactive
 - Plugged
 - OSE District Boundary

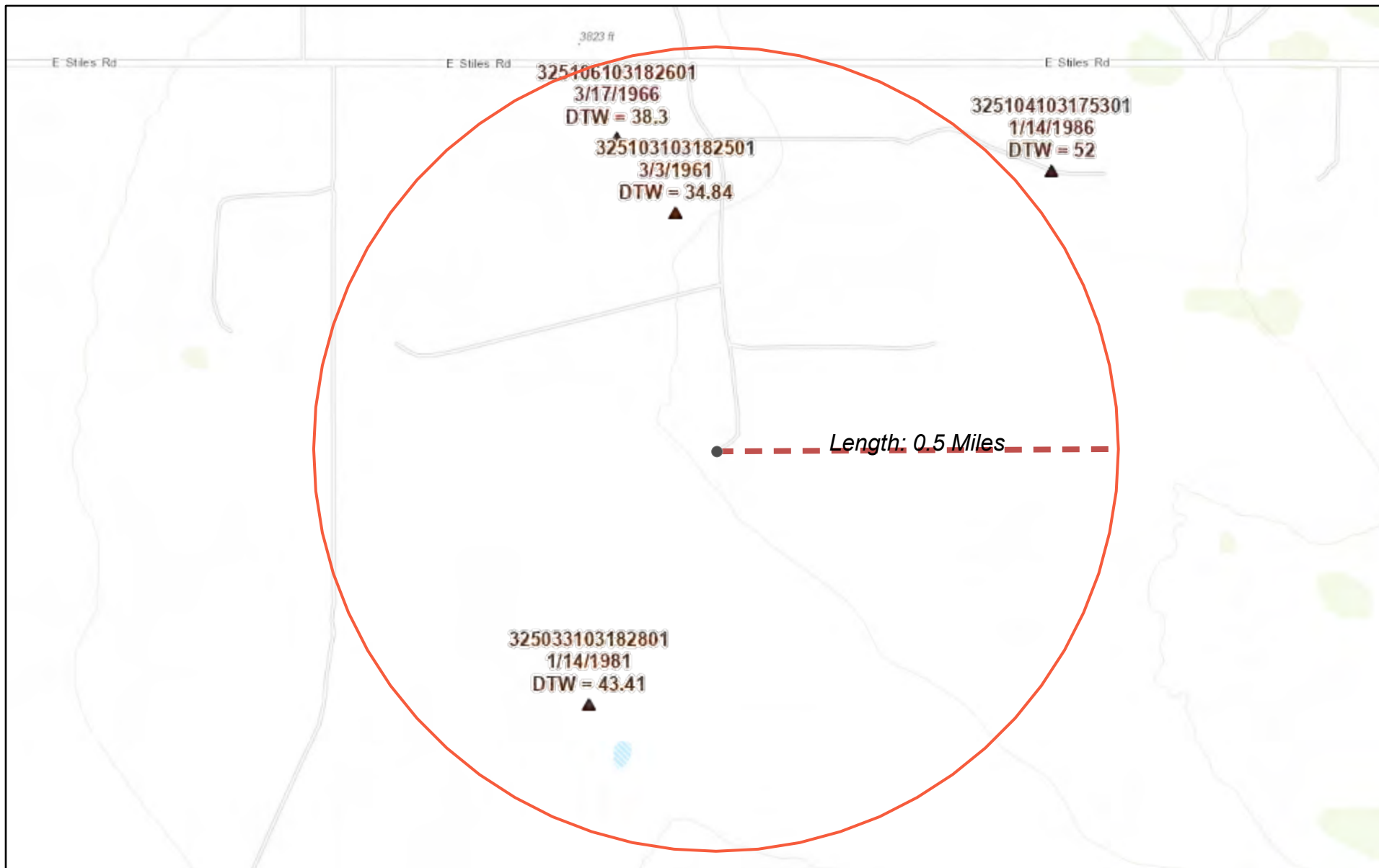


Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Online web user

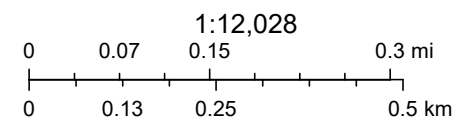
This is an unofficial map from the OSE's online application.

USGS Wells - Midway State #001



7/16/2025, 11:28:28 AM

- Override 1
- ▲ USGS Historical GW Wells
- Override 1



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, USGS

New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMette



103°18'51"W 32°51'17"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°18'14"W 32°50'46"N

Released to Imaging: 7/31/2025 4:33:17 PM

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

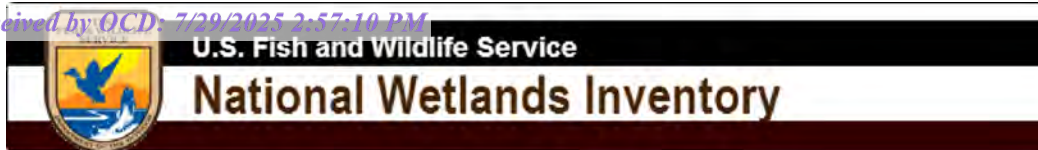


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/16/2025 at 5:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Wetlands - Midway State 001



July 16, 2025

Wetlands

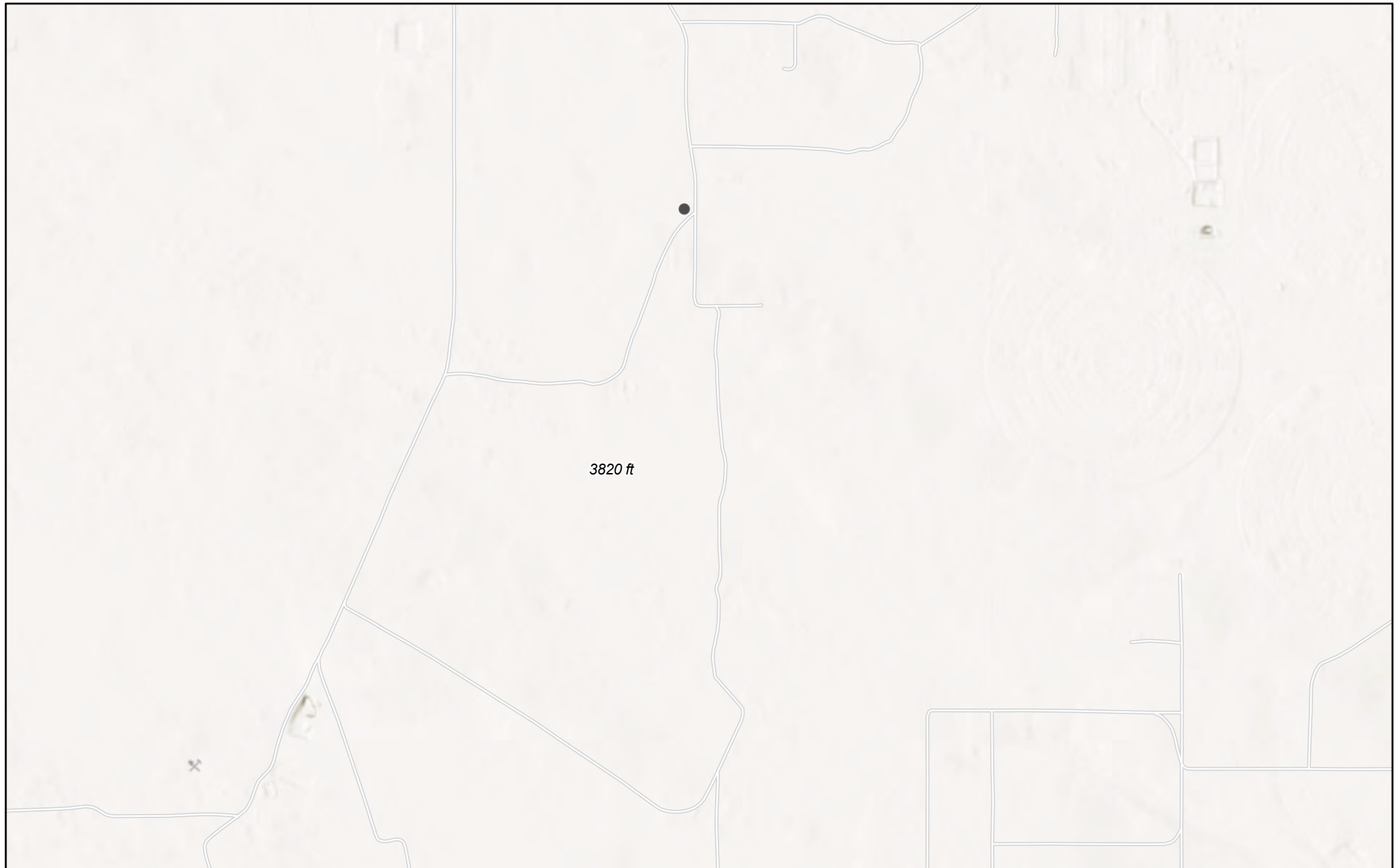
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

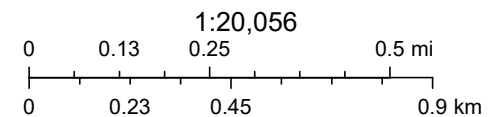
Midway State #001 - Registered Mines



7/24/2025, 11:44:41 AM

Registered Mines

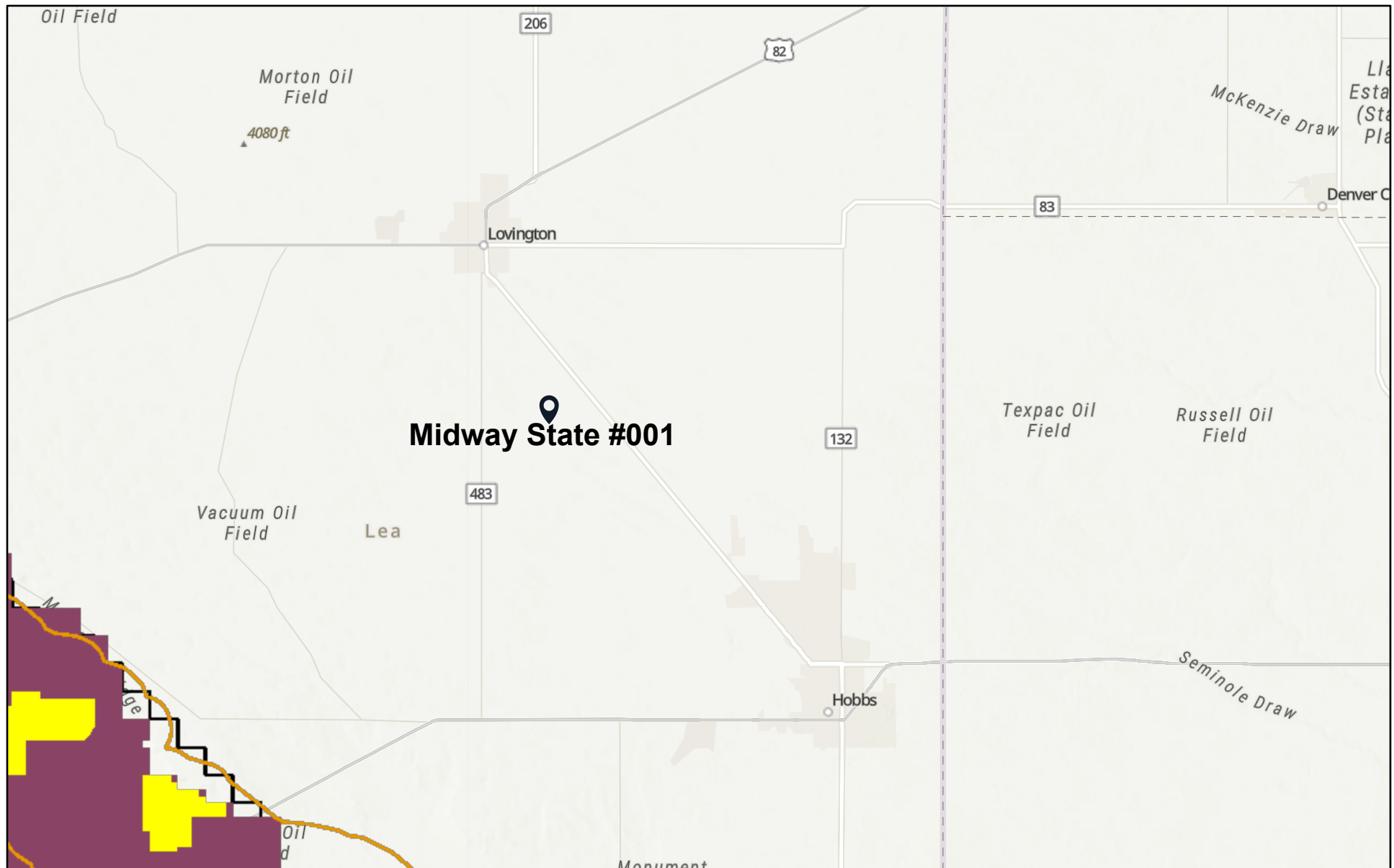
✕ Aggregate, Stone etc.



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

EMNRD MMD GIS Coordinator

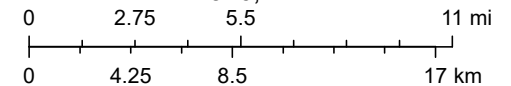
Special Status Plants and Wildlife Habitats, and Areas of Environmental Concern



7/16/2025

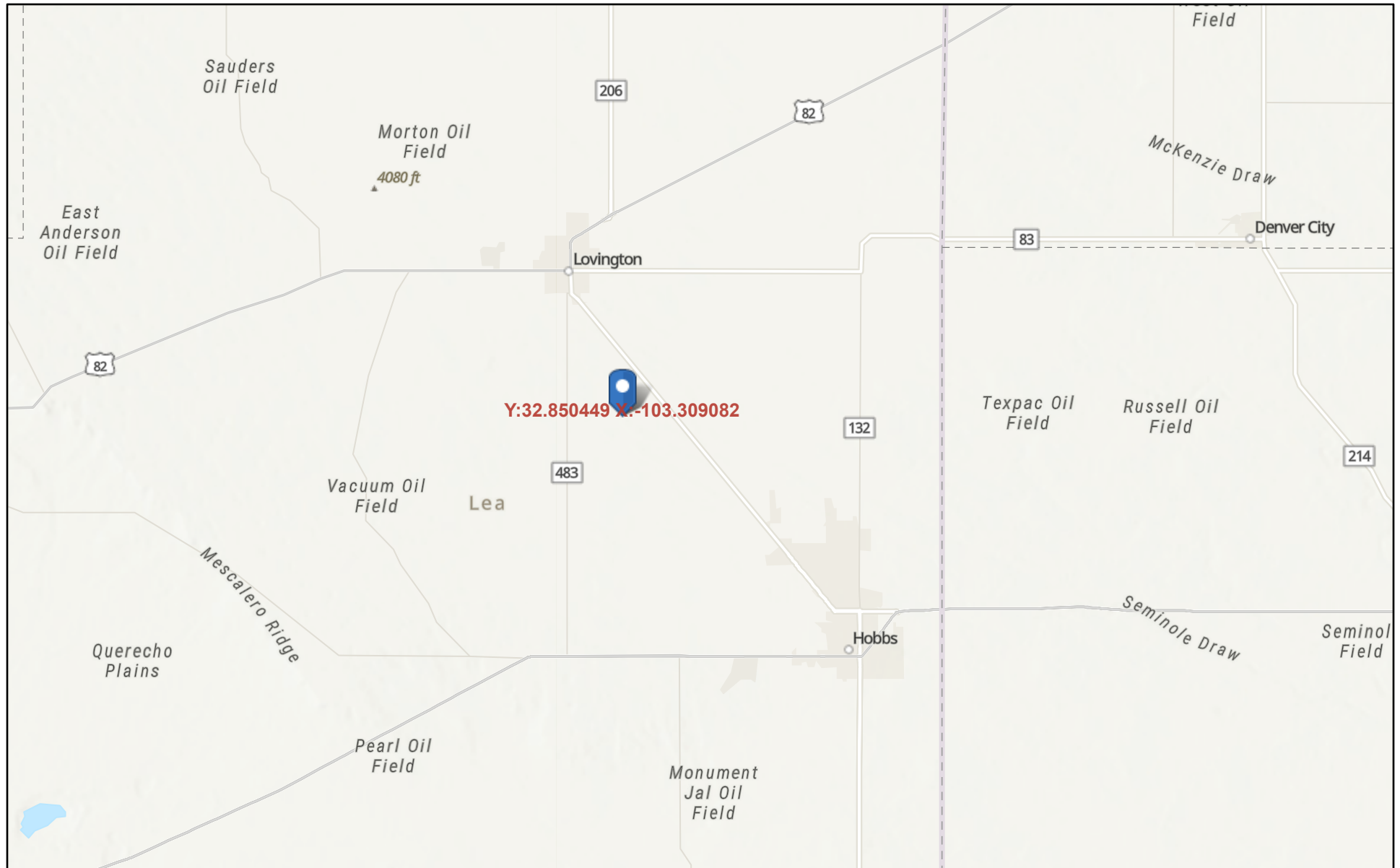
- Dunes Sage Brush Lizard Habitat
- Lesser Prairie Chicken Habitat
- Isolated Population Area
- Lesser Prairie Chicken TR
- Habitat Evaluation Area
- World_Hillshade

1:376,142



Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community,

NMFWS Important Plants, Birds and Critical Habitats Areas - Midway State 001



July 16, 2025

IPA_20171012

B1 - Outstanding



B2 - Very High



B3 - High

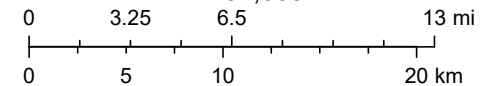


B4 - Moderate



NMAudubonIBA

1:464,039

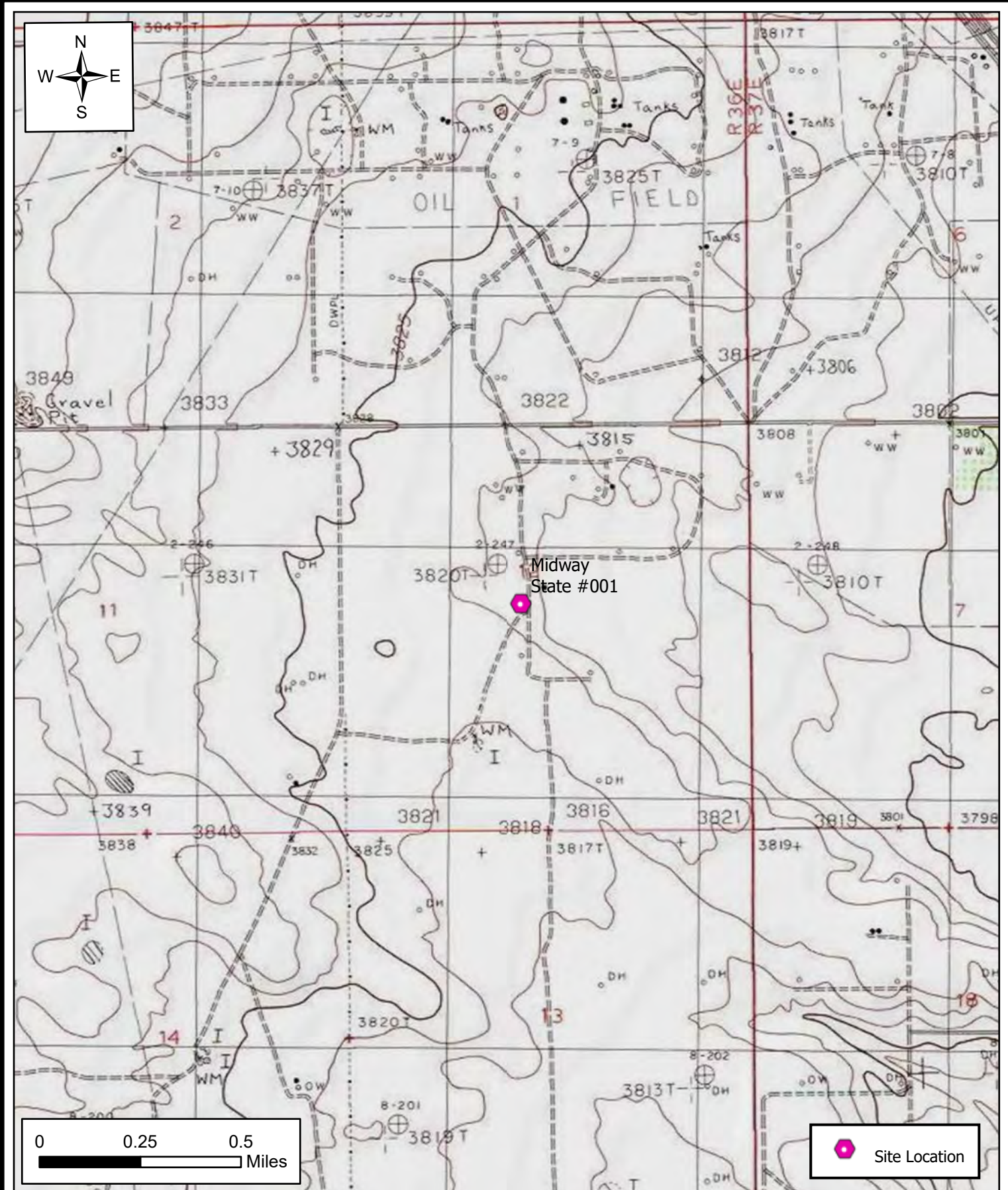


Esri, CGIAR, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Audubon.org

Plats



McNabb Partners, LLC
Hobbs • Carlsbad • Midland



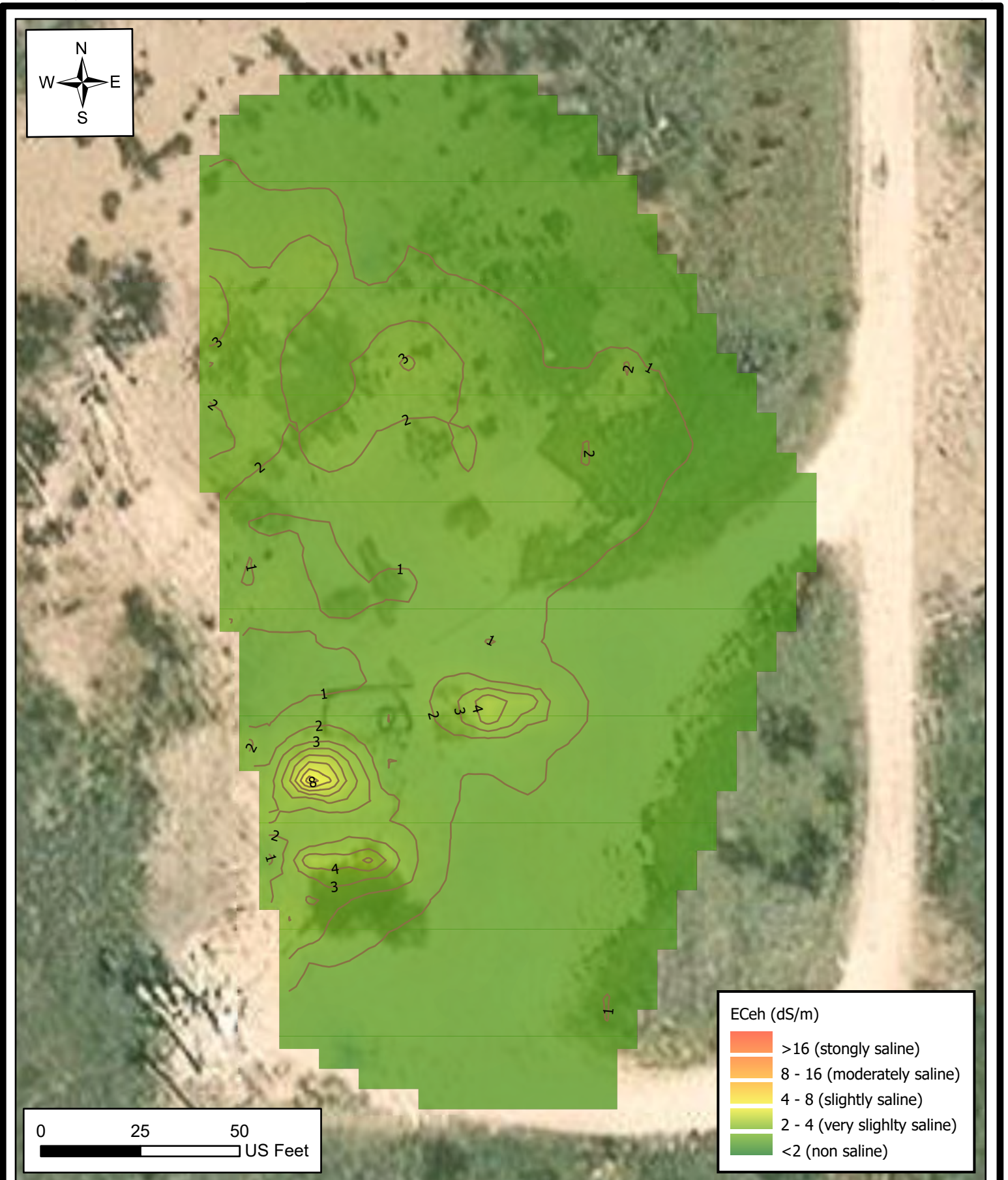
McNabb Partners, LLC
 Hobbs • Carlsbad • Midland

Topographic Map

Midway State #001
 MorningStar Operating, LLC

Plat 1

07/16/2025



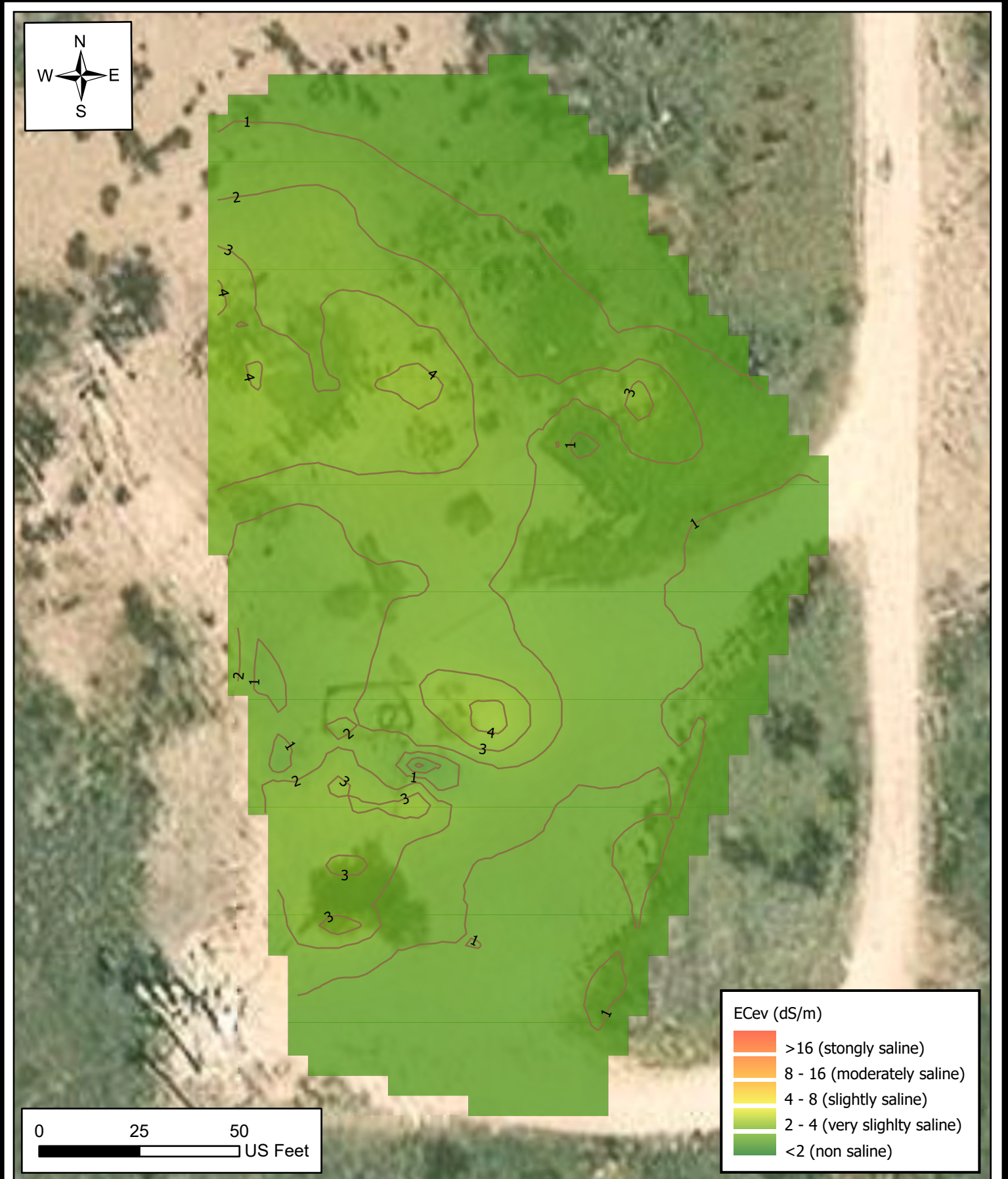
McNabb Partners, LLC
Hobbs • Carlsbad • Midland

EM Survey (0-1 ft bgs)

Plat 2

Midway State #001
MorningStar Operating, LLC

04/09/2025



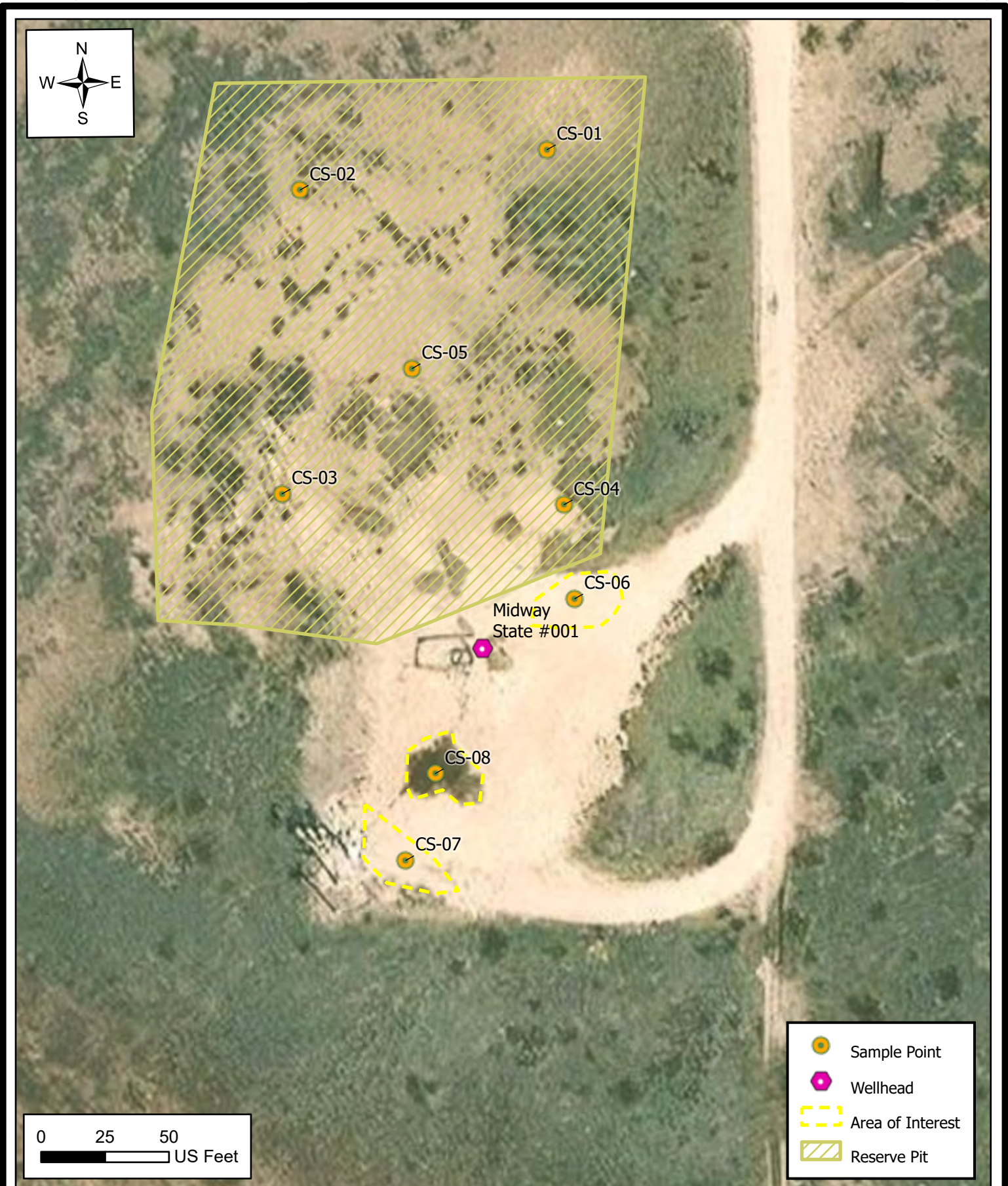
McNabb Partners, LLC
Hobbs • Carlsbad • Midland


EM Survey (1-4 ft bgs)

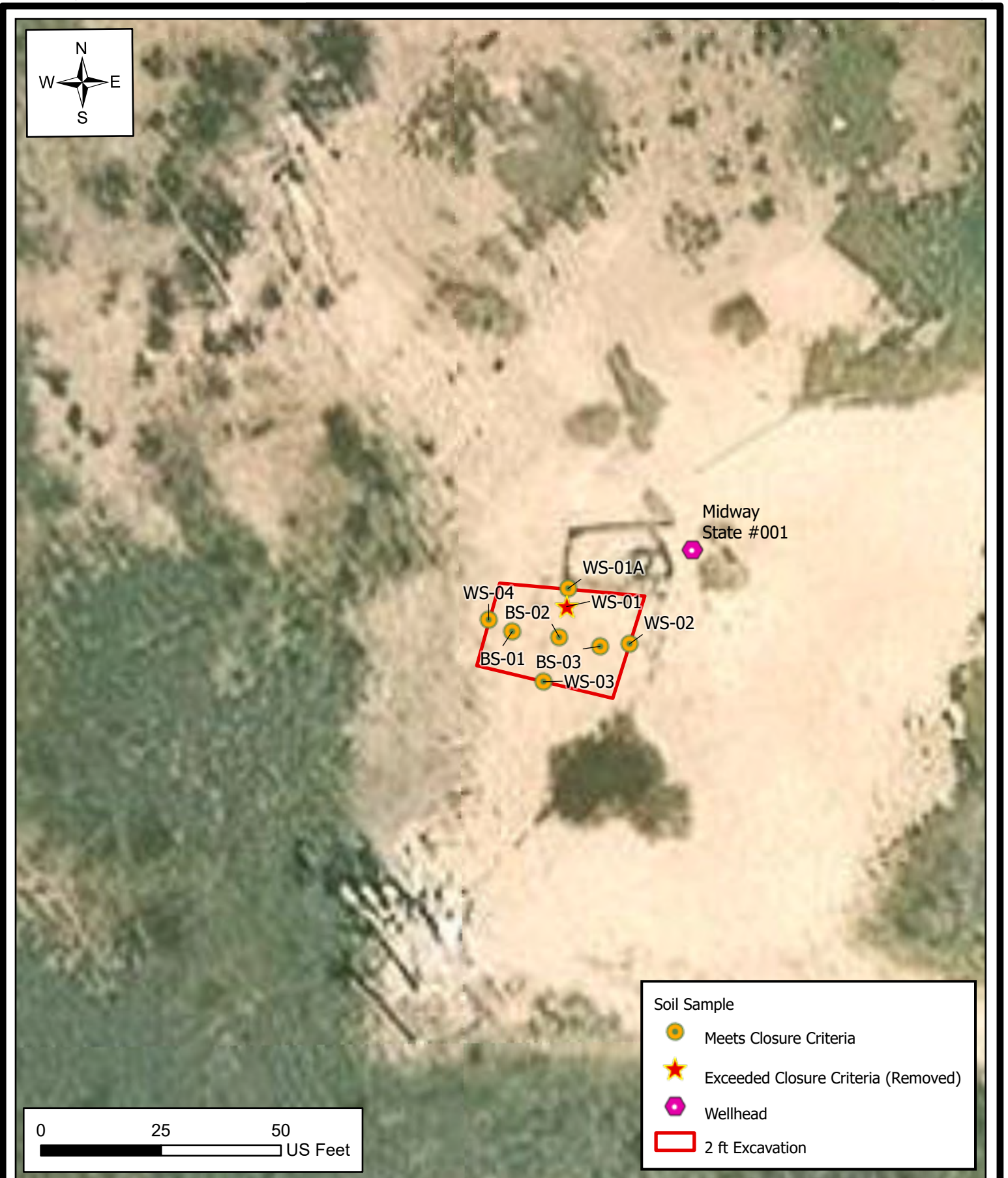
Plat 3

Midway State #001
MorningStar Operating, LLC

04/09/2025



 McNabb Partners, LLC Hobbs • Carlsbad • Midland	Site Assessment Map		Plat 3
	Midway State #001 MorningStar Operating, LLC		07/16/2025



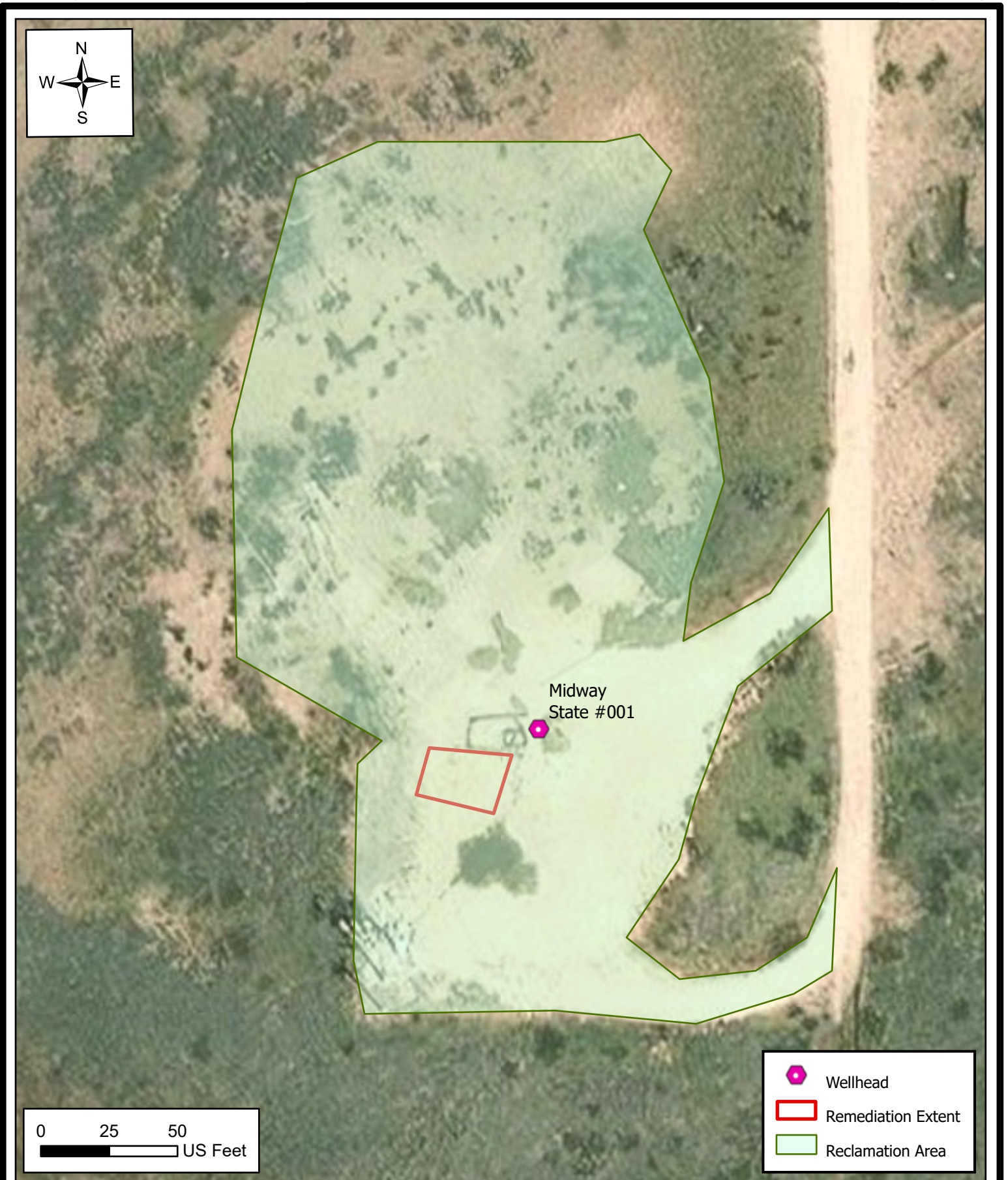
McNabb Partners, LLC
Hobbs • Carlsbad • Midland

Confirmation Sample Locations

Midway State #001
MorningStar Operating, LLC

Plat 4

07/16/2025



McNabb Partners, LLC
Hobbs • Carlsbad • Midland

Site Restoration Map

Midway State #001
MorningStar Operating, LLC

Plat 5

07/16/2025

Tables



McNabb Partners, LLC
Hobbs • Carlsbad • Midland

Table A. Analytical Summary

Midway State #001

Sample ID	Date	Depth (Feet)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria			600	--	--	--	--	100	10	50
Initial Assessment Samples										
CS-01	6/5/2025	0-0.5	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-01	6/5/2025	0.5-1	<16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-02	6/5/2025	0-0.5	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-02	6/5/2025	0.5-1	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-03	6/5/2025	0-0.5	512	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-03	6/5/2025	0.5-1	208	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-04	6/5/2025	0-0.5	496	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-04	6/5/2025	0.5-1	432	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-05	6/5/2025	0-0.5	208	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-05	6/5/2025	0.5-1	160	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-06	6/5/2025	0-0.5	384	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-06	6/5/2025	0.5-1	208	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-07	6/5/2025	0-0.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-07	6/5/2025	0.5-1	160	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-08	6/5/2025	0-0.5	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-08	6/5/2025	0.5-1	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Legend:										
Sample exceeds NMOCD Closure Criteria										
Sample point has been excavated										

Table B. Confirmation Samples Data

Midway State #001

Sample ID	Date	Depth (Feet)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria			600	--	--	--	--	100	10	50
Excavation Base Confirmation Samples										
BS-01	6/6/2025	2	512	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-02	6/6/2025	2	352	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-03	6/6/2025	2	336	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Excavation Side Wall Confirmation Samples										
WS-01	6/6/2025	0-2	704	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-01A	6/10/2025	0-2	400	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-02	6/6/2025	0-2	464	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-03	6/6/2025	0-2	336	<10.0	11.3	11.3	<10.0	11.3	<0.050	<0.300
WS-04	6/6/2025	0-2	176	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Legend:										
Sample exceeds NMOCD Closure Criteria										
Sample point has been excavated										

Appendix A

Well Logs



McNabb Partners, LLC
Hobbs • Carlsbad • Midland



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgma/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: L-00376

Name of well owner: Angell #2 Family Limited Partnership

Mailing address: PO 190

County: _____

City: Lovington

State: _____

NM

Zip code: 88260

Phone number: 575-704-2777

E-mail: Darrangell@gmail.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: James Hawley/H&R Enterprises, LLC

New Mexico Well Driller License No.: WD-1862

Expiration Date: 6/25

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 47 min, 05.10 sec
Longitude: 103 deg, 20 min, 57.20 sec, NAD 83

2) Reason(s) for plugging well(s):

well is abandoned and the land has been sold, buyer is wanting the well plugged

OSE DII ROSWELL NM
25 MAR '25 PM2:17

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? no If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: 70 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 74 feet

WD-08 Well Plugging Plan

Version: March 07, 2022

OSE DII ROSWELL NM
25 MAR '25 PM1:48

Page 1 of 5

- 7) Inside diameter of innermost casing: No Casing inches.
- 8) Casing material: None
- 9) The well was constructed with:
☒ an open-hole production interval, state the open interval: 0-74
☐ a well screen or perforated pipe, state the screened interval(s): _____
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? no If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? N/A If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

this is a 16" open well bore, tremie high solids bentonite grout from 74' BGS to 4' BGS, pour clean fill from 4' BGS to surface.

- 2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 772.56
- 4) Type of Cement proposed: High solids bentonite grout
- 5) Proposed cement grout mix: N/A gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
X mixed on site

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25 MAR '25 PM 2:17

WDS-08 Well Plugging Plan
Version: March 07, 2022
OSE DII ROSWELL NM
25 MAR '25 PM 1:49
Page 41 of 5

- 7) Grout additives requested, and percent by dry weight relative to cement:

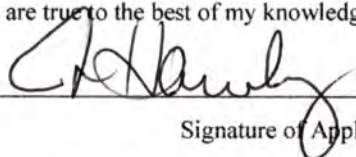
- 8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

This well was drilled in 1947 from the records we could find, no casing was ever installed in the well bore, static water level and TD were gauged on 3/24/25

VIII. SIGNATURE:

I, James Hawley, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.



Signature of Applicant

3/25/25

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this

26th

March

2025

Elizabeth K. Anderson P.E.

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25 MAR '25 PM2:17

., New Mexico State Engineer

By:

K. Parekh
Kashyap Parekh

Water Resources Manager I

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25 MAR '25 PM1:49
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Page 3 of 5



TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

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25 MAR '25 PM2:17

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25 MAR '25 PM1:49

WD-08 Well Plugging Plan
Version: March 07, 2022 Page
4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			0-4' clean fill dirt 4' BGS High solids Bentonite grout
Bottom of proposed sealant of grout placement (ft bgl)			74' BGS High solids bentonite grout
Theoretical volume of sealant required per interval (gallons)			772.56
Proposed abandonment sealant (manufacturer and trade name)			WYO-Ben, INC. Grout Well DF

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WD-08 Well Plugging Plan
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STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
DISTRICT 2
 1900 W. 2nd Street, Roswell, NM88201
 575-622-6521

Applicant has identified a well, listed below, to be plugged. James Hawley (H & R Enterprises LLC) will perform the plugging.

Permittee: Angell # 2 Family Limited Partnership
 Permit Number: L-376

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
L-376	16.0 (Borehole)	74.0	Unknown	32° 47' 5.10"	103° 20' 57.20'

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment of the 16.0 inches bore hole is approximately 772.59 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 74.0 feet below ground surface (b.g.s.).
3. The Well Plugging Plans of Operation submitted request use of, at a minimum, 20% solids bentonite-based product. Per manufacturer's specifications for a 20 percent solids yield, each 50-lbs of Quick Grout is mixed with 24 gallons or less of water.
4. NMAC 19.27.4.30.C.1 specifies placement of sealant by use of a tremie pipe for depths greater than 20 feet. When a tremie is used, it shall extend to near total depth of the well at the initiation of the plugging. Plugging shall proceed from bottom of borehole to surface.
5. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

6. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
7. NMOSE witnessing the plugging of the non-artesian well will not be required.
8. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
9. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 26th day of March 2025

Elizabeth K. Anderson, P.E. State Engineer

By: K. Parekh
Kashyap Parekh
Water Resources Manager 1





STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Elizabeth K. Anderson, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

March 26, 2025

Angell # 2 Family Limited Partnership
P.O. Box 190
Lovington, NM 88260

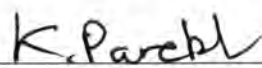
RE: Well Plugging Plan of Operations for L-376

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,


Kashyap Parekh
Water Resources Manager I

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(Plat of 640 acres)

(A) Owner of well McVay Drilling Co.
Street and Number P.O. Box 9240
City Hobbs 88240 State New Mexico
Well was drilled under Permit No. L-6395(E) and is located in the
1/4 SE 1/4 NW 1/4 of Section 12 Twp. 17S Rge. 36E
(B) Drilling Contractor Abbott Brothers License No. WD-46
Street and Number P.O. Box 637
City Hobbs 88240 State New Mexico
Drilling was commenced October 19 1968
Drilling was completed October 19 1968

Elevation at top of casing in feet above sea level _____ Total depth of well 112
State whether well is shallow or artesian Shallow Depth to water upon completion 47

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	47	85	38	Water Sand
2	85	112	37	loose Sand
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7	21	10	0	110	110	Open	68	9:10

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 1968
Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

STATE ENGINEER OFFICE

Date Received 1968 NOV 22 AM 10:37

File No. L-6395(E) Use OWD Location No. 17-36-12-143

No.	Depth of Plug		No. of Sacks Used
	From	To	

LOG OF WELL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller



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Groundwater

Geographic Area:
New Mexico

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Agency code = usgs
site_no list =

- 325103103182501

Minimum number of levels = 1
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USGS 325103103182501 17S.36E.12.123242

Lea County, New Mexico
Latitude 32°51'15.9", Longitude 103°18'35.6" NAD83
Land-surface elevation 3,820.00 feet above NGVD29
The depth of the well is 110 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1961-03-03			D 62610		3785.16	NGVD29	1		Z	
1961-03-03			D 62611		3786.48	NAVD88	1		Z	
1961-03-03			D 72019	34.84			1		Z	
1966-03-17			D 62610		3781.15	NGVD29	1		Z	
1966-03-17			D 62611		3782.47	NAVD88	1		Z	
1966-03-17			D 72019	38.85			1		Z	
1971-02-10			D 62610		3777.47	NGVD29	1		Z	
1971-02-10			D 62611		3778.79	NAVD88	1		Z	
1971-02-10			D 72019	42.53			1		Z	
1976-02-27			D 62610		3775.90	NGVD29	1		Z	
1976-02-27			D 62611		3777.22	NAVD88	1		Z	
1976-02-27			D 72019	44.10			1		Z	
1981-01-14			D 62610		3772.44	NGVD29	1		Z	
1981-01-14			D 62611		3773.76	NAVD88	1		Z	
1981-01-14			D 72019	47.56			1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1986-01-14			D	62610	3769.13	NGVD29	1		Z	
1986-01-14			D	62611	3770.45	NAVD88	1		Z	
1986-01-14			D	72019	50.87		1		Z	
2001-01-12			D	62610	3761.58	NGVD29	1		S	
2001-01-12			D	62611	3762.90	NAVD88	1		S	
2001-01-12			D	72019	58.42		1		S	
2006-01-20	16:50 UTC		m	62610	3750.71	NGVD29	1		S	USGS
2006-01-20	16:50 UTC		m	62611	3752.03	NAVD88	1		S	USGS
2006-01-20	16:50 UTC		m	72019	69.29		1		S	USGS
2010-12-22	18:00 UTC		m	62610	3744.90	NGVD29	1		S	USGS
2010-12-22	18:00 UTC		m	62611	3746.22	NAVD88	1		S	USGS
2010-12-22	18:00 UTC		m	72019	75.10		1		S	USGS

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.37 0.3 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

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Agency code = usgs
site_no list =

- 325106103182601

Minimum number of levels = 1
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USGS 325106103182601 17S.36E.12.121

Lea County, New Mexico
Latitude 32°51'20", Longitude 103°18'38" NAD27
Land-surface elevation 3,822 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1961-03-03			D 62610		3787.32	NGVD29	1	Z		
1961-03-03			D 62611		3788.64	NAVD88	1	Z		
1961-03-03			D 72019	34.68			1	Z		
1966-03-17			D 62610		3783.70	NGVD29	1	Z		
1966-03-17			D 62611		3785.02	NAVD88	1	Z		
1966-03-17			D 72019	38.30			1	Z		
1971-02-10			D 62610		3780.02	NGVD29	1	Z		
1971-02-10			D 62611		3781.34	NAVD88	1	Z		
1971-02-10			D 72019	41.98			1	Z		
1976-02-27			D 62610		3777.90	NGVD29	1	Z		
1976-02-27			D 62611		3779.22	NAVD88	1	Z		
1976-02-27			D 72019	44.10			1	Z		

Explanation		
Section	Code	Description

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.39 0.3 nadww02

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USGS Water Resources

Data Category:
Groundwater

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 325033103182801

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 325033103182801 17S.36E.12.323344

Lea County, New Mexico
Latitude 32°50'46", Longitude 103°18'40" NAD27
Land-surface elevation 3,818.00 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measur
1961-03-27		D	62610		3783.43	NGVD29	1		Z	
1961-03-27		D	62611		3784.75	NAVD88	1		Z	
1961-03-27		D	72019	34.57			1		Z	
1966-02-24		D	62610		3780.99	NGVD29	1		Z	
1966-02-24		D	62611		3782.31	NAVD88	1		Z	
1966-02-24		D	72019	37.01			1		Z	
1971-02-11		D	62610		3777.62	NGVD29	P		Z	
1971-02-11		D	62611		3778.94	NAVD88	P		Z	
1971-02-11		D	72019	40.38			P		Z	
1976-02-27		D	62610		3777.59	NGVD29	1		Z	
1976-02-27		D	62611		3778.91	NAVD88	1		Z	
1976-02-27		D	72019	40.41			1		Z	
1981-01-14		D	62610		3774.59	NGVD29	P		Z	
1981-01-14		D	62611		3775.91	NAVD88	P		Z	
1981-01-14		D	72019	43.41			P		Z	
1986-01-14		D	62610		3772.07	NGVD29	1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1986-01-14			D	62611	3773.39	NAVD88	1		Z	
1986-01-14			D	72019	45.93		1		Z	

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2025-07-16 13:34:34 EDT
0.4 0.3 nadww02

Appendix B

Certificates of Analysis



McNabb Partners, LLC
Hobbs • Carlsbad • Midland



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 09, 2025

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: MIDWAY STATE #001 PIT

Enclosed are the results of analyses for samples received by the laboratory on 06/05/25 16:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 01 0-0.5 FT (H253385-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 65.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 01 0.5-1 FT (H253385-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 70.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 02 0-0.5 FT (H253385-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 02 0.5-1 FT (H253385-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38		
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17		
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND						

Surrogate: 1-Chlorooctane 64.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.7 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 03 0-0.5 FT (H253385-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/06/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 57.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 52.8 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 03 0.5-1 FT (H253385-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEx	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 68.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 04 0-0.5 FT (H253385-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 04 0.5-1 FT (H253385-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42		
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 70.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 05 0-0.5 FT (H253385-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38		
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17		
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND						

Surrogate: 1-Chlorooctane 65.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.1 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 05 0.5-1 FT (H253385-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.5 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 06 0-0.5 FT (H253385-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38		
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17		
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND						

Surrogate: 1-Chlorooctane 53.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 51.4 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 06 0.5-1 FT (H253385-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 58.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 53.1 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 07 0-0.5 FT (H253385-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 64.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.3 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 07 0.5-1 FT (H253385-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38		
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17		
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND						

Surrogate: 1-Chlorooctane 65.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 08 0-0.5 FT (H253385-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 58.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 53.5 % 40.6-153

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001 PIT	Sampling Condition:	Cool & Intact
Project Number:	MORNING STAR	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 08 0.5-1 FT (H253385-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	183	91.6	200	5.38		
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	205	102	200	4.17		
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND						

Surrogate: 1-Chlorooctane 77.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

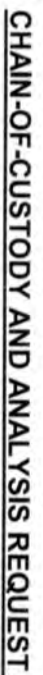
Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



Company Name: McNabb Partners

Project Manager: Dmitry Nikanorov

Address: - 5014 W Carlsbad Hwy

City: Hobbs

Phone #:

Project #:

Project-Name: Midway State #001

Project Location: Lea County, NM

Sampler Name: Christopher Turner

FOR LAB USE ONLY

1000

Lab I.D.

Sample I.D.

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4253384

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12

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[illegible]

PAGE NOTE: 1. 10/20/2014

DISCLOSURE NOTE: Summary of

affiliates of successors are...

Relinquished by

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Relinquished By

Delivered By: (C)

Conversion of:

Sampler - UPS -

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Page 20 of 20

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 17, 2025

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: MIDWAY STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 06/06/25 15:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484Reported:
17-Jun-25 15:50

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BS - 01 2'	H253409-01	Soil	06-Jun-25 12:22	06-Jun-25 15:51
BS - 02 2'	H253409-02	Soil	06-Jun-25 12:35	06-Jun-25 15:51
BS - 03 2'	H253409-03	Soil	06-Jun-25 12:48	06-Jun-25 15:51
WS - 01 0-2'	H253409-04	Soil	06-Jun-25 13:06	06-Jun-25 15:51
WS - 02 0-2'	H253409-05	Soil	06-Jun-25 13:12	06-Jun-25 15:51
WS - 03 0-2'	H253409-06	Soil	06-Jun-25 13:26	06-Jun-25 15:51
WS - 04 0-2'	H253409-07	Soil	06-Jun-25 13:39	06-Jun-25 15:51

06/17/25 - The wrong project name was logged in originally. This is the revised report with the corrected project name and will replace the one sent on 06/10/25.

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

BS - 01 2'
H253409-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	512		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	117 %	71.5-134	5060633	JH	09-Jun-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

Surrogate: 1-Chlorooctane	74.4 %	44.4-145	5060907	MS	09-Jun-25	8015B	
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Surrogate: 1-Chlorooctadecane	72.7 %	40.6-153	5060907	MS	09-Jun-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

BS - 02 2'
H253409-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134 5060633 JH 09-Jun-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

Surrogate: 1-Chlorooctane 70.3 % 44.4-145 5060907 MS 09-Jun-25 8015B

Surrogate: 1-Chlorooctadecane 68.4 % 40.6-153 5060907 MS 09-Jun-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

BS - 03 2'
H253409-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			125 %		71.5-134	5060633	JH	09-Jun-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

Surrogate: 1-Chlorooctane			65.7 %		44.4-145	5060907	MS	09-Jun-25	8015B	
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Surrogate: 1-Chlorooctadecane			64.8 %		40.6-153	5060907	MS	09-Jun-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

WS - 01 0-2'
H253409-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	704		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134 5060633 JH 09-Jun-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

Surrogate: 1-Chlorooctane 65.6 % 44.4-145 5060907 MS 09-Jun-25 8015B

Surrogate: 1-Chlorooctadecane 67.5 % 40.6-153 5060907 MS 09-Jun-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

WS - 02 0-2'
H253409-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134 5060633 JH 09-Jun-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

Surrogate: 1-Chlorooctane 69.2 % 44.4-145 5060907 MS 09-Jun-25 8015B

Surrogate: 1-Chlorooctadecane 68.7 % 40.6-153 5060907 MS 09-Jun-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

WS - 03 0-2'
H253409-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			124 %		71.5-134	5060633	JH	09-Jun-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

Surrogate: 1-Chlorooctane			78.9 %		44.4-145	5060907	MS	09-Jun-25	8015B	
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Surrogate: 1-Chlorooctadecane			77.7 %		40.6-153	5060907	MS	09-Jun-25	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

WS - 04 0-2'
H253409-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	5060931	HM	09-Jun-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5060633	JH	09-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5060633	JH	09-Jun-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	71.5-134		5060633	JH	09-Jun-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5060907	MS	09-Jun-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.9 %	44.4-145		5060907	MS	09-Jun-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			73.5 %	40.6-153		5060907	MS	09-Jun-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5060931 - 1:4 DI Water									
Blank (5060931-BLK1)				Prepared & Analyzed: 09-Jun-25					
Chloride	ND	16.0	mg/kg						
LCS (5060931-BS1)				Prepared & Analyzed: 09-Jun-25					
Chloride	416	16.0	mg/kg	400		104	80-120		
LCS Dup (5060931-BSD1)				Prepared & Analyzed: 09-Jun-25					
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20

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Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5060633 - Volatiles**Blank (5060633-BLK1)**

Prepared: 06-Jun-25 Analyzed: 09-Jun-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0581		mg/kg	0.0500		116	71.5-134			

LCS (5060633-BS1)

Prepared: 06-Jun-25 Analyzed: 09-Jun-25

Benzene	1.93	0.050	mg/kg	2.00		96.6	76.3-129			
Toluene	2.10	0.050	mg/kg	2.00		105	84.1-129			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	80.1-133			
m,p-Xylene	4.42	0.100	mg/kg	4.00		110	81.4-134			
o-Xylene	2.19	0.050	mg/kg	2.00		110	81.4-133			
Total Xylenes	6.61	0.150	mg/kg	6.00		110	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	71.5-134			

LCS Dup (5060633-BSD1)

Prepared: 06-Jun-25 Analyzed: 09-Jun-25

Benzene	1.71	0.050	mg/kg	2.00		85.5	76.3-129	12.1	15.8	
Toluene	1.86	0.050	mg/kg	2.00		92.8	84.1-129	12.5	15.9	
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.7	80.1-133	12.0	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.6	81.4-134	12.3	16.2	
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	81.4-133	12.9	16.7	
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	81.5-134	12.5	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
P. O. BOX 5753
HOBBS NM, 88240

Project: MIDWAY STATE #001
Project Number: NONE GIVEN
Project Manager: DIMITRY NIKANOROV
Fax To: (575) 391-8484

Reported:
17-Jun-25 15:50

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5060907 - General Prep - Organics**Blank (5060907-BLK1)**

Prepared & Analyzed: 09-Jun-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.8		mg/kg	50.0		81.6	44.4-145			
Surrogate: 1-Chlorooctadecane	41.3		mg/kg	50.0		82.7	40.6-153			

LCS (5060907-BS1)

Prepared & Analyzed: 09-Jun-25

GRO C6-C10	214	10.0	mg/kg	200		107	81.5-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	77.7-122			
Total TPH C6-C28	413	10.0	mg/kg	400		103	80.9-121			
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	44.4-145			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.7	40.6-153			

LCS Dup (5060907-BSD1)

Prepared & Analyzed: 09-Jun-25

GRO C6-C10	217	10.0	mg/kg	200		109	81.5-123	1.32	13	
DRO >C10-C28	199	10.0	mg/kg	200		99.4	77.7-122	0.0483	15.6	
Total TPH C6-C28	416	10.0	mg/kg	400		104	80.9-121	0.709	18.5	
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	44.4-145			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	40.6-153			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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June 11, 2025

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: MIDWAY STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 06/10/25 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	06/10/2025	Sampling Date:	06/10/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MIDWAY STATE #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MORNING STAR - LEA COUNTY, NM		

Sample ID: WS - 01 A (0-2') (H253460-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2025	ND	1.62	81.0	2.00	14.6	
Toluene*	<0.050	0.050	06/10/2025	ND	1.73	86.5	2.00	12.8	
Ethylbenzene*	<0.050	0.050	06/10/2025	ND	1.72	85.8	2.00	11.6	
Total Xylenes*	<0.150	0.150	06/10/2025	ND	5.10	84.9	6.00	11.7	
Total BTEX	<0.300	0.300	06/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/11/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2025	ND	199	99.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	06/10/2025	ND	199	99.6	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	06/10/2025	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.6 % 40.6-153

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 489250

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 489250
	Action Type: [C-144] Temporary Pit Plan (C-144T)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	None	7/31/2025