

Environmental Site Remediation Work Plan
General Information

NMOCD District:	Hobbs	Incident ID:	nAPP2530748842
Landowner:	Federal	RP Reference:	n/a
Client:	Devon Energy Production Company, LP	Site Location:	Aleutian 10 CTB 2
Date:	December 10, 2025	Project #:	25A-05838
Client Contact:	Jim Raley	Phone #:	575.689.7597
Vertex PM:	Sally Carttar	Phone #:	575.361.3561

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the release assigned to Aleutian 10 CTB 2, Facility FAPP2300331384 (hereafter referred to as the "site"). The incident occurred on November 1, 2025, when corrosion on a dump line developed a pinhole leak releasing approximately 7 barrels of produced water onto the production area pad. The area of environmental concern was identified and delineated are around the separators and pad area to the immediate east. An aerial photograph of the site with characterization locations is presented on Figure 1 (Attachment 1).

The nearest depth to ground water reference is 0.35 miles (1,878 ft) to the southeast of the site. It is a United States Department of Energy monitoring well drilled to 865 ft below ground surface (bgs) with depth to water of 639 ft bgs. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. The closure criteria for the site are presented in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

Site Assessment/Characterization

Site characterization was completed on November 10, 2025. A total of six sample points were established and samples collected for field screening. Samples were obtained at multiple depths for horizontal and vertical delineation, and samples at the greatest lateral and vertical limits below criteria were submitted to the laboratory for analysis. In total, 10 samples were submitted to Hall Environmental Analysis Laboratory, Albuquerque, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2); no exceedances to the closure criteria were identified. BH25-05 was not sent for laboratory analysis, however field screens indicated that the sample point met on pad criteria. Daily Field Reports are included in Attachment 3. Laboratory data reports are included in Attachment 4. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.

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Remedial Activities**General**

Delineation results showed no contamination over closure criteria. As such, the release area will initially be remediated to address surface staining. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed.

Once excavation is complete, confirmatory samples will be collected across the release area in 200 sq ft increments and laboratory analysis will be completed to confirm closure criteria guidelines are met. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Any areas identified with contaminant concentrations above closure criteria will be remediated through excavation and/or hand digging in 0.5 or 1ft increments. Soil will be excavated to the extent of the known while maintaining structural stability and safety. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. The excavation will be backfilled with clean soil sourced locally.

nAPP2530748842– Release from Separator

Staining is present around the point of release and between the separators directly north of point of release, as shown on Figure 1 (Attachment 1). Staining will be removed and impacted areas will be remediated to closure criteria via excavation, where access is possible, around separators and underground flowlines. Soil in open areas capable of excavation with heavy equipment will be initially excavated to 6 inches. Soil in immediate proximity to equipment will have the surface staining manually removed with hand tools to approximately 3 inches. The excavation in between the separators will undergo no excavation greater than 1 foot while the excavation underneath the separators and lines will undergo no excavation greater than 3 inches to maintain ground stability. The excavation will be as close as safely possible to the active separators.

The areas under and in immediate proximity to equipment may require deferral depending on the results of confirmation sampling. The need for deferral will be evaluated once excavation has been completed and laboratory results are available.

Heavy equipment will be used to complete excavation in areas free of infrastructure or equipment. As line locates show multiple underground flow lines as well as electrical conduit through the proposed excavation area, the majority of the excavation will be performed by hand crew. A hydrovac truck may be utilized to identify utility and buried pipelines where necessary, and hand tools will be utilized to remove contaminated soil in close proximity to equipment, buried utilities, and pipelines. Hand tools will be utilized to remove contaminated soil in close proximity to equipment, buried utilities, and pipelines. Confirmation samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters.

The total remediation area is approximately 883 square feet as shown on Figure 2 (Attachment 1). The total estimated volume to be excavated is approximately 12 cubic yards. Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan.

Sample Point	Excavation Depth	Remediation Method
BH25-05	3 inches	Hand Excavation
BH25-01	3 inches	Hand Excavation

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Should you have any questions or concerns, please do not hesitate to contact Project Manager Sally Carttar at 575.361.3561 or Scarttar@vertexresource.com.

Austin Harris

Austin Harris, B.Sc.
ENVIRONMENTAL SPECIALIST, REPORTING

December 11, 2025

Date

Sally Carttar

Sally Carttar, B.Sc.
PROJECT MANAGER, REPORT REVIEW

December 11, 2025

Date

Attachments

- Attachment 1. Figure
- Attachment 2. Initial Characterization Sample Laboratory Results
- Attachment 3. Daily Field Reports with Photographs
- Attachment 4. Laboratory Data Reports and Chain of Custody Forms
- Attachment 5. Closure Criteria Research

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ATTACHMENT 1



0 15 30 ft

Map Center:
Lat/Long: 32.315055°N, 103.762029°W

Date: Nov 24/25

N

Characterization Sampling Site Schematic
Aleutian 10 CTB 2FIGURE:
1

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

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ATTACHMENT 2

Client Name: Devon Energy Production Company, LP
 Site Name: Aleutian 10 CTB 2
 NMOCD Tracking #: nAPP2530748842
 Project #: 25A-05838
 Lab Report: 885-37631

Table 2. Initial Characterization Sample Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons						Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID) (ppm)	Extractable Organic Compounds (PetroFlag) (ppm)	Chloride Concentration (ppm)	Volatile		Extractable					
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
Depth to Groundwater > 100 feet bgs													
BH25-01	0	November 10, 2025	—	28	12,563	ND	ND	ND	ND	ND	ND	ND	12,000
	4	November 10, 2025	—	8	373	ND	ND	ND	ND	ND	ND	ND	140
BH25-02	0	November 10, 2025	—	7	253	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	6	188	ND	ND	ND	ND	ND	ND	ND	ND
BH25-03	0	November 10, 2025	—	14	260	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	6	105	ND	ND	ND	ND	ND	ND	ND	ND
BH25-04	0	November 10, 2025	—	3	155	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	0	145	ND	ND	ND	ND	ND	ND	ND	ND
BH25-05	0	November 10, 2025	—	—	11,445	—	—	—	—	—	—	—	—
	2	November 10, 2025	—	—	215	—	—	—	—	—	—	—	—
BH25-06	0	November 10, 2025	—	12	320	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 10, 2025	—	6	202	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"—" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

ATTACHMENT 3



Daily Site Visit Report

Client: Devon Energy Corporation

Site Location Name: Aleutian 10 CTB 2

Inspection Date: 11/10/2025

Incident ID #:

API #:

Summary of Times

Arrived at Site 11/10/2025 9:00 AM

Departed Site 11/10/2025 2:30 PM

Daily Site Visit Report



Site Sketch

Site Sketch



Daily Site Visit Report

Field Notes

9:43 Completed safety paperwork and magnetic locate sweep of sample area

9:44 On site to delineate release between separators

16:36 Obtained BH25-01 to 06.

05 exceeded delineation criteria and was stepped out to the north once more.

05 not sent to lab.

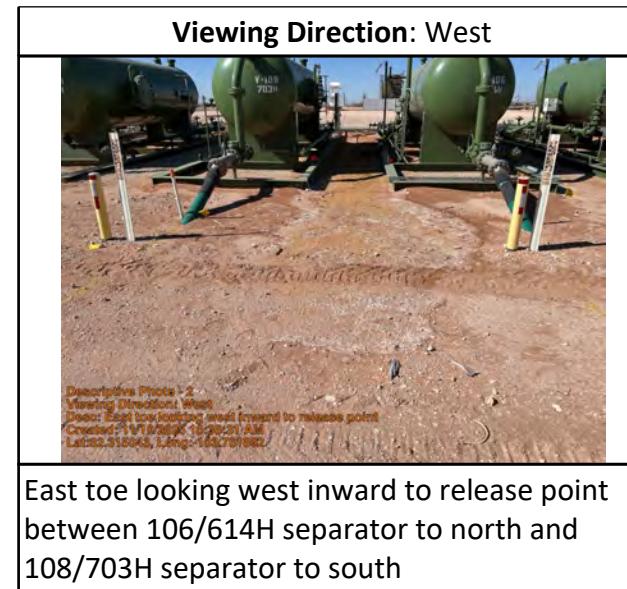
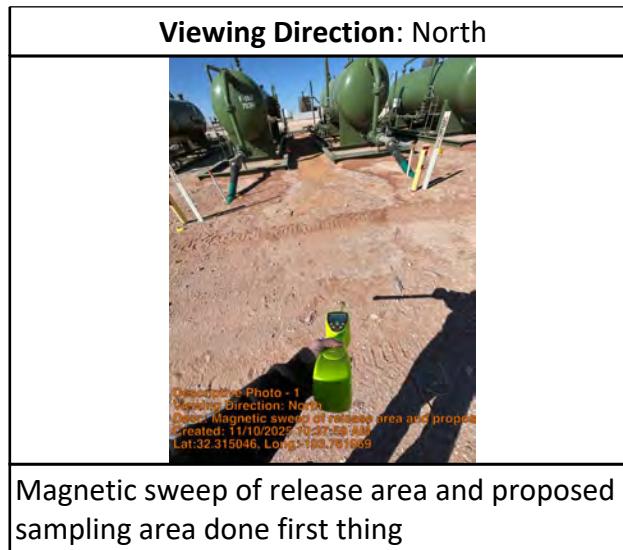
Next Steps & Recommendations

1 Send samples to lab



Daily Site Visit Report

Site Photos

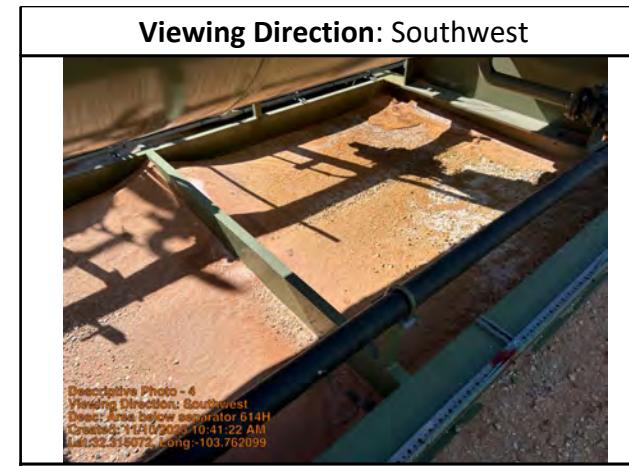




Daily Site Visit Report



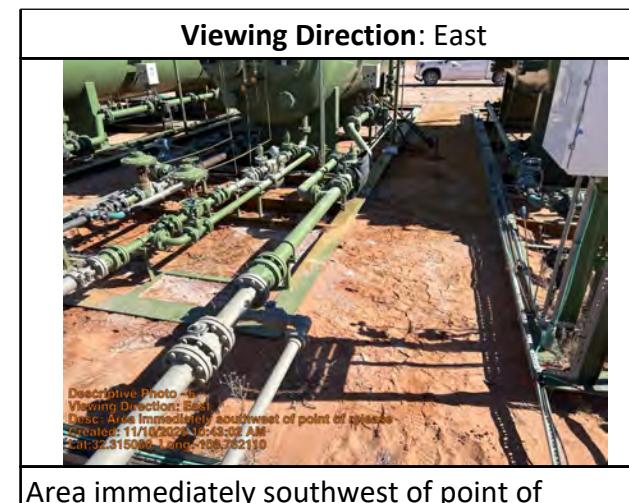
Release area between 106/614H separator to south and 104/814H to north. May need to advance north delineation point north of 104/814H separator.



Area below separator 614H



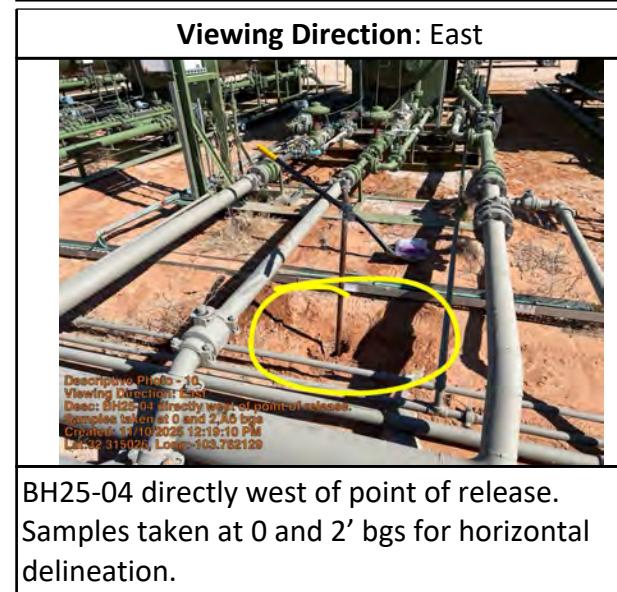
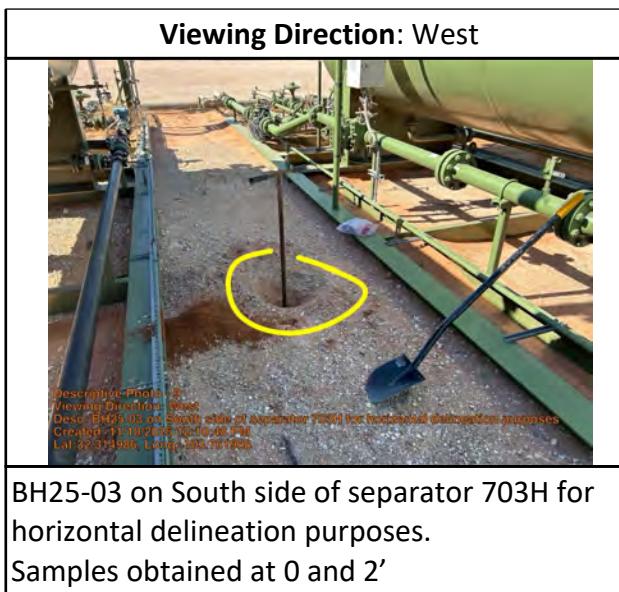
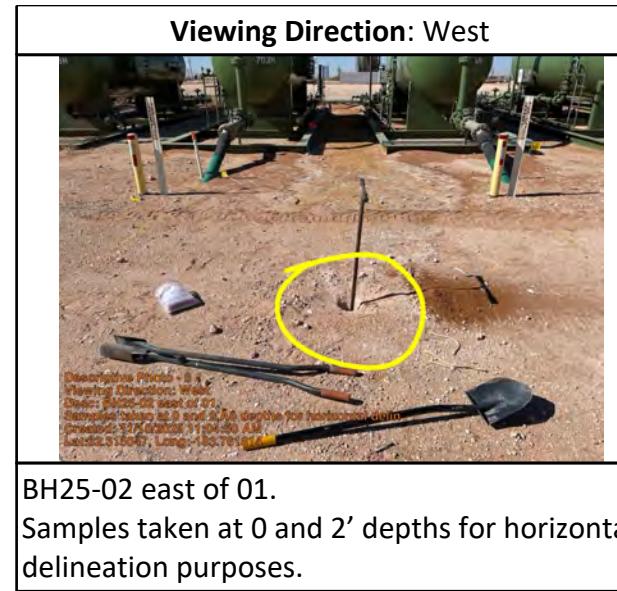
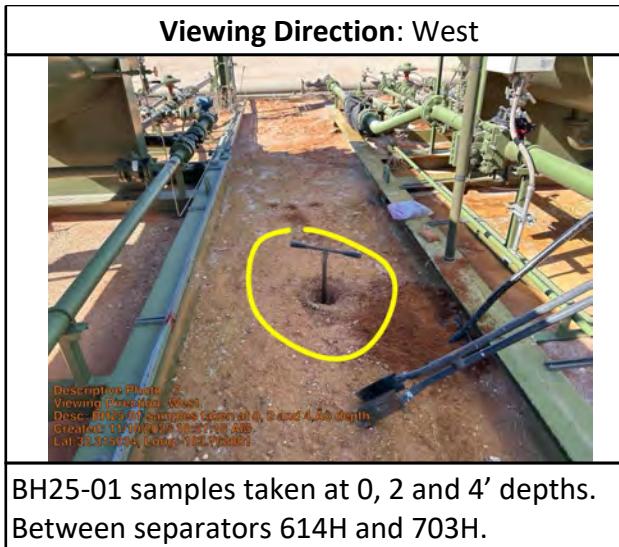
Area immediately west of 614H separator



Area immediately southwest of point of release. BH25-01 between 614H and 703H for vertical delineation.

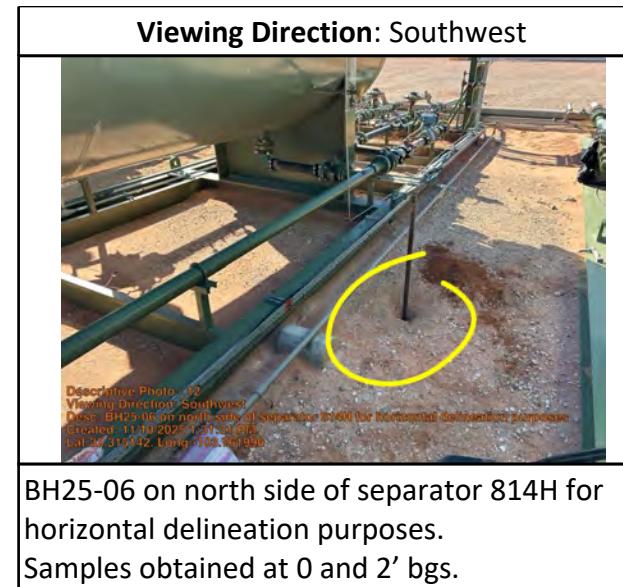
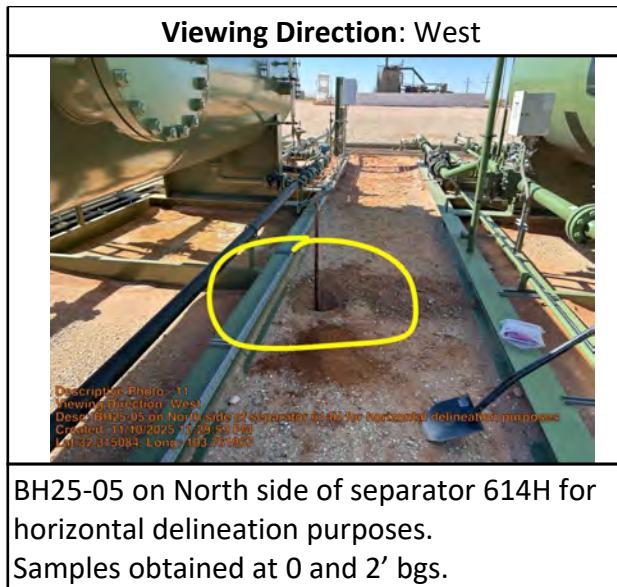


Daily Site Visit Report





Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

A handwritten signature in black ink, appearing to read 'AH'.

Signature

ATTACHMENT 4



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar

Vertex

3101 Boyd Dr

Carlsbad, New Mexico 88220

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JOB DESCRIPTION

Aleutian 10 CTB 2

JOB NUMBER

885-37631-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

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Client: Vertex
Project/Site: Aleutian 10 CTB 2

Laboratory Job ID: 885-37631-1

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Definitions/Glossary

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Glossary

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

Eurofins Albuquerque

Case Narrative

Client: Vertex
Project: Aleutian 10 CTB 2

Job ID: 885-37631-1

Job ID: 885-37631-1**Eurofins Albuquerque****Job Narrative
885-37631-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/13/2025 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-01 0'
 Date Collected: 11/10/25 10:00
 Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-1
 Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 13:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Ethylbenzene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Toluene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 13:50	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		11/17/25 14:46	11/18/25 20:33	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			11/17/25 14:46	11/18/25 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12000		99	mg/Kg		11/18/25 10:26	11/20/25 10:15	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-01 4'
 Date Collected: 11/10/25 10:20
 Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-2
 Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 15:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 15:02	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		11/17/25 14:46	11/18/25 20:45	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/17/25 14:46	11/18/25 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			11/17/25 14:46	11/18/25 20:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		50	mg/Kg		11/18/25 10:26	11/18/25 13:03	10

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Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-02 0'
 Date Collected: 11/10/25 10:30
 Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-3
 Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 150			11/17/25 11:53	11/18/25 16:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Xylenes, Total	ND		0.098	mg/Kg		11/17/25 11:53	11/18/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 16:13	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		11/17/25 14:46	11/18/25 20:56	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/17/25 14:46	11/18/25 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			11/17/25 14:46	11/18/25 20:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		11/18/25 10:26	11/18/25 13:57	10

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Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-02 2'**Lab Sample ID: 885-37631-4**

Matrix: Solid

Date Collected: 11/10/25 10:40
 Date Received: 11/13/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			11/17/25 11:53	11/18/25 16:37	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/17/25 14:46	11/18/25 21:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 21:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			11/17/25 14:46	11/18/25 21:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		11/18/25 10:26	11/18/25 14:08	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-03 0'
 Date Collected: 11/10/25 10:50
 Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-5
 Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 17:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Ethylbenzene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Toluene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Xylenes, Total	ND		0.10	mg/Kg		11/17/25 11:53	11/18/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 17:01	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/17/25 14:46	11/18/25 21:20	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		11/18/25 10:26	11/18/25 14:19	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-03 2'**Lab Sample ID: 885-37631-6**

Matrix: Solid

Date Collected: 11/10/25 11:00
 Date Received: 11/13/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 150			11/17/25 11:53	11/18/25 17:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Ethylbenzene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Toluene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Xylenes, Total	ND		0.096	mg/Kg		11/17/25 11:53	11/18/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 17:24	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		11/17/25 14:46	11/18/25 21:31	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		11/17/25 14:46	11/18/25 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		11/18/25 10:26	11/18/25 14:30	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-04 0'
 Date Collected: 11/10/25 11:10
 Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-7
 Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			11/17/25 11:53	11/18/25 17:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Xylenes, Total	ND		0.099	mg/Kg		11/17/25 11:53	11/18/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			11/17/25 11:53	11/18/25 17:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/17/25 14:46	11/18/25 21:43	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/17/25 14:46	11/18/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51	mg/Kg		11/18/25 10:26	11/18/25 14:41	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-04 2'**Lab Sample ID: 885-37631-8**

Matrix: Solid

Date Collected: 11/10/25 11:20
 Date Received: 11/13/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			11/17/25 11:53	11/18/25 18:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Ethylbenzene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Toluene	ND		0.048	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Xylenes, Total	ND		0.096	mg/Kg		11/17/25 11:53	11/18/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			11/17/25 11:53	11/18/25 18:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		11/17/25 14:46	11/18/25 21:55	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		11/17/25 14:46	11/18/25 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			11/17/25 14:46	11/18/25 21:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		49	mg/Kg		11/18/25 10:26	11/18/25 14:52	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-06 0'
 Date Collected: 11/10/25 11:40
 Date Received: 11/13/25 07:50

Lab Sample ID: 885-37631-9
 Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			11/17/25 11:53	11/18/25 18:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Xylenes, Total	ND		0.097	mg/Kg		11/17/25 11:53	11/18/25 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			11/17/25 11:53	11/18/25 18:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		11/17/25 14:46	11/18/25 22:18	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		11/17/25 14:46	11/18/25 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			11/17/25 14:46	11/18/25 22:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		49	mg/Kg		11/18/25 10:26	11/18/25 15:02	10

Eurofins Albuquerque

Client Sample Results

Client: Vertex
 Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-06 2'**Lab Sample ID: 885-37631-10**

Matrix: Solid

Date Collected: 11/10/25 11:50
 Date Received: 11/13/25 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			11/17/25 11:53	11/18/25 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Ethylbenzene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Toluene	ND		0.049	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Xylenes, Total	ND		0.098	mg/Kg		11/17/25 11:53	11/18/25 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			11/17/25 11:53	11/18/25 18:59	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		11/17/25 14:46	11/18/25 22:30	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/17/25 14:46	11/18/25 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			11/17/25 14:46	11/18/25 22:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		11/18/25 10:26	11/18/25 15:13	10

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-38588/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38642

Prep Batch: 38588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		11/17/25 11:53	11/18/25 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		15 - 150	11/17/25 11:53	11/18/25 13:27	1

Lab Sample ID: LCS 885-38588/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38642

Prep Batch: 38588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.9		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	216		15 - 150

Lab Sample ID: 885-37631-1 MS

Client Sample ID: BH25-01 0'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38642

Prep Batch: 38588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.4	16.9		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	184		15 - 150

Lab Sample ID: 885-37631-1 MSD

Client Sample ID: BH25-01 0'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38642

Prep Batch: 38588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.3	18.6		mg/Kg		77	70 - 130	10	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	189		15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-38588/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38643

Prep Batch: 38588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Ethylbenzene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Toluene	ND		0.050	mg/Kg		11/17/25 11:53	11/18/25 13:27	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

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

Lab Sample ID: MB 885-38588/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38643

Prep Batch: 38588

Analyte	MB	MB	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Xylenes, Total	ND				0.10	mg/Kg		11/17/25 11:53	11/18/25 13:27	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Unit	D	Prepared	Analyzed	Dil Fac
	107				15 - 150					

Lab Sample ID: LCS 885-38588/3-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38643

Prep Batch: 38588

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Added	Result				
Benzene	1.00	0.949		mg/Kg		95	70 - 130
Ethylbenzene	1.00	0.951		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	2.00	1.90		mg/Kg		95	70 - 130
o-Xylene	1.00	0.934		mg/Kg		93	70 - 130
Toluene	1.00	0.946		mg/Kg		95	70 - 130
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	D	%Rec
	108				15 - 150		

Lab Sample ID: 885-37631-2 MS

Client Sample ID: BH25-01 4'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38643

Prep Batch: 38588

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		0.990	0.902		mg/Kg		91	70 - 130
Ethylbenzene	ND		0.990	0.910		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	ND		1.98	1.83		mg/Kg		92	70 - 130
o-Xylene	ND		0.990	0.892		mg/Kg		90	70 - 130
Toluene	ND		0.990	0.920		mg/Kg		93	70 - 130
Surrogate	MS	MS	%Recovery	Qualifier	Limits	D	%Rec	Limits	Dil Fac
	108				15 - 150				

Lab Sample ID: 885-37631-2 MSD

Client Sample ID: BH25-01 4'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38643

Prep Batch: 38588

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		0.990	0.889		mg/Kg		90	70 - 130	1	20
Ethylbenzene	ND		0.990	0.901		mg/Kg		91	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.98	1.83		mg/Kg		93	70 - 130	0	20
o-Xylene	ND		0.990	0.904		mg/Kg		91	70 - 130	1	20
Toluene	ND		0.990	0.907		mg/Kg		92	70 - 130	1	20
Surrogate	MSD	MSD	%Recovery	Qualifier	Limits	D	%Rec	Limits	RPD	Limit	Dil Fac
	106				15 - 150						

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QC Sample Results

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-38606/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38620

Prep Batch: 38606

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		11/17/25 14:46	11/18/25 20:10	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		11/17/25 14:46	11/18/25 20:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Di-n-octyl phthalate (Sur)	89		62 - 134	11/17/25 14:46	11/18/25 20:10	1

Lab Sample ID: LCS 885-38606/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38620

Prep Batch: 38606

Analyte	MB	MB	Spike	LCS	LCS	Unit	D	%Rec
	Result	Qualifier						
Diesel Range Organics [C10-C28]			50.0	58.2		mg/Kg		
							116	51 - 148

Surrogate	MB	MB	Spike	LCS	LCS	Unit	D	%Rec
	%Recovery	Qualifier						
Di-n-octyl phthalate (Sur)	107			62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-38640/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38640

Prep Batch: 38640

Analyte	MB	MB	Spike	LCS	LCS	Unit	D	%Rec
	Result	Qualifier						
Chloride	ND		4.9			mg/Kg		

Lab Sample ID: LCS 885-38640/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38640

Prep Batch: 38640

Analyte	MB	MB	Spike	LCS	LCS	Unit	D	%Rec
	Result	Qualifier						
Chloride			49.7	49.4		mg/Kg		

Lab Sample ID: 885-37631-2 MS

Client Sample ID: BH25-01 4'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38640

Prep Batch: 38640

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec
	Result	Qualifier						
Chloride	140		49.2	180		mg/Kg		

Lab Sample ID: 885-37631-2 MSD

Client Sample ID: BH25-01 4'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 38640

Prep Batch: 38640

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec
	Result	Qualifier						
Chloride	140		49.5	180		mg/Kg		

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

GC VOA

Prep Batch: 38588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	5030C	
885-37631-2	BH25-01 4'	Total/NA	Solid	5030C	
885-37631-3	BH25-02 0'	Total/NA	Solid	5030C	
885-37631-4	BH25-02 2'	Total/NA	Solid	5030C	
885-37631-5	BH25-03 0'	Total/NA	Solid	5030C	
885-37631-6	BH25-03 2'	Total/NA	Solid	5030C	
885-37631-7	BH25-04 0'	Total/NA	Solid	5030C	
885-37631-8	BH25-04 2'	Total/NA	Solid	5030C	
885-37631-9	BH25-06 0'	Total/NA	Solid	5030C	
885-37631-10	BH25-06 2'	Total/NA	Solid	5030C	
MB 885-38588/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-38588/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-38588/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-37631-1 MS	BH25-01 0'	Total/NA	Solid	5030C	
885-37631-1 MSD	BH25-01 0'	Total/NA	Solid	5030C	
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	5030C	
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	5030C	

Analysis Batch: 38642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	8015M/D	38588
885-37631-2	BH25-01 4'	Total/NA	Solid	8015M/D	38588
885-37631-3	BH25-02 0'	Total/NA	Solid	8015M/D	38588
885-37631-4	BH25-02 2'	Total/NA	Solid	8015M/D	38588
885-37631-5	BH25-03 0'	Total/NA	Solid	8015M/D	38588
885-37631-6	BH25-03 2'	Total/NA	Solid	8015M/D	38588
885-37631-7	BH25-04 0'	Total/NA	Solid	8015M/D	38588
885-37631-8	BH25-04 2'	Total/NA	Solid	8015M/D	38588
885-37631-9	BH25-06 0'	Total/NA	Solid	8015M/D	38588
885-37631-10	BH25-06 2'	Total/NA	Solid	8015M/D	38588
MB 885-38588/1-A	Method Blank	Total/NA	Solid	8015M/D	38588
LCS 885-38588/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38588
885-37631-1 MS	BH25-01 0'	Total/NA	Solid	8015M/D	38588
885-37631-1 MSD	BH25-01 0'	Total/NA	Solid	8015M/D	38588

Analysis Batch: 38643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	8021B	38588
885-37631-2	BH25-01 4'	Total/NA	Solid	8021B	38588
885-37631-3	BH25-02 0'	Total/NA	Solid	8021B	38588
885-37631-4	BH25-02 2'	Total/NA	Solid	8021B	38588
885-37631-5	BH25-03 0'	Total/NA	Solid	8021B	38588
885-37631-6	BH25-03 2'	Total/NA	Solid	8021B	38588
885-37631-7	BH25-04 0'	Total/NA	Solid	8021B	38588
885-37631-8	BH25-04 2'	Total/NA	Solid	8021B	38588
885-37631-9	BH25-06 0'	Total/NA	Solid	8021B	38588
885-37631-10	BH25-06 2'	Total/NA	Solid	8021B	38588
MB 885-38588/1-A	Method Blank	Total/NA	Solid	8021B	38588
LCS 885-38588/3-A	Lab Control Sample	Total/NA	Solid	8021B	38588
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	8021B	38588
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	8021B	38588

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

GC Semi VOA

Prep Batch: 38606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	SHAKE	
885-37631-2	BH25-01 4'	Total/NA	Solid	SHAKE	
885-37631-3	BH25-02 0'	Total/NA	Solid	SHAKE	
885-37631-4	BH25-02 2'	Total/NA	Solid	SHAKE	
885-37631-5	BH25-03 0'	Total/NA	Solid	SHAKE	
885-37631-6	BH25-03 2'	Total/NA	Solid	SHAKE	
885-37631-7	BH25-04 0'	Total/NA	Solid	SHAKE	
885-37631-8	BH25-04 2'	Total/NA	Solid	SHAKE	
885-37631-9	BH25-06 0'	Total/NA	Solid	SHAKE	
885-37631-10	BH25-06 2'	Total/NA	Solid	SHAKE	
MB 885-38606/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-38606/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 38620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	8015M/D	38606
885-37631-2	BH25-01 4'	Total/NA	Solid	8015M/D	38606
885-37631-3	BH25-02 0'	Total/NA	Solid	8015M/D	38606
885-37631-4	BH25-02 2'	Total/NA	Solid	8015M/D	38606
885-37631-5	BH25-03 0'	Total/NA	Solid	8015M/D	38606
885-37631-6	BH25-03 2'	Total/NA	Solid	8015M/D	38606
885-37631-7	BH25-04 0'	Total/NA	Solid	8015M/D	38606
885-37631-8	BH25-04 2'	Total/NA	Solid	8015M/D	38606
885-37631-9	BH25-06 0'	Total/NA	Solid	8015M/D	38606
885-37631-10	BH25-06 2'	Total/NA	Solid	8015M/D	38606
MB 885-38606/1-A	Method Blank	Total/NA	Solid	8015M/D	38606
LCS 885-38606/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38606

HPLC/IC

Prep Batch: 38640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	300_Prep	
885-37631-2	BH25-01 4'	Total/NA	Solid	300_Prep	
885-37631-3	BH25-02 0'	Total/NA	Solid	300_Prep	
885-37631-4	BH25-02 2'	Total/NA	Solid	300_Prep	
885-37631-5	BH25-03 0'	Total/NA	Solid	300_Prep	
885-37631-6	BH25-03 2'	Total/NA	Solid	300_Prep	
885-37631-7	BH25-04 0'	Total/NA	Solid	300_Prep	
885-37631-8	BH25-04 2'	Total/NA	Solid	300_Prep	
885-37631-9	BH25-06 0'	Total/NA	Solid	300_Prep	
885-37631-10	BH25-06 2'	Total/NA	Solid	300_Prep	
MB 885-38640/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-38640/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	300_Prep	
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	300_Prep	

Analysis Batch: 38648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-2	BH25-01 4'	Total/NA	Solid	300.0	38640
885-37631-3	BH25-02 0'	Total/NA	Solid	300.0	38640

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

HPLC/IC (Continued)

Analysis Batch: 38648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-4	BH25-02 2'	Total/NA	Solid	300.0	38640
885-37631-5	BH25-03 0'	Total/NA	Solid	300.0	38640
885-37631-6	BH25-03 2'	Total/NA	Solid	300.0	38640
885-37631-7	BH25-04 0'	Total/NA	Solid	300.0	38640
885-37631-8	BH25-04 2'	Total/NA	Solid	300.0	38640
885-37631-9	BH25-06 0'	Total/NA	Solid	300.0	38640
885-37631-10	BH25-06 2'	Total/NA	Solid	300.0	38640
MB 885-38640/1-A	Method Blank	Total/NA	Solid	300.0	38640
LCS 885-38640/2-A	Lab Control Sample	Total/NA	Solid	300.0	38640
885-37631-2 MS	BH25-01 4'	Total/NA	Solid	300.0	38640
885-37631-2 MSD	BH25-01 4'	Total/NA	Solid	300.0	38640

Analysis Batch: 38764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37631-1	BH25-01 0'	Total/NA	Solid	300.0	38640

Eurofins Albuquerque

Lab Chronicle

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Client Sample ID: BH25-01 0'**Lab Sample ID: 885-37631-1**

Matrix: Solid

Date Collected: 11/10/25 10:00

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 13:50
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 13:50
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 20:33
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		20	38764	MA	EET ALB	11/20/25 10:15

Client Sample ID: BH25-01 4'**Lab Sample ID: 885-37631-2**

Matrix: Solid

Date Collected: 11/10/25 10:20

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 15:02
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 15:02
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 20:45
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 13:03

Client Sample ID: BH25-02 0'**Lab Sample ID: 885-37631-3**

Matrix: Solid

Date Collected: 11/10/25 10:30

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 16:13
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 16:13
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 20:56
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 13:57

Client Sample ID: BH25-02 2'**Lab Sample ID: 885-37631-4**

Matrix: Solid

Date Collected: 11/10/25 10:40

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 16:37

Eurofins Albuquerque

Lab Chronicle

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Client Sample ID: BH25-02 2'**Lab Sample ID: 885-37631-4**

Matrix: Solid

Date Collected: 11/10/25 10:40

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 16:37
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:08
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:08

Client Sample ID: BH25-03 0'**Lab Sample ID: 885-37631-5**

Matrix: Solid

Date Collected: 11/10/25 10:50

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 17:01
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 17:01
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:20
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:19

Client Sample ID: BH25-03 2'**Lab Sample ID: 885-37631-6**

Matrix: Solid

Date Collected: 11/10/25 11:00

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 17:24
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 17:24
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:31
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:30

Client Sample ID: BH25-04 0'**Lab Sample ID: 885-37631-7**

Matrix: Solid

Date Collected: 11/10/25 11:10

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 17:48
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 17:48

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Aleutian 10 CTB 2

Job ID: 885-37631-1

Client Sample ID: BH25-04 0'**Lab Sample ID: 885-37631-7**

Matrix: Solid

Date Collected: 11/10/25 11:10
Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:43
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:41

Client Sample ID: BH25-04 2'**Lab Sample ID: 885-37631-8**

Matrix: Solid

Date Collected: 11/10/25 11:20
Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 18:12
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 18:12
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 21:55
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 14:52

Client Sample ID: BH25-06 0'**Lab Sample ID: 885-37631-9**

Matrix: Solid

Date Collected: 11/10/25 11:40
Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 18:36
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 18:36
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 22:18
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 15:02

Client Sample ID: BH25-06 2'**Lab Sample ID: 885-37631-10**

Matrix: Solid

Date Collected: 11/10/25 11:50
Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8015M/D		1	38642	VP	EET ALB	11/18/25 18:59
Total/NA	Prep	5030C			38588	VP	EET ALB	11/17/25 11:53
Total/NA	Analysis	8021B		1	38643	VP	EET ALB	11/18/25 18:59
Total/NA	Prep	SHAKE			38606	BV	EET ALB	11/17/25 14:46
Total/NA	Analysis	8015M/D		1	38620	BV	EET ALB	11/18/25 22:30

Eurofins Albuquerque

Lab Chronicle

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Client Sample ID: BH25-06 2'**Lab Sample ID: 885-37631-10**

Date Collected: 11/10/25 11:50

Matrix: Solid

Date Received: 11/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			38640	JR	EET ALB	11/18/25 10:26
Total/NA	Analysis	300.0		10	38648	EH	EET ALB	11/18/25 15:13

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Eurofins Albuquerque

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Accreditation/Certification Summary

Client: Vertex

Job ID: 885-37631-1

Project/Site: Aleutian 10 CTB 2

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Eurofins Albuquerque

Chain-of-Custody Record

Client: Vertex
 Direct bill Devon
 Mailing Address:
 Phone #:
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush 5 Days
 Project Name: Aleutian 10 CTB 2
 Project #: 25A-05838



HALL ENVIRONMENTAL
 ANALYSIS LABOR

www.hallenvironmental.com



4901 Hawkins NE - Albuquerque, NM 871 865-37631 COC

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Total Collection (Present/Absent)

8270 (Semi-VOA)

8260 (VOA)
 RCRA 8 Metals

PAHS by 8310 or 8270 SIMS
 EDB (Method 504.1)

8081 Pesticides/8082 PCB's

TPH815(GRO/DRO/MRO)
 BTEX/TMB's (8021)

Project Manager: Sally Carter
 Sampler: A14
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 29+0.2 = 3.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10-25	1000	So, 1	BH25-01	0	402	ICE
	1020		BH25-01	4		
	1030		BH25-02	0		
	1040		BH25-02	2		
	1050		BH25-03	0		
	1100		BH25-03	2		
	1110		BH25-04	0		
	1120		BH25-04	2		
	1140		BH25-06	0		
	1150		BH25-06	2		

Date: 11-25	Time: 18:00	Relinquished by: <i>John</i>	Received by: <i>Acunningham</i>	Via: <i>Delivery</i>	Date: 11/12/25	Time: 8:15	Remarks: CC: <i>Scatter@vertexresource.com</i> <i>Permian@vertexresource.com</i> <i>aharris@vertexresource.com</i>
Date: 11-26	Time: 19:00	Relinquished by: <i>Acunningham</i>	Received by: <i>John</i>	Via: <i>Delivery</i>	Date: 11/13/25	Time: 7:50	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

W# 21732872
 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-37631-1

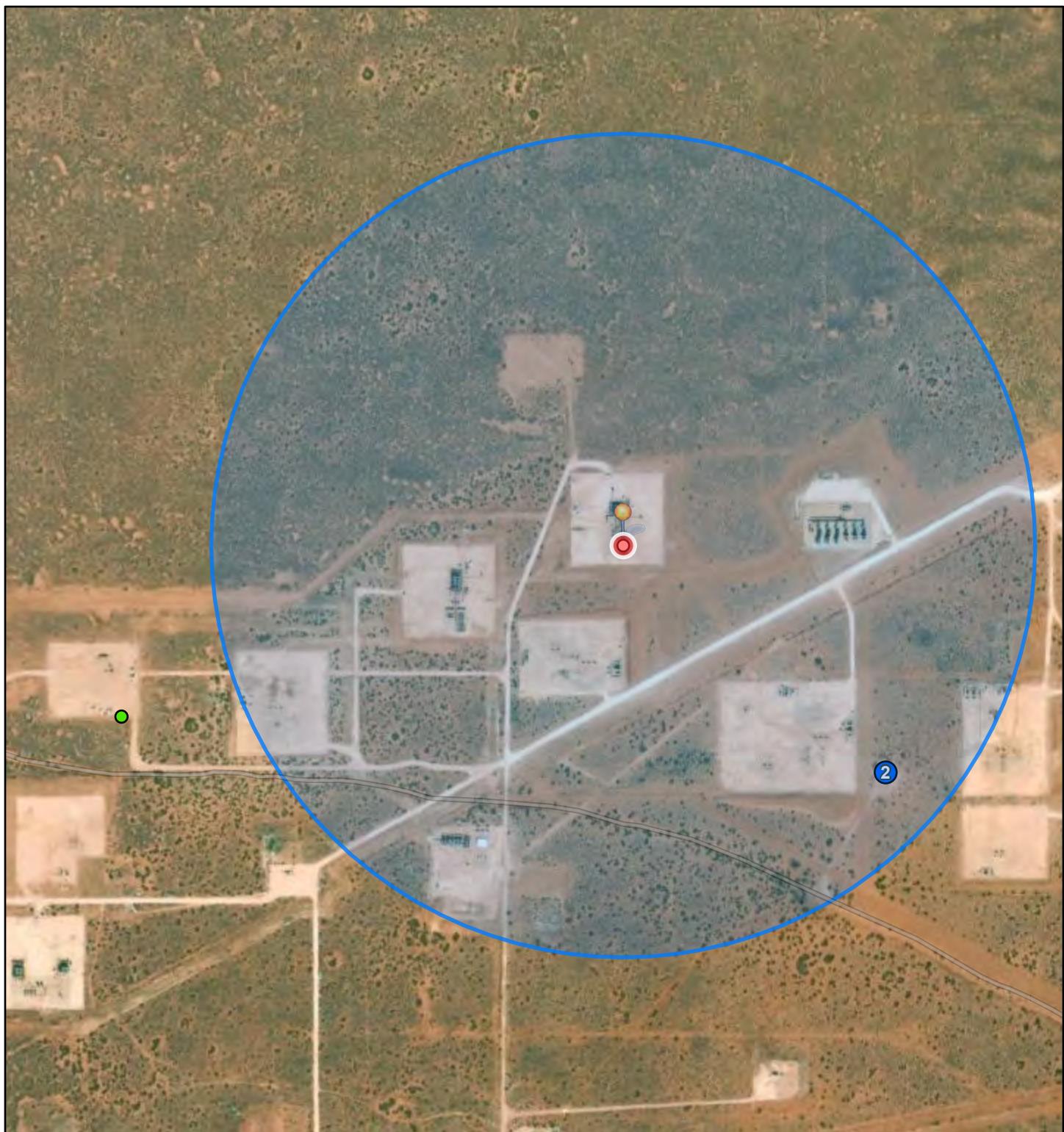
Login Number: 37631**List Source: Eurofins Albuquerque****List Number: 1****Creator: Casarrubias, Tracy**

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

ATTACHMENT 5

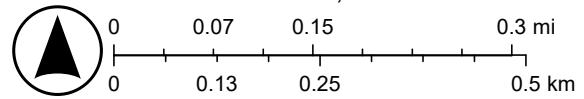
Closure Criteria Determination						
Site Name: Aleutian 10 CTB 2						
Spill Coordinates: 32.3150521,-103.7620247		X: 616536	Y: 3576031			
Site Specific Conditions		Value	Unit			
1	Depth to Groundwater (nearest reference)	639	feet			
	Distance between release and nearest DTGW reference	1,878	feet			
	Date of nearest DTGW reference measurement	0.35	miles			
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	August 6, 2014	feet	4,640	feet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)		feet	6,930	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church		feet	15,366	feet	4
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or		feet	8,017	feet	5
	ii) Within 1000 feet of any fresh water well or spring		feet	1,878	feet	5
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves		(Y/N)	No	(Y/N)	6
7	Within 300 feet of a wetland		feet	7,440	feet	7
8	Within the area overlying a subsurface mine		(Y/N)	No	(Y/N)	8
	Distance between release and nearest registered mine		feet	40,000	feet	
9	Within an unstable area (Karst Map)		Critical High Medium Low	Low	Critical High Medium Low	9
	Distance between release and nearest unstable area		feet	15,130	feet	
10	Within a 100-year Floodplain		year	>500	year	10
	Distance between release and nearest FEMA Zone A (100-year Floodplain)		feet	47,072	feet	
11	Soil Type	Kermit-Berino fine sands			11	
12	Ecological Classification	Deep Sand			12	
13	Geology	Eolian and piedmont deposits			13	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'			

OSE POD 0.5 miles



11/23/2025, 6:33:10 PM

1:10,850



GIS WATERS PODS		
● Pending	● Unknown	● Unknown
● Active	● Pending	● World Imagery
● Inactive	● Active	● Low Resolution 15m Imagery
● Changed Location of Well	● Inactive	● High Resolution 60cm Imagery
● Capped	● Changed Location of Well	● High Resolution 30cm Imagery
● Plugged	● Capped	● Citations
	● Plugged	● 2.4m Resolution Metadata

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

Water Column/Average Depth to Water

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

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

(quarters are
smallest to largest)

(NAD83 UTM in meters)

(In feet) (In feet) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C_02777		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1		572	890		
C_03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1		572	865	639	226
C_04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7		886	105		
C_04709 POD1		CUB	ED	SW	NW	NW	15	23S	31E	615508.8	3575262.4		1282			
C_02773		CUB	ED	SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		1936	880		
C_04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2		1984	55		

Average Depth to Water: **639 fe**

Minimum Depth: **639 feet**

Maximum Depth: **639 feet**

Record Count: 6

UTM Filters (in meters):

Eastings: 616536

Northing: 3576031

Radius: 002000

* UTM location was derived from PLSS - see Help

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

11/23/25 6:01 PM MST

Water Column/Average Depth to Water

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Point of Diversion Summary

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

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
C 03749	POD1		NE	NE	15	23S	31E	616973.8	3575662.1	

* UTM location was derived from PLSS - see Help

Driller License: 331 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name: RANDY STEWART

Drill Start Date: 2014-07-10 **Drill Finish Date:** 2014-08-06 **Plug Date:**

Log File Date: 2014-09-11 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 5

Casing Size: 4.50 **Depth Well:** 865 **Depth Water:** 639

Water Bearing Stratifications:

Top	Bottom	Description
820	846	Limestone/Dolomite/Chalk

Casing Perforations:

Top	Bottom
820	846

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Water Right Summary



[get image](#)
[list](#)

WR File Number:	C 03749	Subbasin:	CUB	Cross Reference:
Primary Purpose:	MON MONITORING WELL			
Primary Status:	PMT Permit			
Total Acres:			Subfile:	Header:
Total Diversion:	0.000		Cause/Case:	
Owner:	US DEPARTMENT OF ENERGY		Owner Class:	Owner
Contact:	GEORGE BASABILVAZO			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images 548076	548076	EXPL	2014-06-24	PMT	LOG	C 03749 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 03749 POD1	Shallow		NE	NE	15	23S	31E	616973.8	3575662.1		H-12	

* UTM location was derived from PLSS - see Help

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11/23/25 6:18 PM MST

Water Rights Summary

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3749 POD 1 (H12R)				OSE FILE NUMBER(S) C-3749 POD 1			
	WELL OWNER NAME(S) US Dept of Energy				PHONE (OPTIONAL) 575-234-7488			
	WELL OWNER MAILING ADDRESS POB 3090				CITY Carlsbad	STATE NM	ZIP 88221-3090	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	18	MINUTES 42.0588	SECONDS N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	-103	45	26.7078	W	* DATUM REQUIRED: WGS 84	
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE From Jal Hwy take Redd Rd 3 miles north, head west 1 mile on dirt road to H12 Well site							
	LICENSE NUMBER NM 331		NAME OF LICENSED DRILLER Randy Stewart			NAME OF WELL DRILLING COMPANY Stewart Brothers		
	DRILLING STARTED 7/10/14	DRILLING ENDED 8/6/14	DEPTH OF COMPLETED WELL (FT) 865	BORE HOLE DEPTH (FT) 865	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 639			
	DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:								
DEPTH (feet bgl)		BORE HOLE	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM	TO	DIAM. (inches)						
0	40	17 1/2	13 3/8	Weld	12 1/4	.375		
40	820	12 1/4	5" Fiberglass Blank	Threaded	4.5			
820	846	12 1/4	5" Fiberglass Slotted	Threaded	4.5		.070	
846	858	12 1/4	5" Fiberglass Blank	Threaded	4.5			
DEPTH (feet bgl)		BORE HOLE	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL			AMOUNT (cubic feet)	METHOD OF PLACEMENT	
FROM	TO	DIAM. (inches)						
857	865	12 1/4	8/12 Sand			2	Tremie	
851	857	12 1/4	Gelacryl Superflex Seal			1	Tremie	
816	851	12 1/4	8/16 Sand Pack			6	Tremie	
811	816	12 1/4	Fine Sand			1	Tremie	
806	811	12 1/4	Gelacryl Super Flex			1	Tremie	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER C-3749	POD NUMBER 1	TRN NUMBER 548076
LOCATION 4-4-3	235.32 E. 0°	PAGE 1 OF 2

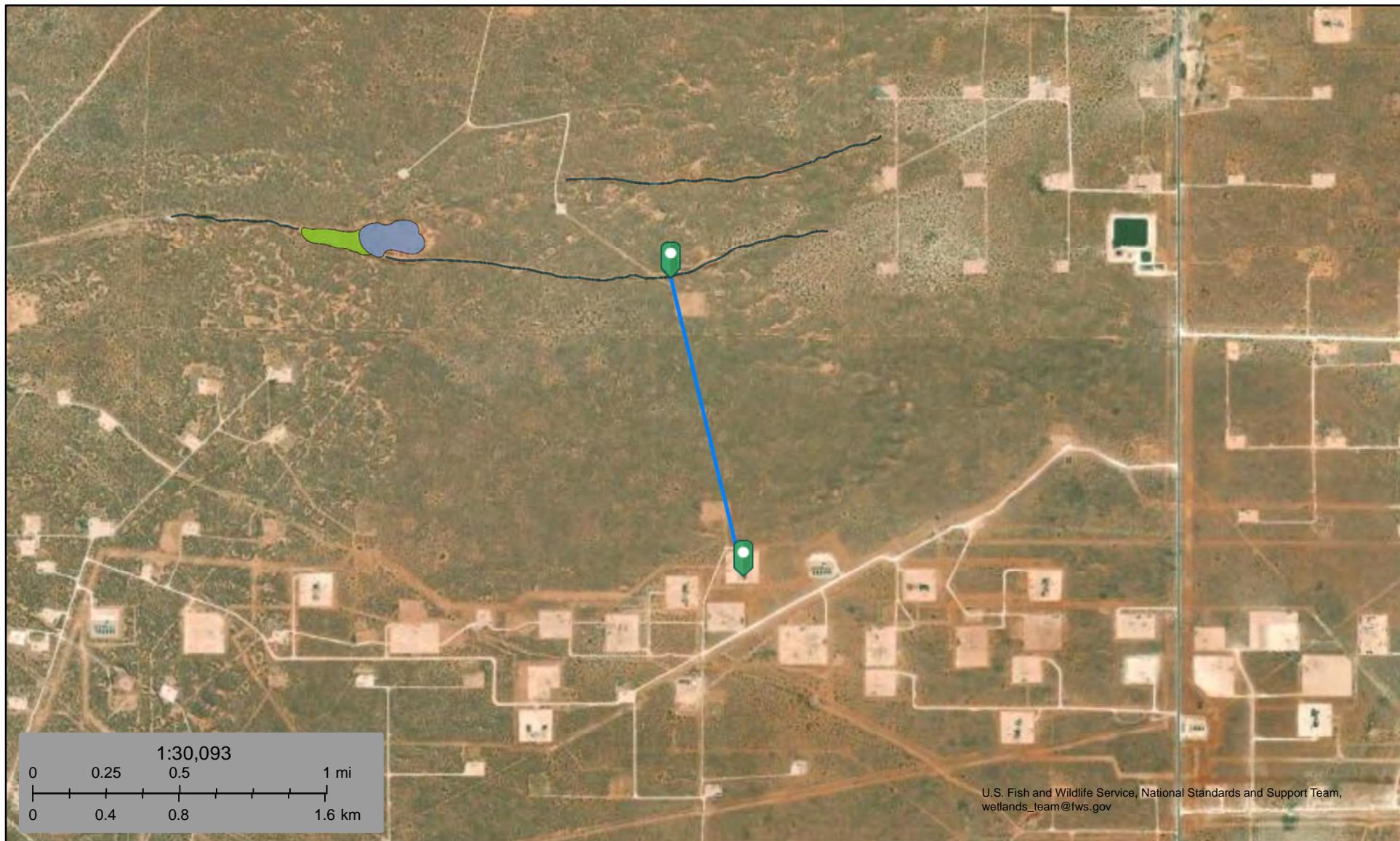
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3749	POD NUMBER	1	TRN NUMBER	548074
LOCATION	4-4-3	235.32 E. 07	PAGE 2 OF 2		



Intermittent 4,640 Feet



November 24, 2025

Wetlands

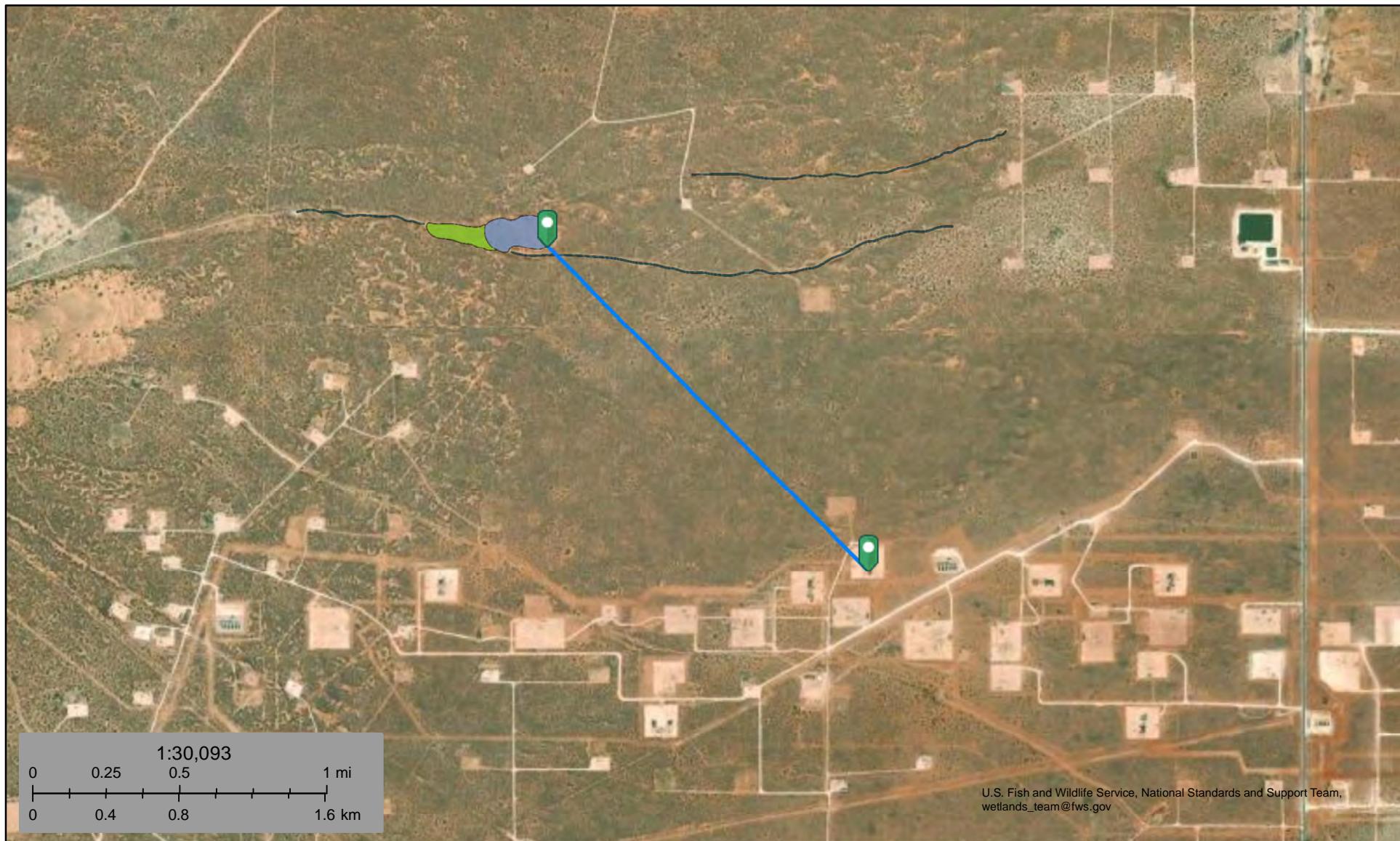
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.



Pond 6,930 feet



November 24, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

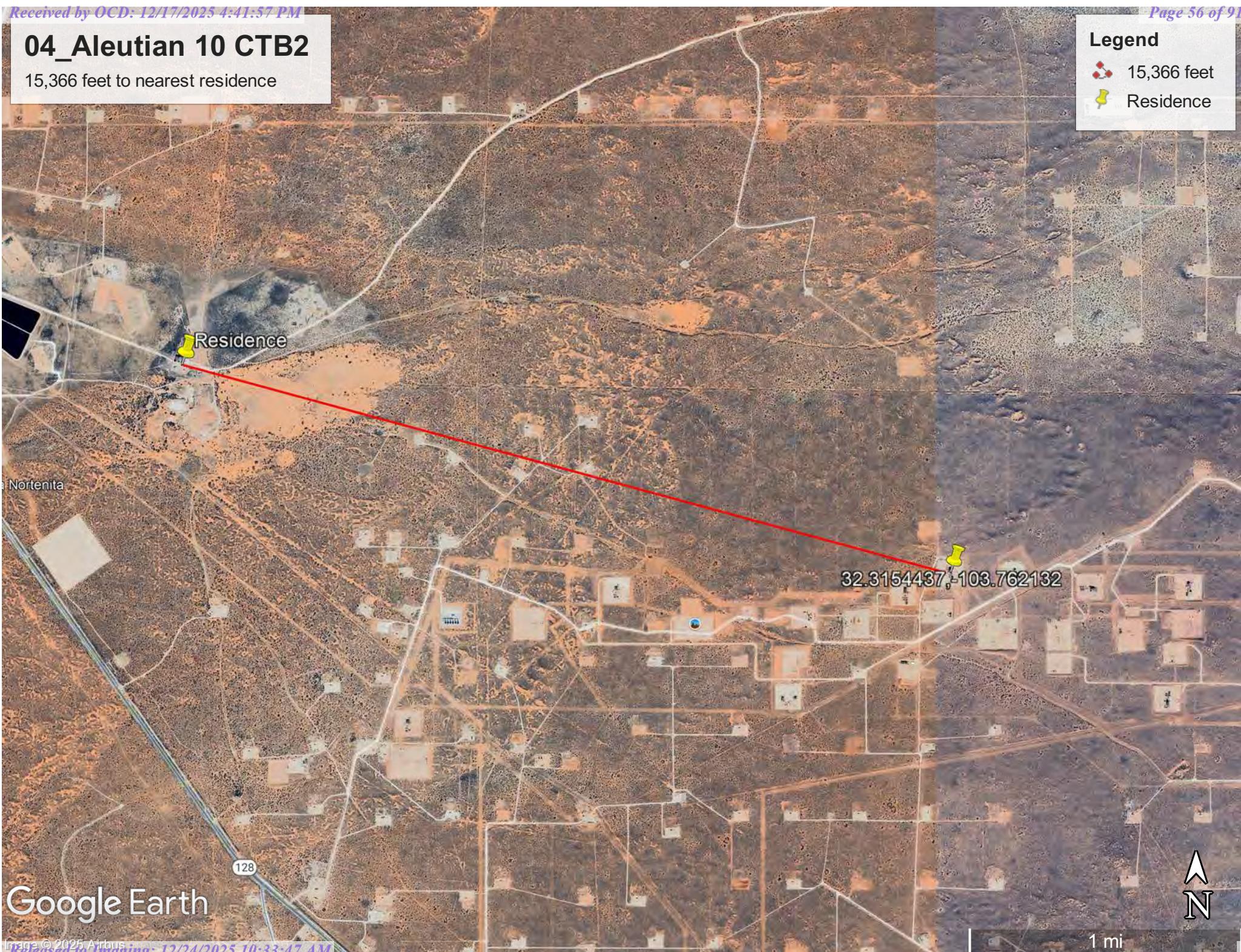
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

04_Aleutian 10 CTB2

15,366 feet to nearest residence

Legend

- 15,366 feet
- Residence



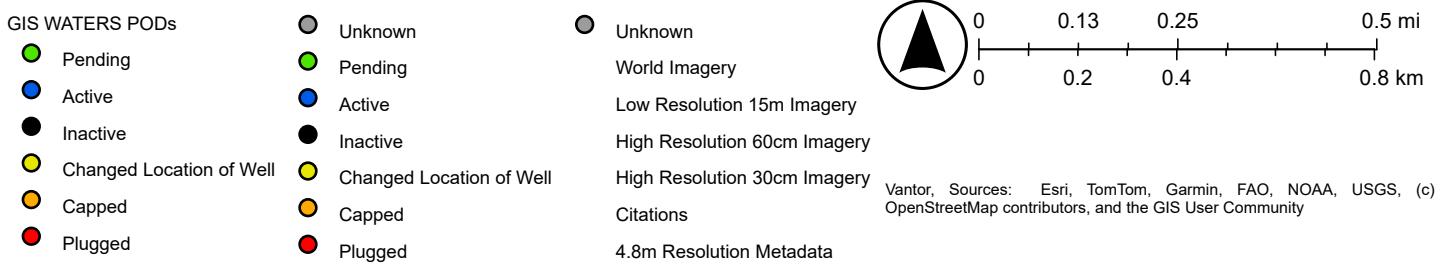
Google Earth

OSE POD



11/23/2025, 6:36:30 PM

1:18,083



Active & Inactive Points of Diversion (with Ownership Information)

										(R=POD has been replaced and no longer serves this file, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)		
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance
C_02777	CUB	MON	0.000	US DEPT OF ENERGY WIPP	ED	C_02777				SE	SE	SE	10	23S	31E	616973.8	3575662.1		572.5	
C_03749	CUB	MON	0.000	US DEPARTMENT OF ENERGY	ED	C_03749 POD1				Shallow	NE	NE	15	23S	31E	616973.8	3575662.1		572.5	
C_04724	CUB	MON	0.000	DEVON ENERGY	ED	C_04724 POD1	NA			SE	SW	SW	10	23S	31E	615709.7	3575738.3		876.6	
C_04855	CUB	MON	0.000	DEVON ENERGY PRODUCTION	ED	C_04855 POD1	NA			NE	SW	SW	11	23S	31E	617417.6	3575936.7		886.6	
C_04709	CUB	MON	0.000	DEVON ENERGY	ED	C_04709 POD1	NA			SW	NW	NW	15	23S	31E	615508.8	3575262.4		1,282.9	
C_02773	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02773				SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		1,936.4	
C_04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C_04712 POD4	NA			NW	SE	SW	14	23S	31E	617535.4	3574316.2		1,984.8	
C_03140	CUB	MON	0.000	US DEPT OF ENERGY	ED	C_03140				Shallow	SE	NE	SE	04	23S	31E	615266.0	3577758.0 *		2,143.7
C_04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C_04712 POD5	NA			SE	SE	SW	09	23S	31E	614392.9	3575754.4		2,160.9	
C_03351	C	STK	3.000	BUREAU OF LAND MANAGEMENT	ED	C_03351				Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		2,443.7
C_04776	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C_04776 POD1	NA			SW	SW	SW	09	23S	31E	613953.1	3575651.8		2,610.6	
C_04774	CUB	MON	0.000	DEVON ENGERGY RESOURCES	ED	C_04774 POD1	NA			SE	NE	NE	23	23S	31E	618456.0	3573856.4		2,900.9	
C_02774	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02774				SW	NW	SW	04	23S	31E	613857.0	3577745.0 *		3,180.4	
C_04704	CUB	MON	0.000	DEVON ENERGY	ED	C_04704 POD1	NA			SW	NE	NE	13	23S	31E	619854.4	3575363.5		3,384.9	
C_04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C_04712 POD6	NA			SW	SW	SE	08	23S	31E	613146.6	3575740.1		3,401.9	
C_02769	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02769 POD2				Artesian	SE	NE	SE	33	22S	31E	615260.6	3579312.3		3,520.5
C_02687	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	C_02687				SE	NE	SE	33	22S	31E	615246.0	3579364.0 *		3,573.9	
C_04897	CUB	MON	0.000	OXY USA INC.	ED	C_04897 POD1	NA			NW	NE	SW	21	23S	31E	614374.0	3573036.6		3,693.3	
C_02767	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02767				SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,734.3	
C_02768	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02768				SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,734.3	
C_02769	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02769				NE	NE	SE	33	22S	31E	615246.0	3579564.0 *		3,761.1	
C_04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C_04712 POD3	NA			SE	NW	NE	24	23S	31E	619650.7	3573877.9		3,786.4	
C_04772	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C_04772 POD1	NA			NW	NW	NW	04	23S	31E	613895.0	3578780.5		3,812.4	
C_02664	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	C_02664				Shallow	SW	SW	NE	05	23S	31E	613049.0	3578138.0 *		4,074.1
C_04726	CUB	MON	0.000	DEVON ENERGY	ED	C_04726 POD1	NA			NW	NW	SE	01	23S	31E	619538.3	3578821.3		4,098.7	
C_03389	C	STK	3.000	JIMMY MILLS 2005 GST TRUST	ED	C_03389				NW	NW	SW	17	23S	31E	612316.0	3574683.0		4,430.1	
C_03394	C	PUB	0.000	JAMES HAMILTON CONSTRUCTION CO	ED	C_03394				NW	NW	SW	17	23S	31E	612316.0	3574683.0		4,430.1	
C_02258	C	PRO	0.000	DEVON ENERGY CORP. (NEVADA)	ED	C_02258				SW	NE	26	23S	31E		618055.0	3571853.0 *		4,445.6	
C_04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C_04200 POD3	NA			NE	NE	07	23S	31E		612130.3	3577147.3		4,544.9	
C_03138	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	C_03138				SW	SW	SW	26	22S	31E	617043.0	3580591.0 *		4,588.1	
C_04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C_04200 POD5	NA			SE	SE	06	23S	31E		612138.8	3577393.1		4,603.3	

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well			Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	(meters)
							Tag	Code	Grant											
C_02954	CUB	EXP	0.000	U.S. DEPARTMENT OF ENERGY CARLSBAD FIELD OFFICE, WIPP	ED	C_02954 EXP1				Shallow	SW	NW	SE	20	23S	31E	613114.0	3572906.0 *		4,634.2
C_02492	CUB	COM	105.000	THE JIMMY MILLS GST TRUST	ED	C_02492				Shallow	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		4,661.8
C_02865	CUB	EXP	0.000	STACY MILLS	ED	C_02865				SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		4,661.8	
C_02752	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02752				SE	SE	SE	28	22S	31E	615232.0	3580571.0 *		4,723.6	
C_04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C_04200 POD2	NA			NE	NE	07	23S	31E	611893.1	3577123.1		4,769.6		
					ED	C_04200 POD4	NA			SE	SE	06	23S	31E	611996.2	3577521.8		4,778.3		
					ED	C_04200 POD1	NA			NE	NE	07	23S	31E	611802.8	3577058.6		4,843.5		
C_03668	C	STK	3.000	J T MILLS 2005 GST TRUST	ED	C_02492 POD2				Shallow	SW	NE	NE	07	23S	31E	611767.4	3576996.6		4,865.4
C_04943	CUB	EXP	0.000	PILOT WATER SOLUTIONS	ED	C_04943 POD1	NA			NE	NE	NE	35	22S	31E	618500.0	3580485.1		4,867.9	
C_02756	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02756				SW	SE	SE	26	22S	31E	618250.0	3580606.0 *		4,885.5	
C_03152	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	C_03152				Shallow	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *		4,885.5
C_02776	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C_02776				NE	NW	NW	05	23S	31E	612440.0	3578731.0 *		4,905.8	

Record Count: 43

Filters Applied:

UTM Filters (in meters):

Easting: 616536

Northing: 3576031

Radius: 005000

Sorted By: Distance

* UTM location was derived from PLSS - see Help

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11/23/25 6:08 PM MST

Active & Inactive Points of Diversion

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
C 02777	SE	SE	SE	SE	10	23S	31E	616973.8	3575662.1	

* UTM location was derived from PLSS - see Help

Driller License: 331 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

Drill Start Date: **Drill Finish Date:** **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.50 **Depth Well:** 890 **Depth Water:**

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Point of Diversion Summary

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Water Right Summary



[get image list](#)

WR File Number:	C 02777		Subbasin:	CUB	Cross Reference:
Primary Purpose:	MON MONITORING WELL				
Primary Status:	PMT Permit				
Total Acres:	0.000		Subfile:	Header:	
Total Diversion:	0.000		Cause/Case:		
Owner:	US DEPT OF ENERGY WIPP		Owner Class:	Owner	
Contact:	GEORGE BASABILVAZO				

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images 478628	478628	REPAR	2011-05-27	PMT	APR	C 02777	T	0.000	0.000	
get images 195802	195802	DCL	2000-11-06	DCL	PRC	C 02777	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 02777			SE	SE	SE	10	23S	31E	616973.8	3575662.1		

* UTM location was derived from PLSS - see Help

Place of Use

Q256	Q64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
SE	SE	SE	10	23S	31E	0.000	0.000	MON		DCL			

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		GW	

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
C 03351	SE	NW	SE	04	23S	31E	614916.6	3577861.1		

* UTM location was derived from PLSS - see Help

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date: 2007-11-20 **Drill Finish Date:** 2007-11-20 **Plug Date:**

Log File Date: 2007-12-04 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 25

Casing Size: 6.63 **Depth Well:** 320 **Depth Water:** 168

Water Bearing Stratifications:

Top	Bottom	Description
240	265	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
152	304

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Water Right Summary



[get image list](#)

WR File Number:	C 03351	Subbasin:	C	Cross Reference:
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING			
Primary Status:	PMT Permit			
Total Acres:			Subfile:	Header:
Total Diversion:	3.000		Cause/Case:	
Owner:	BUREAU OF LAND MANAGEMENT		Owner Class:	Owner
Contact:	STEVE DALY			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images 469289	469289	72121	2007-11-15	PMT	LOG	C 03351	T	3.000		

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 03351		Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		

* UTM location was derived from PLSS - see Help

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Water Rights Summary

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Wetland 7,440 feet



November 24, 2025

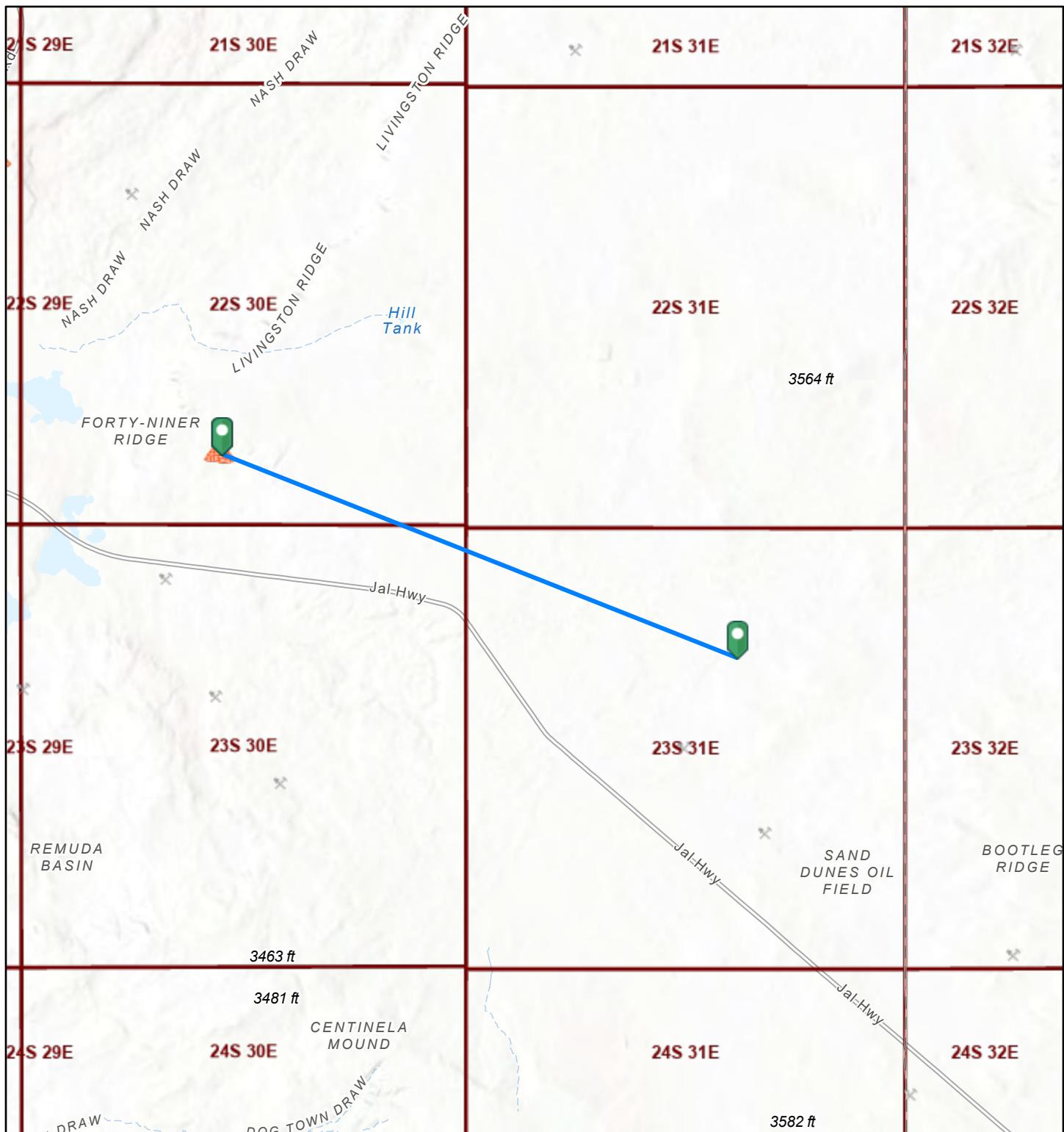
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Lake
- Other
- Freshwater Forested/Shrub Wetland
- Riverine
- Freshwater Pond

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.

Potash, 40,000 feet



11/23/2025, 5:33:12 PM

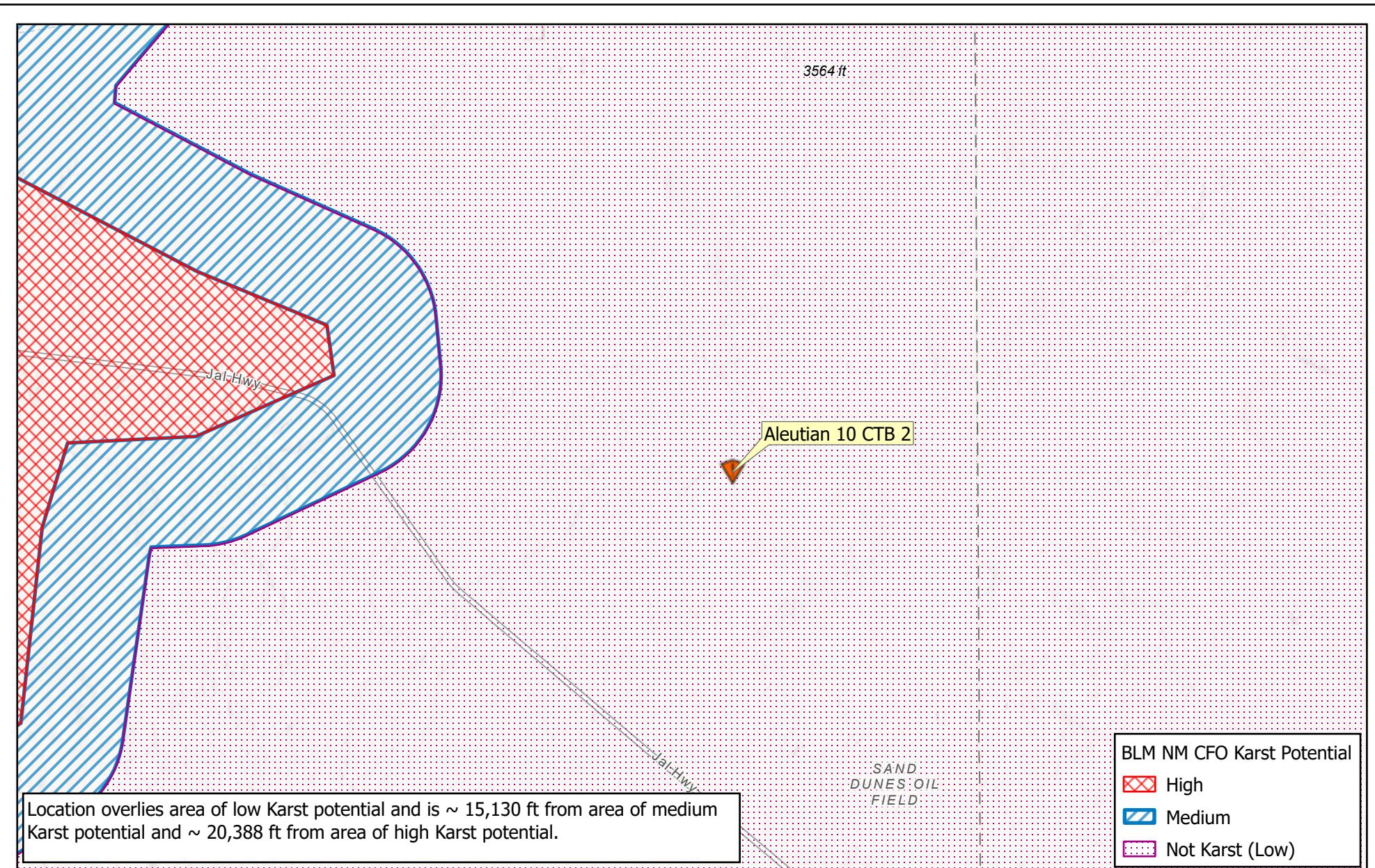
1:144,448

Registered Mines

0 1 2 3 4 mi
0 1.5 3 6 km

- ✖ Aggregate, Stone etc.
- ✖ Aggregate, Stone etc.
- ⚠ Potash
- PLSS Townships

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



0 3,000 6,000 US Feet

Map Center:
Lat/Long: 32.31841°N, 103.768484°W

Date: Nov 10/25

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Karst Potential
Aleutian 10 CTB 2

PLATE:

8

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



103°46'2"W 32°19'11"N



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

OTHER AREAS

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

Channel, Culvert, or Storm Sewer

Levee, Dike, or Floodwall

OTHER FEATURES

Cross Sections with 1% Annual Chance: 20.2, 17.5

Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

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 11/9/2025 at 9:42 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.

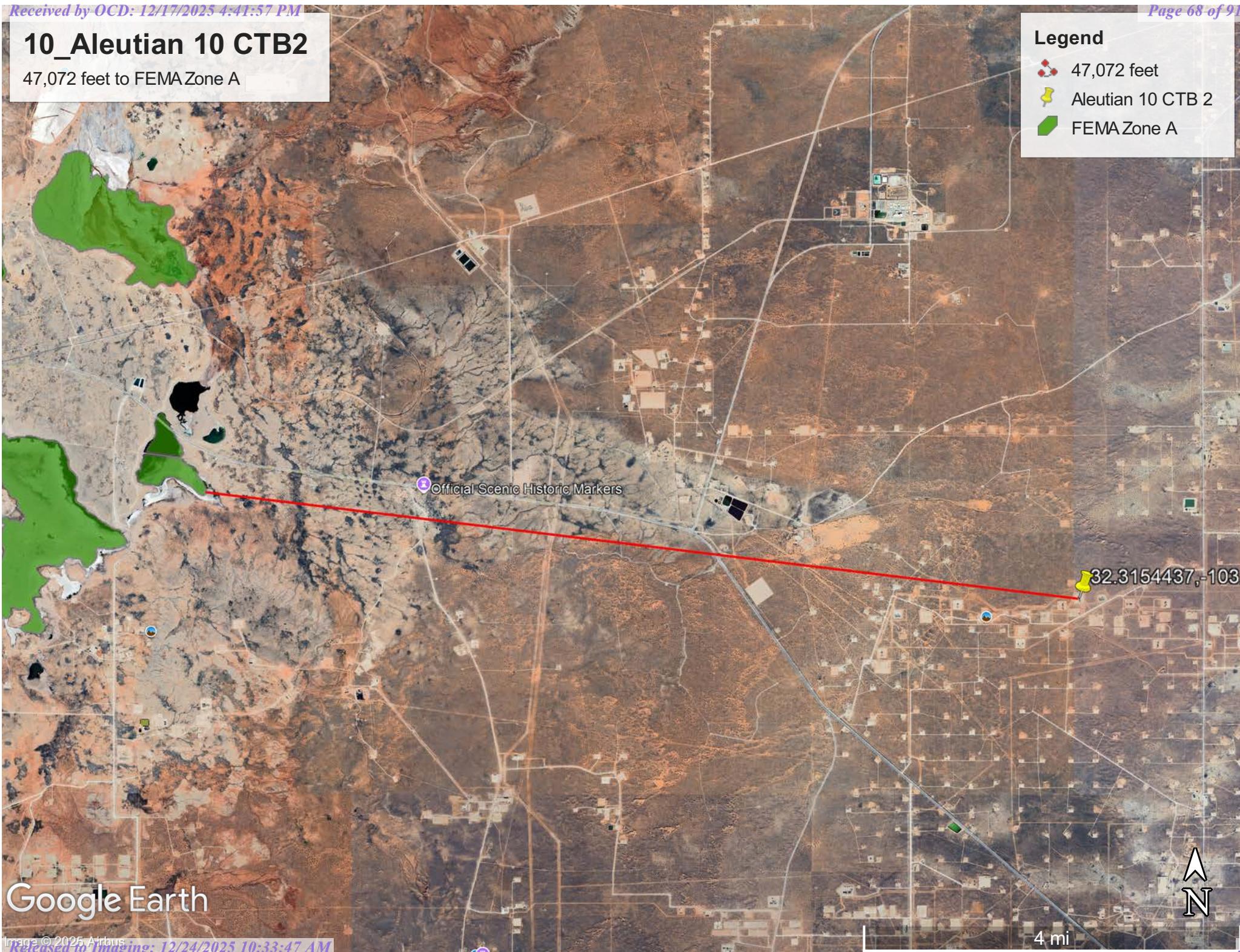
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

10_Aleutian 10 CTB2

47,072 feet to FEMA Zone A

Legend

- 47,072 feet
- Aleutian 10 CTB 2
- FEMA Zone A





United States
Department of
Agriculture



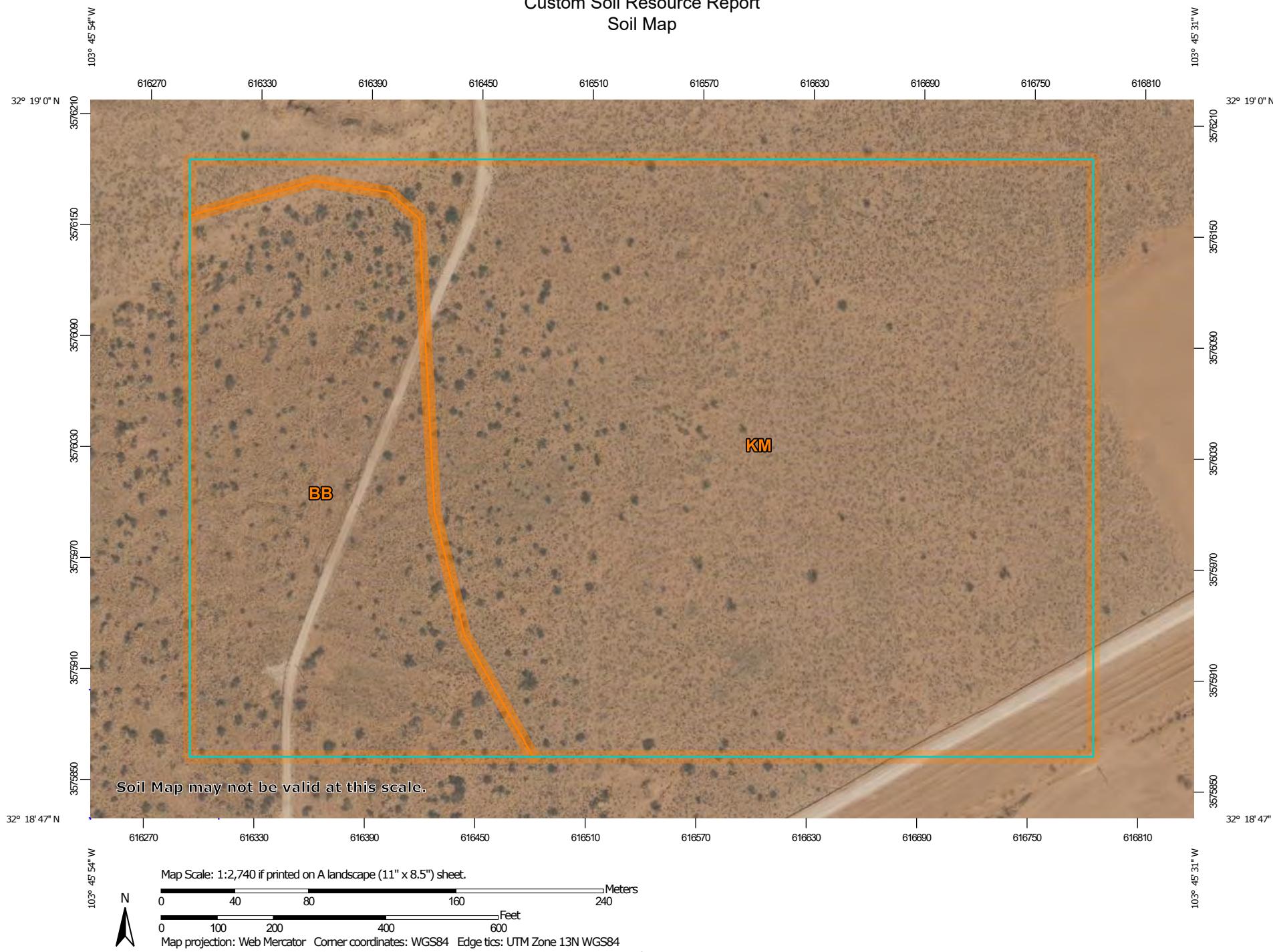
Natural
Resources
Conservation
Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



November 9, 2025

Custom Soil Resource Report
Soil Map

Custom Soil Resource Report

MAP LEGEND		MAP INFORMATION
Area of Interest (AOI)  Area of Interest (AOI)		The soil surveys that comprise your AOI were mapped at 1:20,000.
Soils  Soil Map Unit Polygons  Soil Map Unit Lines  Soil Map Unit Points		<div style="border: 1px solid black; padding: 5px;"><p>Warning: Soil Map may not be valid at this scale.</p><p>Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.</p></div>
Special Point Features  Blowout  Borrow Pit  Clay Spot  Closed Depression  Gravel Pit  Gravelly Spot  Landfill  Lava Flow  Marsh or swamp  Mine or Quarry  Miscellaneous Water  Perennial Water  Rock Outcrop  Saline Spot  Sandy Spot  Severely Eroded Spot  Sinkhole  Slide or Slip  Sodic Spot		<p>Special Line Features</p> <p>Spoil Area</p> <p>Stony Spot</p> <p>Very Stony Spot</p> <p>Wet Spot</p> <p>Other</p> <p>Streams and Canals</p> <p>Rails</p> <p>Interstate Highways</p> <p>US Routes</p> <p>Major Roads</p> <p>Local Roads</p> <p>Aerial Photography</p>

Custom Soil Resource Report

Eddy Area, New Mexico**BB—Berino complex, 0 to 3 percent slopes, eroded****Map Unit Setting**

National map unit symbol: 1w43
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent
Pajarito and similar soils: 25 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino**Setting**

Landform: Fan piedmonts, plains
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Pajarito**Setting**

Landform: Interdunes, plains, dunes
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components**Pajarito**

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 4 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Kermit

Percent of map unit: 3 percent
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Custom Soil Resource Report

KM—Kermit-Berino fine sands, 0 to 3 percent slopes**Map Unit Setting**

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

Landform: Alluvial fans, plains
Landform position (three-dimensional): Talf, rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Berino**Setting**

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: fine sandy loam

H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components**Active dune land**

Percent of map unit: 15 percent

Hydric soil rating: No

Ecological site R070BD005NM

Deep Sand

Accessed: 11/09/2025

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune (2) Parna dune (3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft

Slope	0–15%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsnnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand. Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam. Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony

Aguena

Kermit

Likes

Pintura

Bluepoint

Table 4. Representative soil features

Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained
Permeability class	Moderate to very rapid
Soil depth	60–72 in
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–5 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–7.8
Subsurface fragment volume <=3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

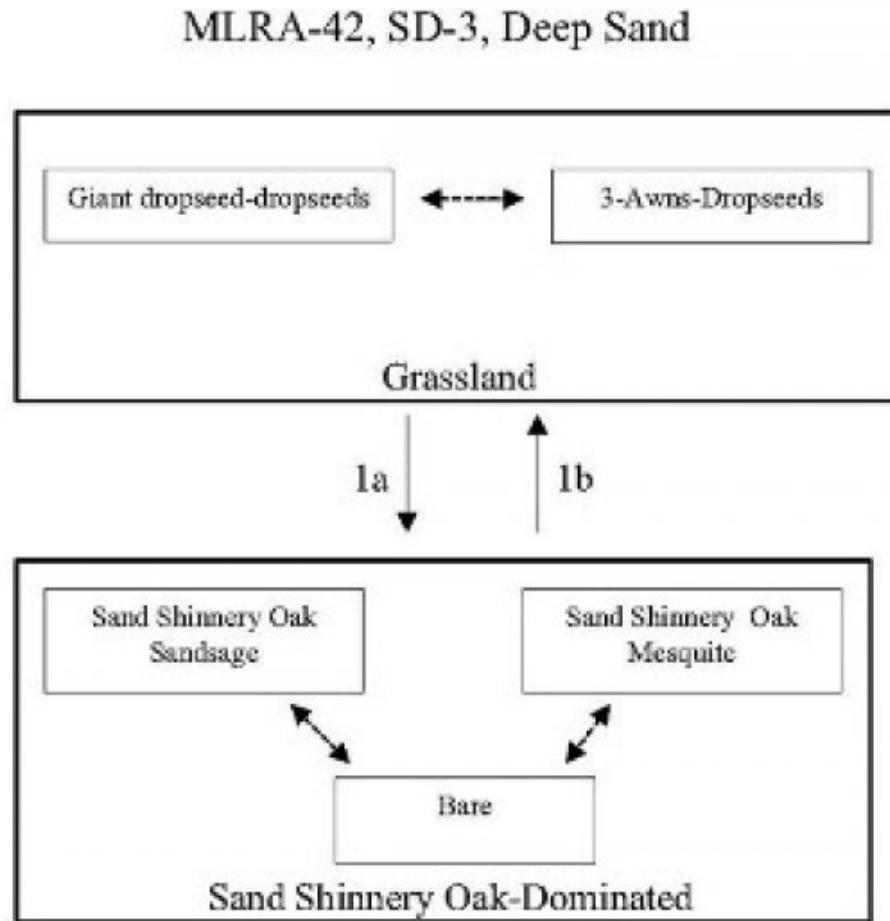
Overview

The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent

(approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (*Aristida* spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia filifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)



1.a Climate, fire suppression, competition, over grazing

1.b Brush control, Prescribed grazing

State 1

Historic Climax Plant Community

Community 1.1

Historic Climax Plant Community

State Containing Historic Plant Community Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948). Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland. Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass. Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed. Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%

Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 5. Plant community growth curve (percent production by month).
NM2805, HCPC. SD-3 Deep Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2

Shinnery Oak Dominated

Community 2.1

Shinnery Oak Dominated

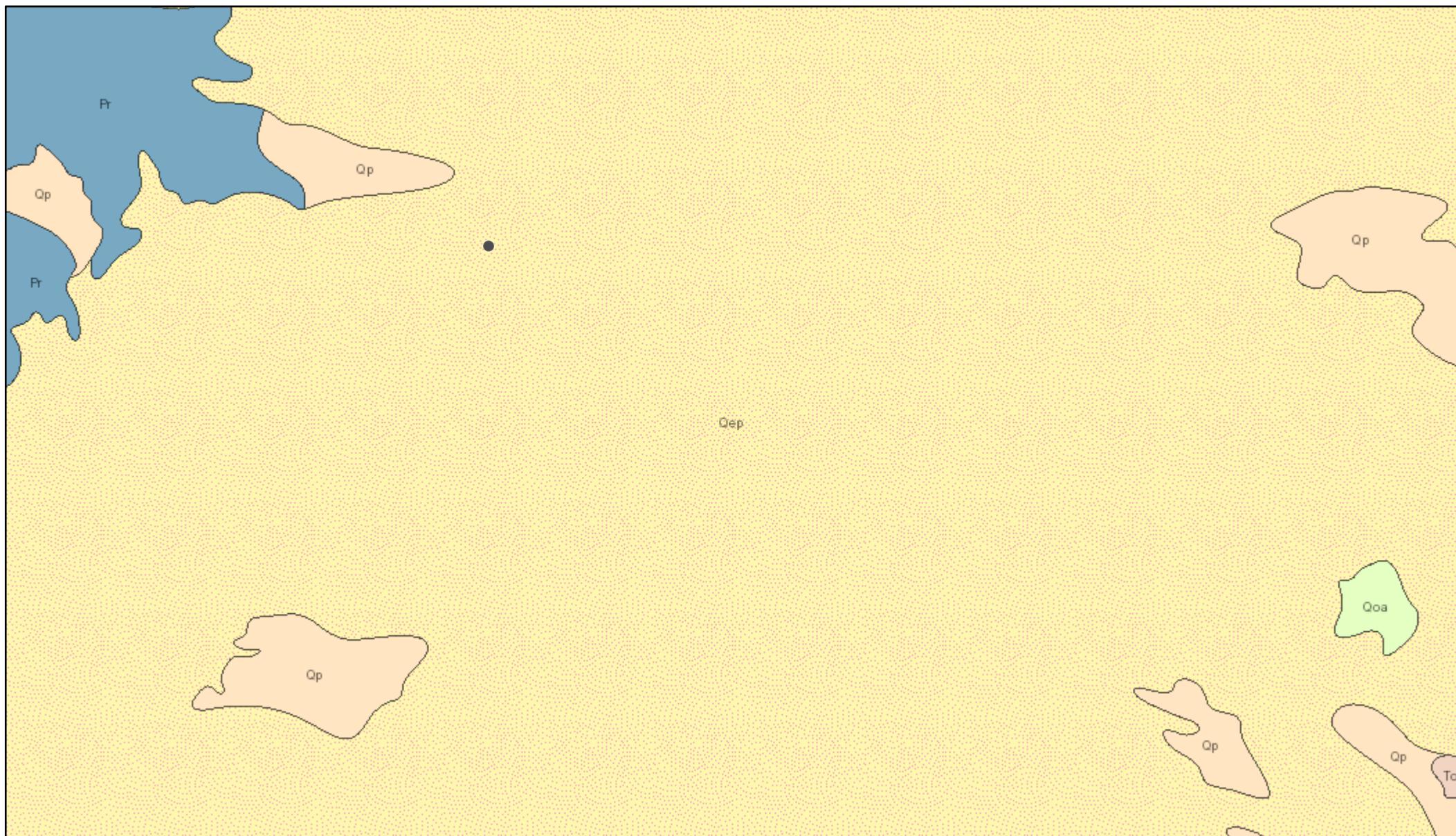


Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. Shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover. **Diagnosis:** Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches. **Transition to Shinnery oak dominated state (1a):** The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by an increase of shrub species abundance and bare patch expansion. **Key indicators of approach to transition:** • Loss of grass and forb cover • Surface soil erosion • Bare patch expansion • Increased shrub species abundance and composition **Transition to Historic Plant Community (1b):** The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			450–585	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	450–585	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	450–585	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	450–585	–



7/27/2021, 2:44:08 PM

Lithologic Contacts	Map Boundary	Fault, Concealed	Dike
— Contact, Exposed	— Faults	— Shere Zone	— Dike intruding fault
— Contact, Gradational	— Fault, Exposed	Dikes	* Volcanic Vents
— <all other values>			

1:144,448
 0 1 2 4 mi
 0 1.5 3 6 km

NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

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

QUESTIONS

Action 534929

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2530748842
Incident Name	NAPP2530748842 ALEUTIAN 10 CTB 2 @ FAPP2300331384
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2300331384] ALEUTIAN 10 CTB 2

Location of Release Source

Please answer all the questions in this group.

Site Name	ALEUTIAN 10 CTB 2
Date Release Discovered	11/01/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Corrosion Dump Line Produced Water Released: 7 BBL Recovered: 0 BBL Lost: 7 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Dumpline pinhole leak allowed fluids to be released to pad surface.</i>

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QUESTIONS, Page 2

Action 534929

QUESTIONS (continued)

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/17/2025
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Action 534929

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1/2 and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and 1/2 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	12000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/20/2025
On what date will (or did) the final sampling or liner inspection occur	12/31/2025
On what date will (or was) the remediation complete(d)	12/20/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	883
What is the estimated volume (in cubic yards) that will be remediated	12

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 534929

QUESTIONS (continued)

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	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	FEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/17/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 534929

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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Action 534929

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 534929

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	Action Number: 534929
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions: The minimum distance to a wetland is required to be updated during C-141 application resubmission. To the question, "What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A wetland," was answered, "Between 1 and 5 (mi.)." According to the National Wetlands Inventory Mapper, a wetland riverine is located 1/2-1 mile north of release. Submit report to the OCD by 3/24/26.	12/24/2025