



Ameredeve II, LLC

2901 Via Fortuna Suite 600 • Austin, Texas 78746 • Phone (737) 300-4700

November 29, 2023

New Mexico Environmental Department  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RE: Characterization and Remediation/Closure Plan  
Incident ID: nAPP2328943035  
Proj. ID #: 20231010-1015-water  
Location: Ike's Containment #1

NMOCD:

Ameredeve II, LLC submits this characterization and remediation/closure plan for the above referenced incident.

The release was discovered on October 10, 2023 during site evaluation for AST closure following deconstruction of the Ike's Containment #1 NW AST. The AST contained brackish water at the time of deconstruction. The calculated volume of released produced water is 17.2 bbls. The release occurred on an active production site. Surface is privately owned by Washington Crossing Field Services (Ameredeve). The release did not impact ground or surface water. Figures 1 and 2 show the area of the release in relation to the pad and production equipment.



Figure 1: View of release area facing northwest from the southeast extent.  
Date Taken: 2023-11-13 08:24:00. GPS: 32.0205500, -103.2603528

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Figure 2: View of the release area facing southwest from the northeastern extent.  
Date Taken: 2023-11-13 08:20:09. GPS: 32.0207722, -103.2603917

## 1 Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plates 2-9).

### 1.1. Site Map

The horizontal extent of the release was determined based on visual signs of possible impact and laboratory analytical soil samples to provide horizontal and vertical delineation. The discharge extent mapping utilized GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the southeast corner of the former NW AST footprint on the Ike's Containment #1 in-use pad. The coordinates of the release site are 32.0206453, -103.2605613 (Lat, Long; NAD83). The release extent covered an area of approximately 5,530 sq. ft.

### 1.2. Depth to Ground Water

The nearest depth-to-water measurement, dated 03/02/2023, relative to the release area, is mapped on Plate 2. This borehole has been plugged. The Office of the State Engineer well log is attached in Appendix B:

- MISC-425 (J-00062 POD 1) is located 925 feet (0.17 miles) south of the release. Depth to water is greater than 101 feet below ground surface.

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Released to Imaging: 3/13/2024 1:46:29 PM

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### 1.3. **Wellhead Protection Area**

Plate 3 shows that the release extent is:

- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Not within 1000 feet of any other freshwater well or spring.
- Is within ½-mile of a water well. MISC-438 (J-00025 POD2), located approximately 1,325 ft northwest of the release. Location was corrected from OSE data based on aerial photographs and visual confirmation.

### 1.4. **Distance to Nearest Significant Water Course**

Plate 4 shows that the release extent is:

- Not within ½ mile of any significant water course.
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse. The significant watercourse is mapped as intermittent and transects the southern release extent.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).
- The closest significant water course is a lake/pond located 1.09 miles east of the release.

### 1.5. **Soil/Waste Characteristics**

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and on an active production site used for oil and gas operations.

The USDA Natural Resources Conservation Service (NRCS) soil survey<sup>1</sup> describes the upper 5-feet of lithology as the Kermit-Wink complex with 0-3 percent slope:

#### Description of Kermit

- A - 0 to 8 inches: fine sand
- C - 8 to 60 inches: fine sand

#### Description of Wink

- A - 0 to 12 inches: fine sand
- Bk - 12 to 23 inches: sandy loam
- BCK - 23 to 60 inches: sandy loam

The lithology as described by the NRCS is consistent with observed lithology during borehole activities within the upper 5-feet. Borehole logs for the two deepest boreholes (GS-09 & GS-10) are located in Appendix B. At GS-10, a clay layer was observed from 13.25 to 14 feet. Total depth was 17 ft below ground surface.

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<sup>1</sup> <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

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## 2 Soil Sample Results

Characterization/delineation sampling commenced on November 8, 2023 and continued through November 15, 2023. Sample CS-03 was obtained on 10/17/2023 during horizontal delineation sampling for adjacent release, Incident # NCS2003549670. Sampling notification is included in Appendix A.

Horizontal delineation samples were obtained utilizing a hand auger. Hand auger refusal was encountered at 1 to 1.5 feet below caliche pad surface. Excavated caliche was used to backfill the hand auger borehole. Vertical delineation samples within the release extent utilized direct push technology using a Geoprobe 6620DT (Figure 3). Vertical delineation samples were plugged and backfilled with 3/8" bentonite pellets (hole plug).



*Figure 3: Sampling of GS-07 with a Geoprobe 6620DT, facing southwest.*

*Date Taken: 2023-11-15 11:48:53.*

*GPS: 32.0208139, -103.2607028*

Plate 10 shows the locations of the characterization/delineation sample points.

Table A shows sample point coordinates.

Table B summarizes summary of analytical results.

Laboratory Certificates of Analysis are located in Appendix C.

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- Characterization/delineation sample CS-04 exceeded criteria for horizontal delineation for TPH at 0 – 1 ft. GRO/DRO exhibited <151 mg/kg. TPH Extended exhibited <161 mg/kg. An additional delineation sample, CS-04.1, was obtained approximately 30 ft to the southeast. CS-04.1 and all other horizontal characterization/delineation samples met the most stringent Closure Criteria per Table 1 of 19.15.29 NMAC for all constituents of concern:
  - Chloride < 600 mg/kg
  - TPH (GRO + DRO) < 100 mg/kg
  - BTEX < 50 mg/kg
  - Benzene < 10 mg/kg
- Vertical characterization/delineation samples were obtained using direct push technology. All samples exhibited constituents of concern below the Closure Criteria per Table 1 of 19.15.29 NMAC for areas in-use on an active production site for oil and gas operations; where depth to water is >100 ft bgs, as well as decreasing constituent concentrations at depth:
  - Chloride < 20,000 mg/kg
  - TPH (GRO + DRO + MRO) < 2,500 mg/kg
  - TPH (GRO + DRO) < 1,000 mg/kg
  - BTEX < 50 mg/kg
  - Benzene < 10 mg/kg

Based on results of site characterization and laboratory analytical data, no remediation was undertaken. The active production site was restored per 19.15.29.13.A-C. When the production site is no longer in use for oil and gas operations, the surface shall be remediated, restored, and reclaimed per 19.15.29.13.D.

Ameredev respectfully submits this report for closure of the regulatory file for this incident.

Sincerely,



Andrew Parker  
Environmental Scientist

11/29/2023



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District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? <b><u>Plate 2</u></b>	<u>&gt;101</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? <b><u>Plate 4</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? <b><u>Plate 4</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? <b><u>Plate 5</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? <b><u>Plate 3</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? <b><u>Plate 3</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? <b><u>Plate 3</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <b><u>Plate 6</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <b><u>Plate 7</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <b><u>Plate 8</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <b><u>Plate 9</u></b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

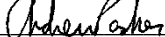
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: November 29, 2023email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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## Remediation Plan

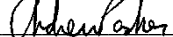
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: November 29, 2023email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



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## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

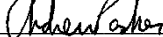
**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: November 29, 2023

email: aparker@ameredev.com

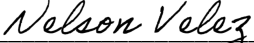
Telephone: 970-570-9535

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 03/13/2024

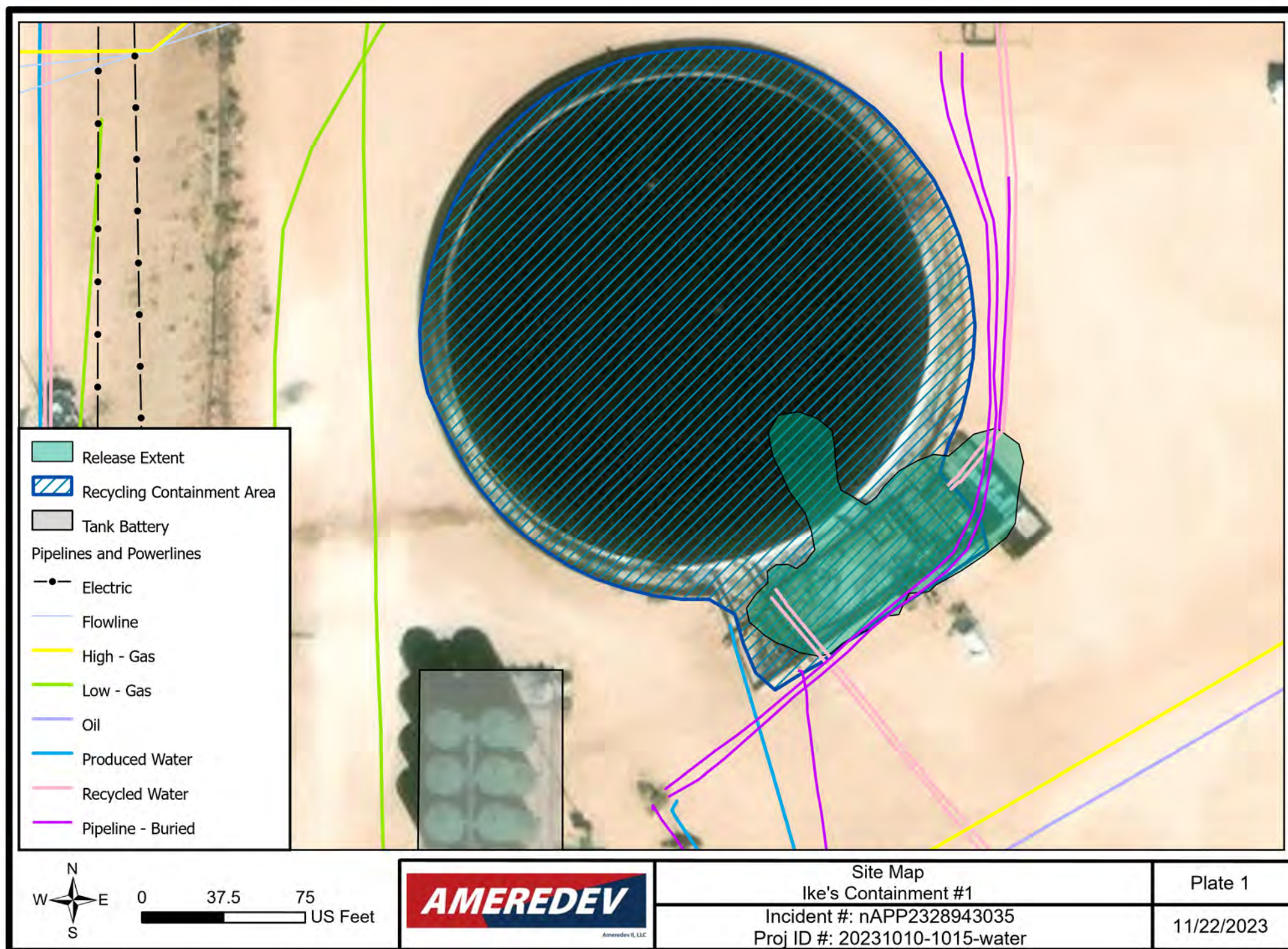
Printed Name: Nelson Velez

Title: Environmental Specialist – Adv

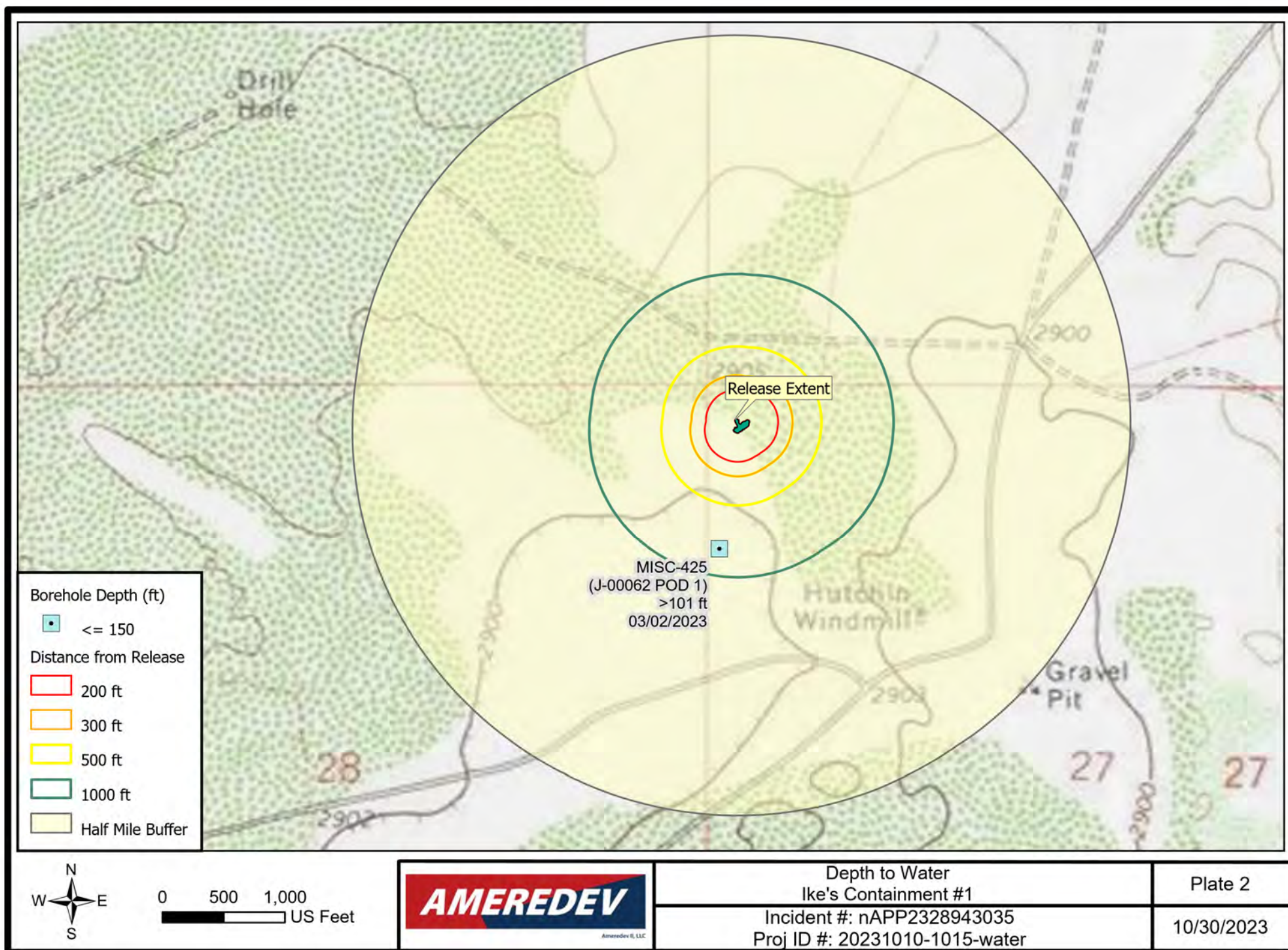
# Plates



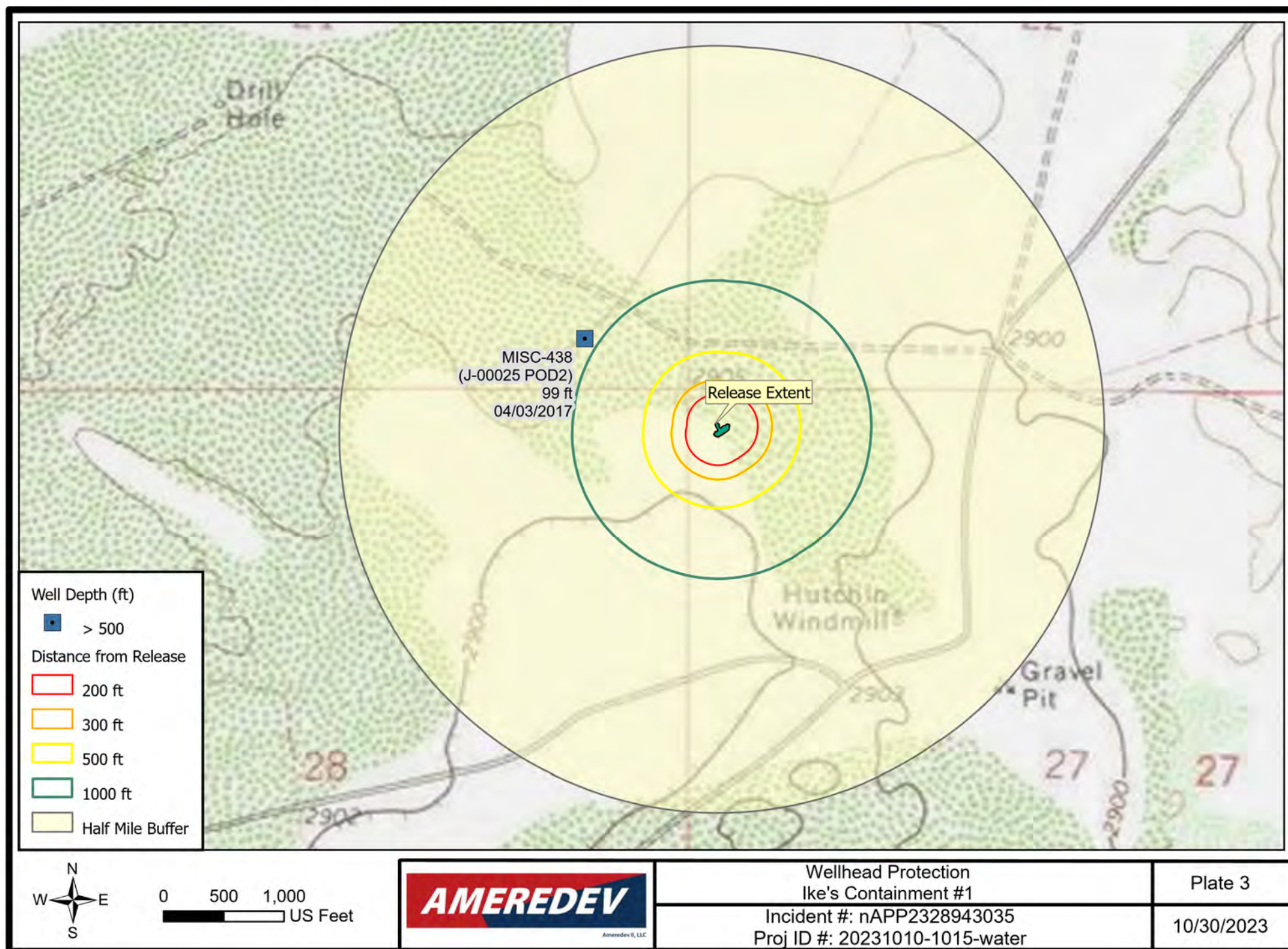
Ameredev II, LLC



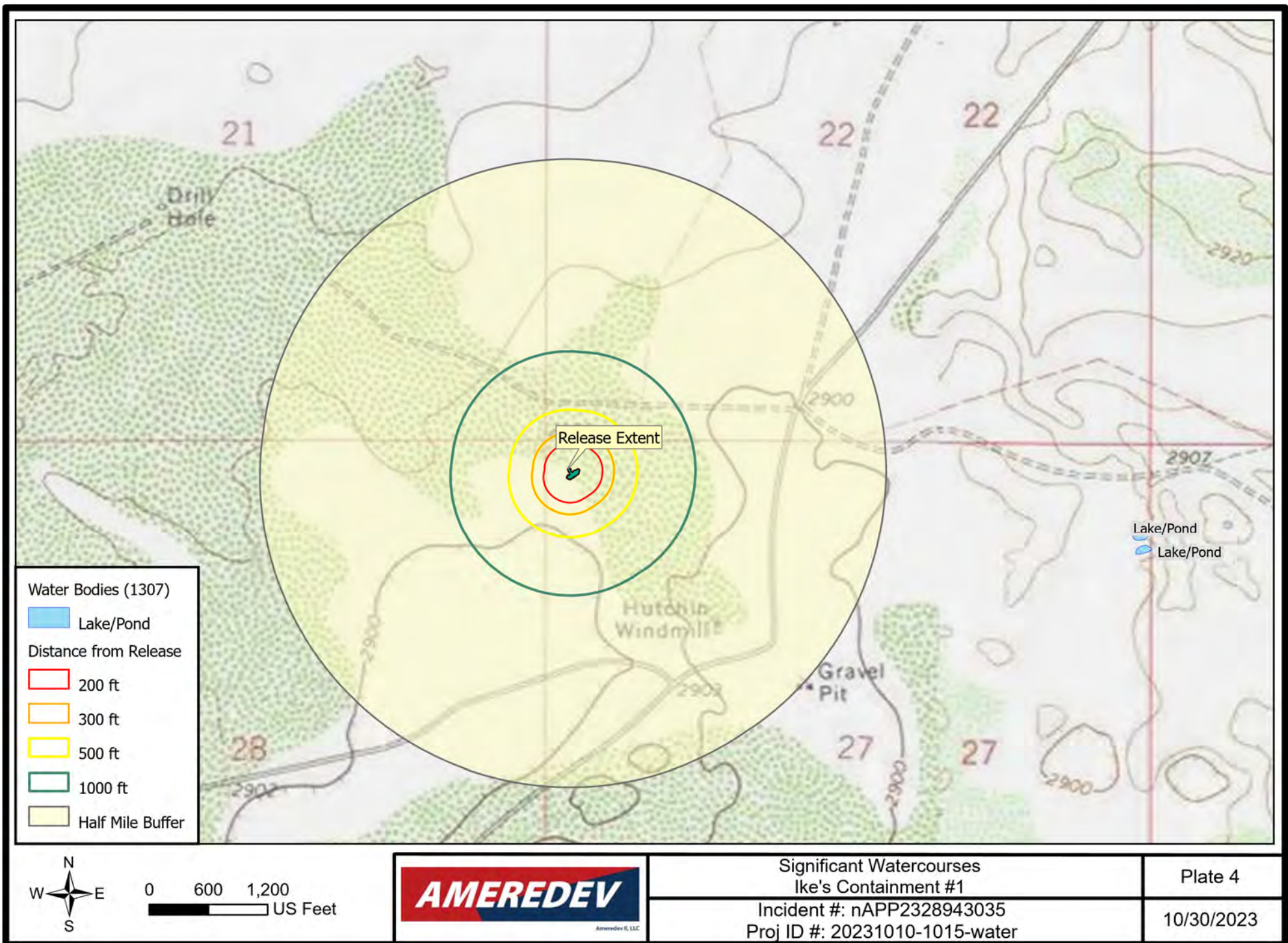




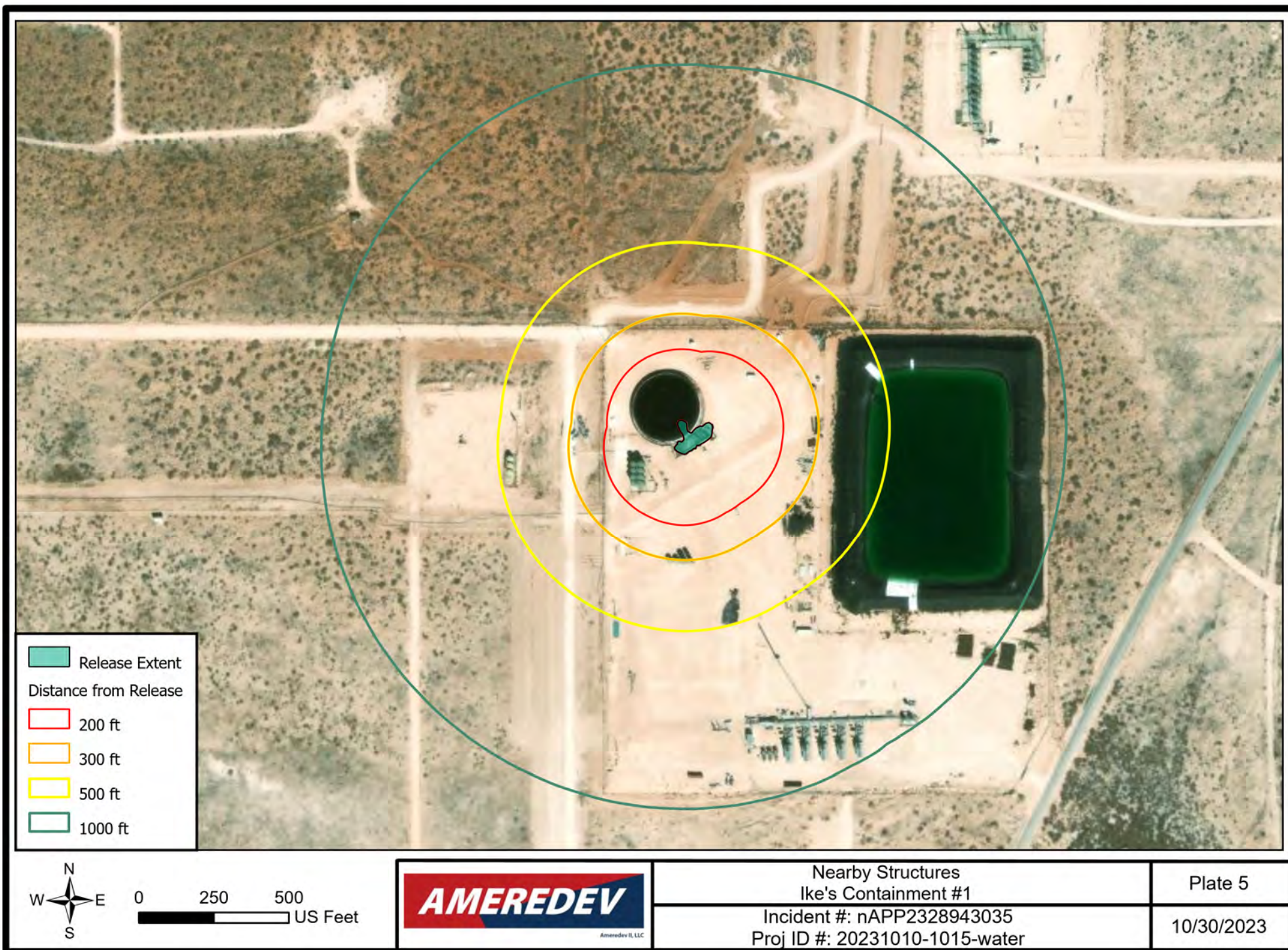




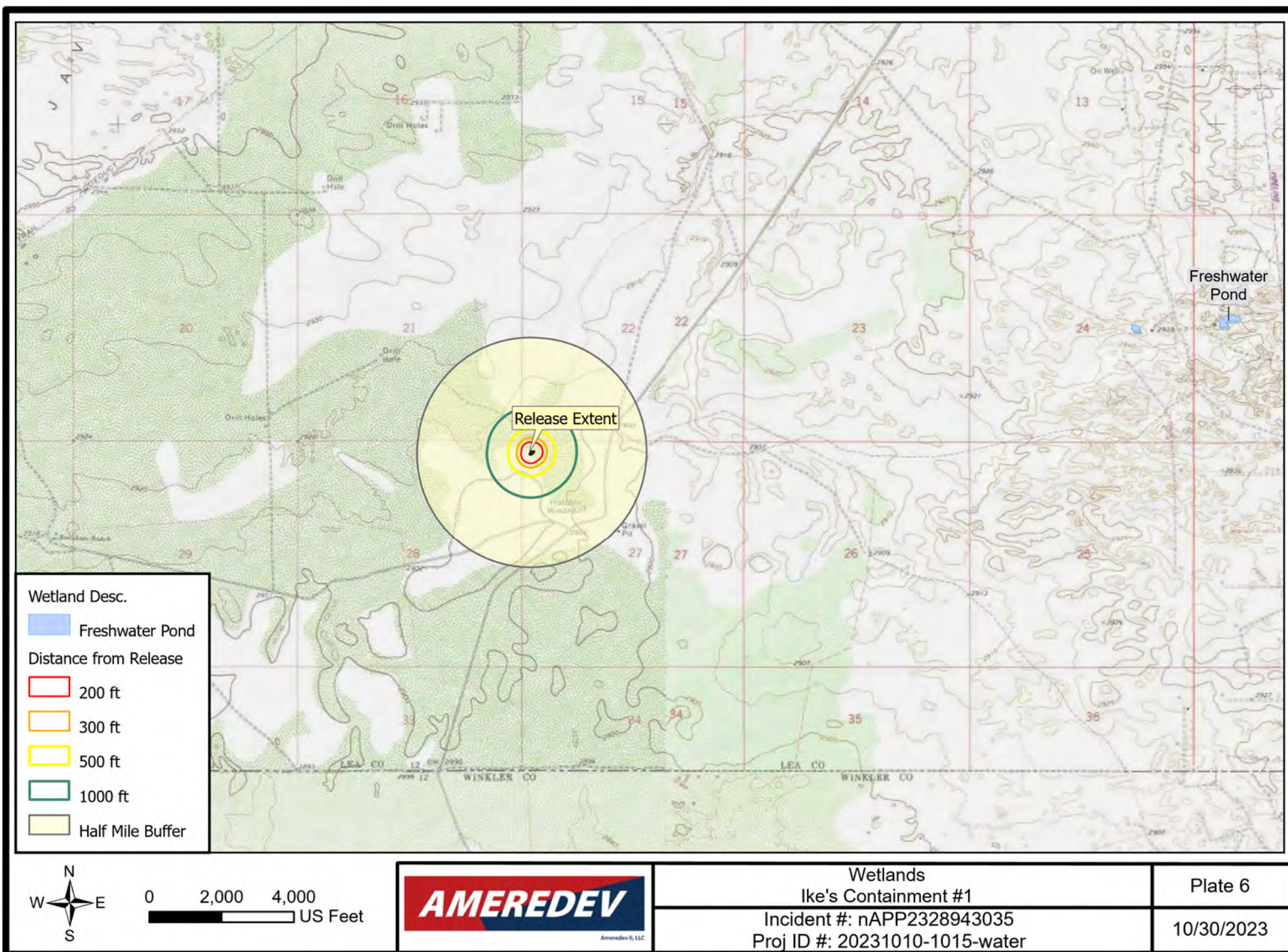




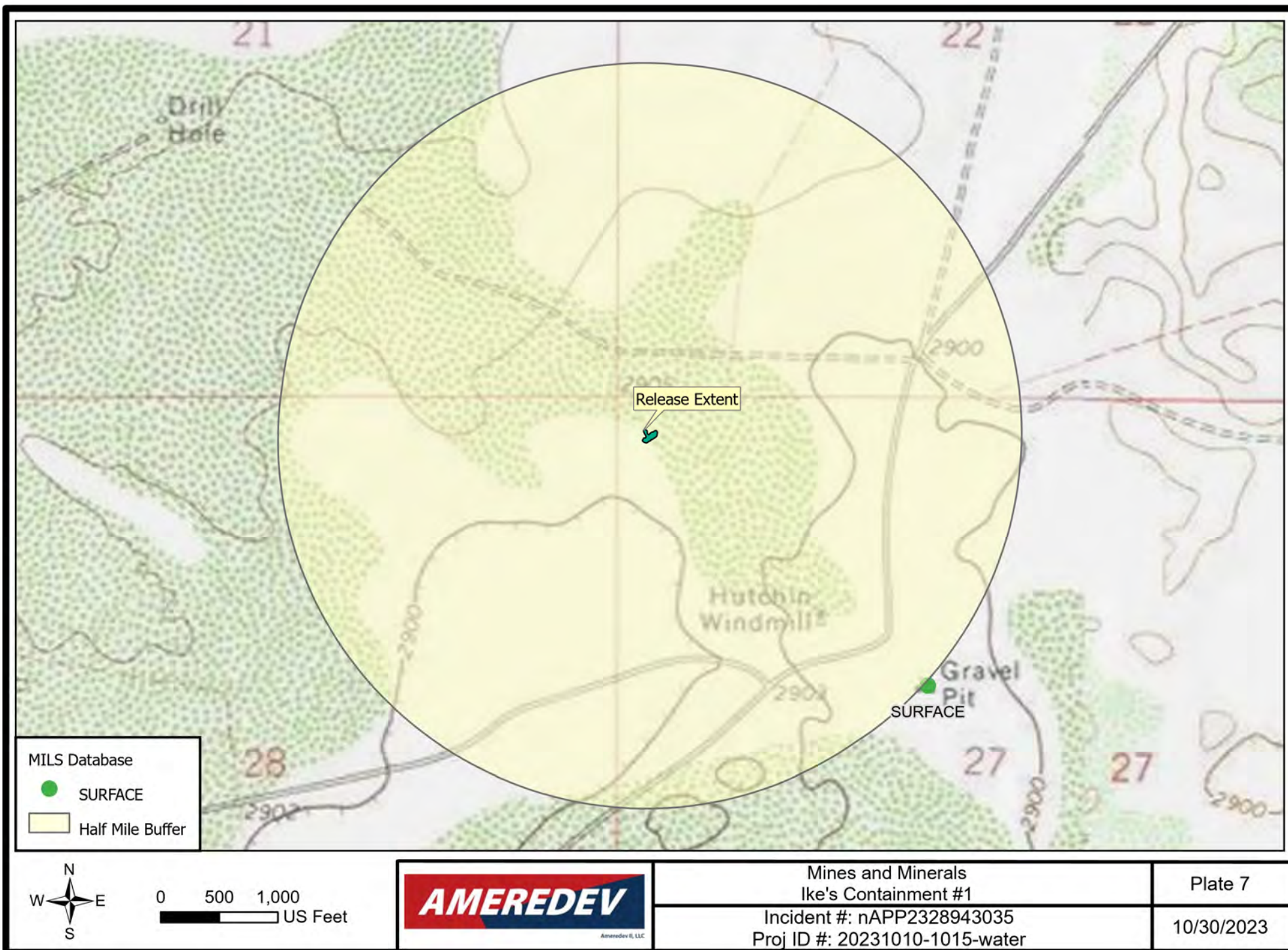




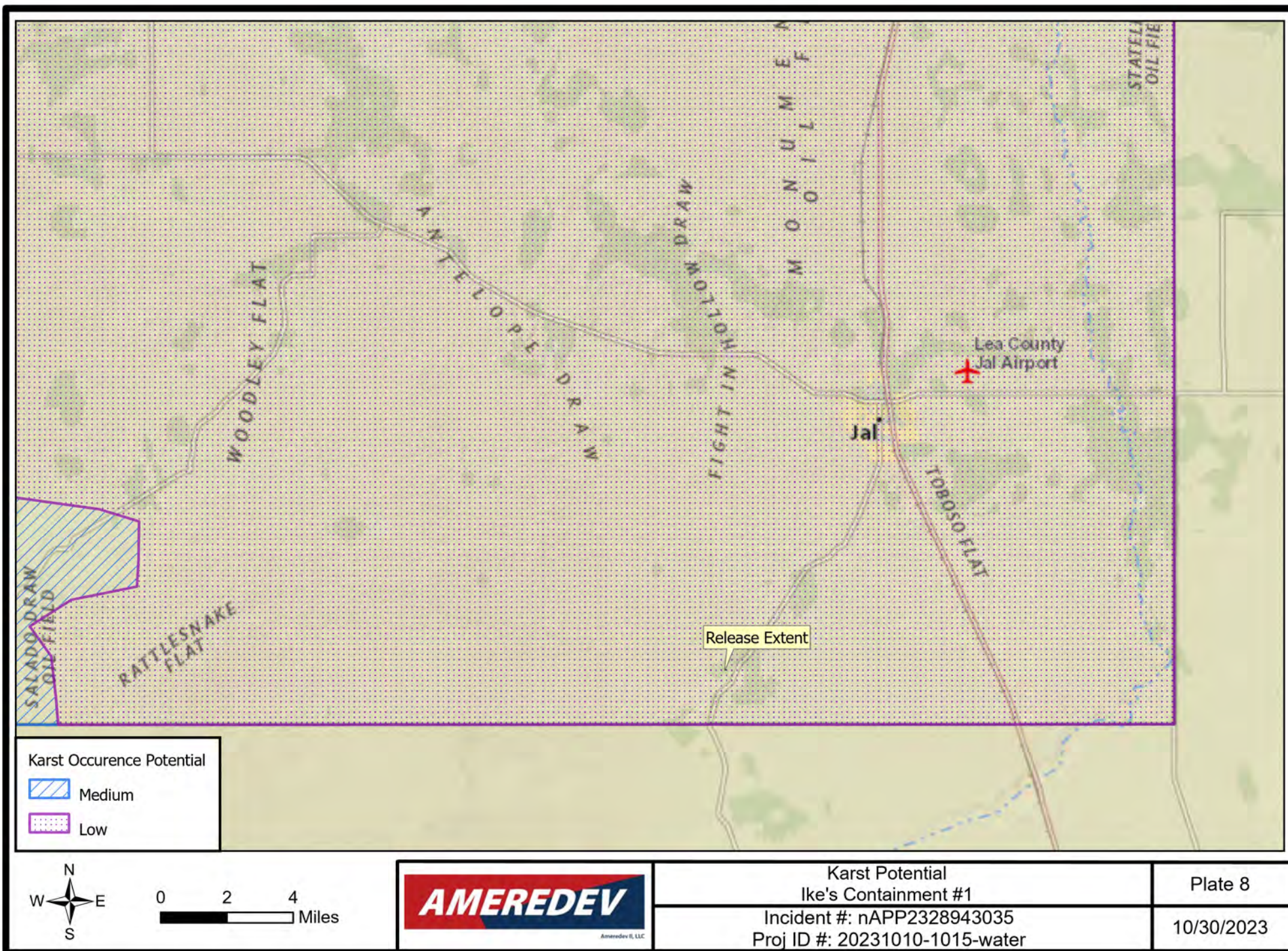




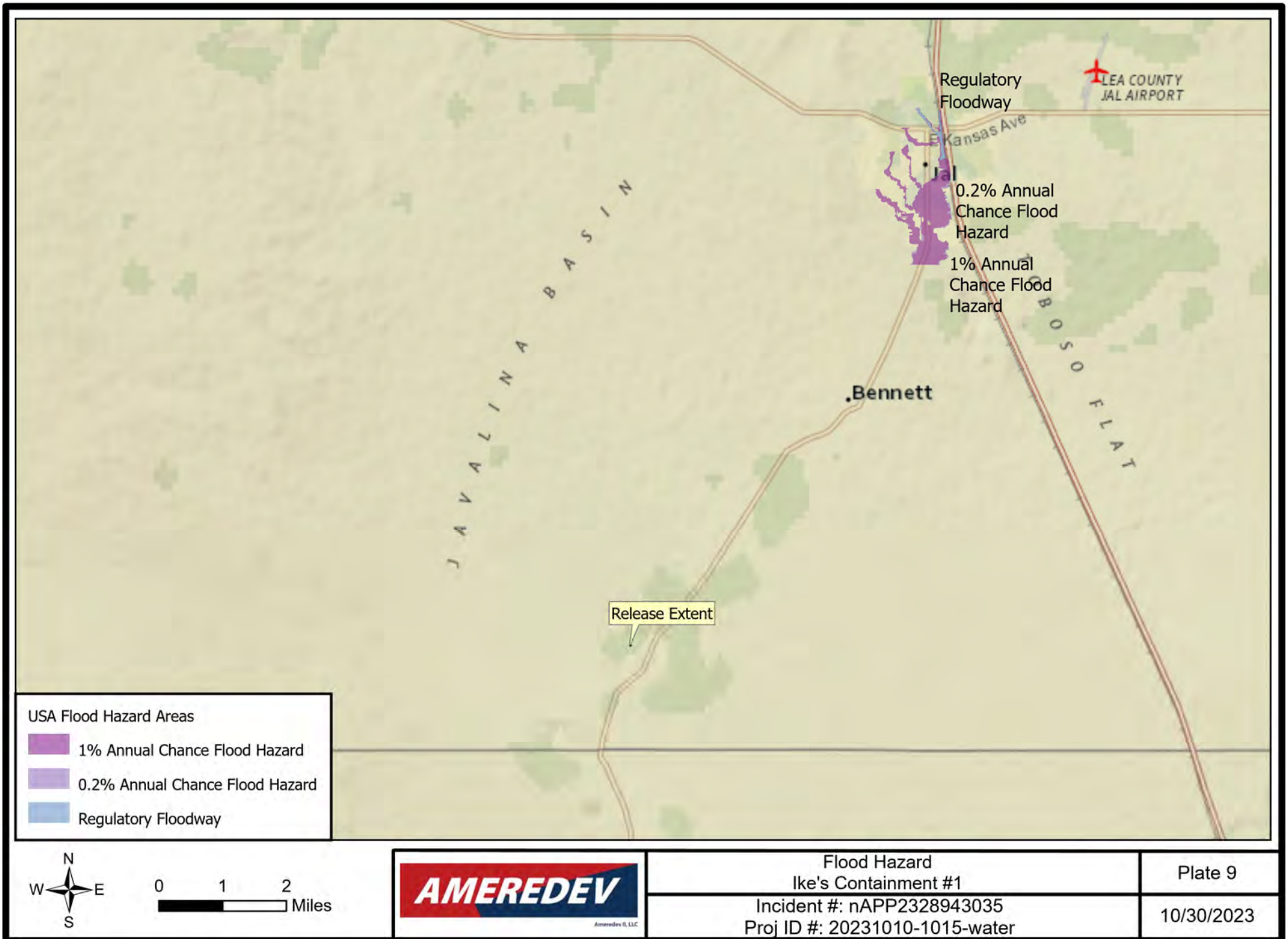


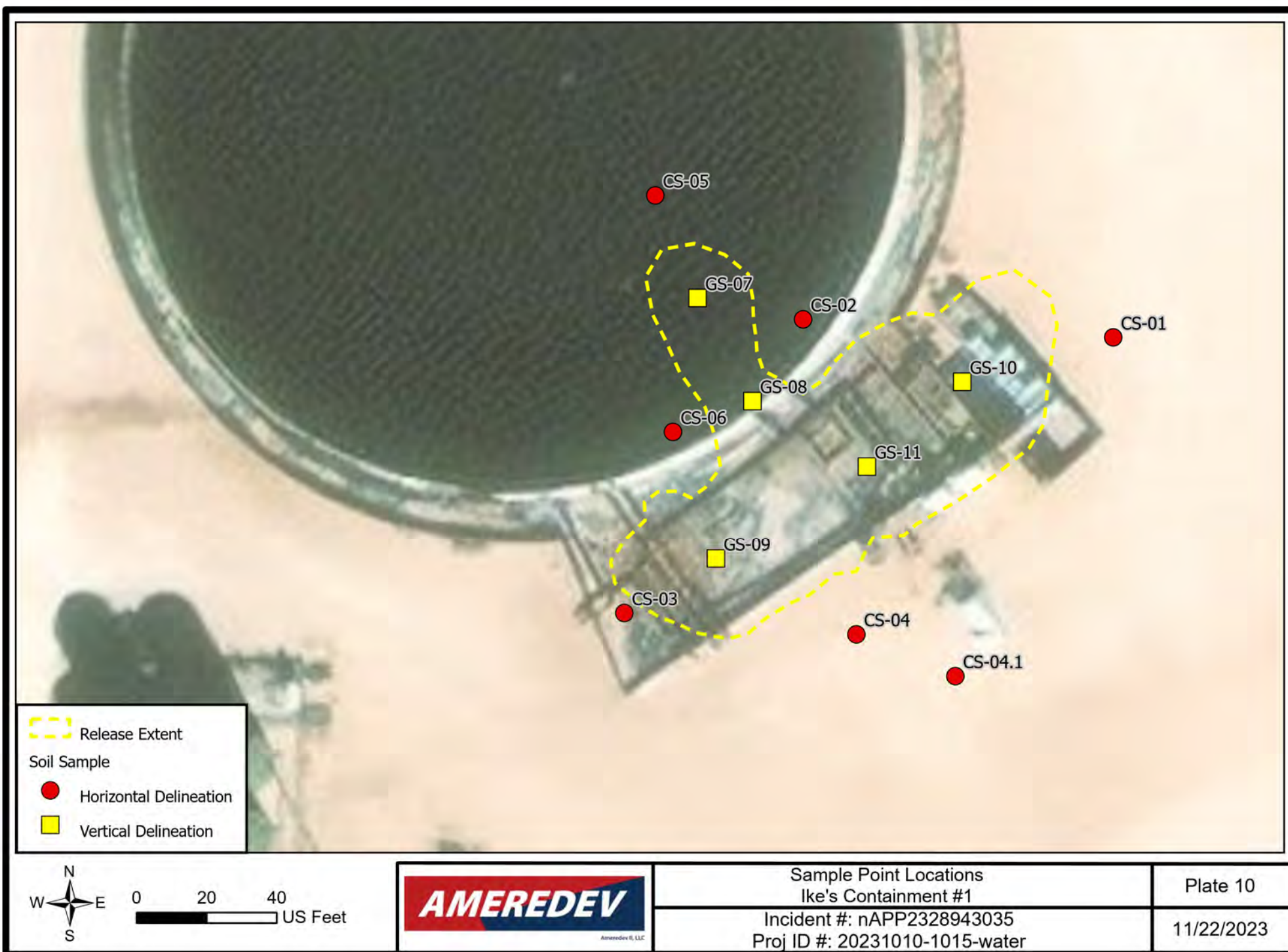














# Tables



Ameredev II, LLC

November 21, 2023

Table A  
Sample Point CoordinatesIncident ID: nAPP2328943035  
Proj. ID #: 20231010-1015-water  
Location: Ike's Containment #1

Sample Point	Latitude	Longitude
CS-01	32.0207533	-103.2603469
CS-02	32.0207666	-103.2605885
CS-03	32.0205710	-103.2607270
CS-04	32.0205572	-103.2605487
CS-04.1	32.0205292	-103.2604704
CS-05	32.0208473	-103.2607053
CS-06	32.0206921	-103.2606902
GS-07	32.0207804	-103.2606716
GS-08	32.0207120	-103.2606282
GS-09	32.0206078	-103.2606571
GS-10	32.0207242	-103.2604662
GS-11	32.0206691	-103.2605409

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Table B  
Summary of AnalyticalIncident ID: nAPP2328943035  
Proj. ID #: 20231010-1015-water  
Location: Ike's Containment #1

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
CS-01	11/3/2023		0	1	on-site	272	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-01	11/3/2023	1.5			on-site	32	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-02	11/3/2023		0	1	on-site	320	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-02	11/3/2023	1.5			on-site	48	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-03	10/17/2023		0	1	on-site	304	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H235672
CS-04	11/3/2023		0	1	on-site	320	<151	<161	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-04	11/3/2023	1.5			on-site	32	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-04.1	11/9/2023		0	1	on-site	320	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236159
CS-04.1	11/9/2023	1.25			on-site	368	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236159
CS-05	11/3/2023		0	1	on-site	208	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-05	11/3/2023	1.5			on-site	64	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-06	11/3/2023		0	1	on-site	176	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
CS-06	11/3/2023	1.5			on-site	32	<20	<30	<0.05	<0.3	Horizontal Delineation	Cardinal	H236054
GS-07	11/15/2023		0	2	on-site	5040	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-07	11/15/2023		2	4	on-site	704	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-07	11/15/2023		4.1	5	on-site	64	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-08	11/15/2023		0	2	on-site	608	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-08	11/15/2023		2	4	on-site	64	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-08	11/15/2023		4.1	5	on-site	32	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-09	11/15/2023		0	2	on-site	992	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-09	11/15/2023		2	4	on-site	1020	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-09	11/15/2023		4.1	5	on-site	2120	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-09	11/15/2023		5	6	on-site	1460	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-09	11/15/2023		6	7	on-site	864	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-09	11/15/2023		7	8	on-site	320	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		0	2	on-site	624	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		2	4	on-site	1310	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		4.1	5	on-site	1200	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		5	6	on-site	1960	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		6	7	on-site	2720	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		7	8	on-site	3480	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		8	9	on-site	5120	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		9	10	on-site	2240	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		10	11	on-site	1840	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-10	11/15/2023		14	15	on-site	1880	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236285
GS-11	11/15/2023		0	2	on-site	1800	<912	<922	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-11	11/15/2023		2	4	on-site	2080	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286
GS-11	11/15/2023		4.1	5	on-site	112	<20	<30	<0.05	<0.3	Vertical Delineation	Cardinal	H236286

# Appendix A

## Communications



Ameredev II, LLC

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2328943035
District RP	
Facility ID	
Application ID	

# Release Notification

## Responsible Party

Responsible Party: Ameredev Operating, LLC	OGRID: 372224
Contact Name: Shane McNeely	Contact Telephone: (737) 300-4700
Contact email: smcneely@ameredev.com	Incident # <i>(assigned by OCD)</i>
Contact mailing address: 2901 Via Fortuna, Suite 600 Austin, Texas 78746	

## Location of Release Source

Latitude: 32.0206453 Longitude: -103.2605613  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ike's Containment #1 20231010-1015-water	Site Type: Recycling Containment Pad
Date Release Discovered October 10, 2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	27	26S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Washington Crossing Field Services)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 17.2	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

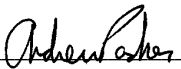
Cause of Release: Release identified during site evaluation for AST closure. AST contained brackish water at time of closure.

Incident ID	nAPP2328943035
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?          
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?          	

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Andrew Parker</u>	Title: <u>Env. Scientist</u>
Signature: <u></u>	Date: <u>10/16/2023</u>
email: <u>aparker@ameredev.com</u>	Telephone: <u>970-570-9535</u>
<b><u>OCD Only</u></b>	
Received by: <u>Shelly Wells</u>	Date: <u>10/16/2023</u>



Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	2765.00
Input	Porosity: typically is .35 to .40 for most soils	[ - ]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[ - ]	0.10
Output	volume of fluid	[feet^3]	96.8
		[gal]	723.9
		Barrels	17.2

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 275981

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275981
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/16/2023

## Laura Parker

---

**From:** Andrew Parker  
**Sent:** Monday, October 16, 2023 12:58 PM  
**To:** Laura Parker  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 275967

See below.

Andrew Parker  
Environmental Scientist  
970-570-9535



---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Monday, October 16, 2023 11:57 AM  
**To:** Andrew Parker <aparker@amereDEV.com>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 275967

To whom it may concern (c/o Andrew Parker for AMEREDEV OPERATING, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2328943035, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2328943035, on all subsequent C-141 submissions and communications regarding the remediation of this release.

**NOTE:** As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

[ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**Laura Parker**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Monday, October 30, 2023 5:47 PM  
**To:** Laura Parker  
**Cc:** Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD  
**Subject:** RE: [EXTERNAL] Incident # nAPP2328943035 Sampling notice

**Follow Up Flag:** Flag for follow up  
**Flag Status:** Flagged

Hi Laura,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Laura Parker <lparker@ameredev.com>  
**Sent:** Monday, October 30, 2023 2:31 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Incident # nAPP2328943035 Sampling notice

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

NMOCD,

Please accept this email as the 2-day sampling notice for Incident # nAPP2328943035 at the Ike's Recycling Containment. Sampling will commence on Thursday November 2, 2023. Sampling will continue over the course of several weeks.

Soil samples collected for the delineation of the above incident may be used for confirmation closure samples. Please contact me with any questions.

Laura Parker  
Environmental Specialist  
505-270-8647

# Appendix B

## Well Logs



Ameredeve II, LLC



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
[www.atkinseng.com](http://www.atkinseng.com)

March 9, 2023

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record J-00062 POD-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, J-0062 POD-1

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

2023 1/4 10:02 AM





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). J-00062			
	WELL OWNER NAME(S) Ameredev Operating, LLC				PHONE (OPTIONAL) 737-300-4700			
	WELL OWNER MAILING ADDRESS 2901 Via Fortuna Suite 600				CITY Austin	STATE TX	ZIP 78746	
	WELL LOCATION (FROM GPS)	DEGREES 32 LATITUDE	MINUTES 1	SECONDS 5.98 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	15	39.71 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW NW NW Sec.27 T26S R36E NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 2/21/23	DRILLING ENDED 2/21/23	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 3/2/2023		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger				CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>			
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		6.25"	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	24	24	Sand, very fine-grained, poorly graded, unconsolidated, Brown /Tan	Y    ✓ N	
	24	45	21	Sand, very fine-grained, poorly graded, slight consolidated, Tan	Y    ✓ N	
	45	101	56	Sand, fine-grained, poorly graded, unconsolidated, Tan	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Removed temporary well material from soil boring, backfilled with drill cutting from total depth to 10 feet below ground surface, then placed hydrated bentonite from 10 feet to ground surface. See attached plugging record. DTW-17					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  <div style="display: flex; justify-content: space-between;"> <div>               SIGNATURE OF DRILLER / PRINT SIGNEE NAME           </div> <div>             Jackie D. Atkins              DATE           </div> </div>					

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: J-00062 POD-1  
 Well owner: Ameredev Operating, LLC Phone No.: 737-300-4700  
 Mailing address: 2901 Via Fortuna Suite 600  
 City: Austin State: Texas Zip code: 78746

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Cameron Pruitt
- 4) Date well plugging began: 3/2/2023 Date well plugging concluded: 3/2/2023
- 5) GPS Well Location: Latitude: 32 deg, 1 min, 5.98 sec  
 Longitude: 103 deg, 15 min, 39.71 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),  
 by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 1/26/23
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

**III. SIGNATURE:**

Jack Atkins

3/9/23

Date \_\_\_\_\_






# 17-Well Record and Log-packet-forsign

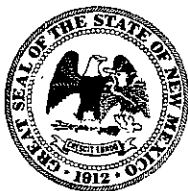
Final Audit Report

2023-03-09

Created:	2023-03-09
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAzXuzWP53KQ1xK_g3D901wUVwqrF0rJrW

## "17-Well Record and Log-packet-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2023-03-09 - 5:46:44 PM GMT- IP address: 64.17.82.146
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2023-03-09 - 5:49:37 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2023-03-09 - 7:24:12 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2023-03-09 - 7:24:27 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2023-03-09 - 7:24:27 PM GMT



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER

702 APR -7 PM 12:57

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) J-25 Pod # 2				OSE FILE NUMBER(S) J-25			
	WELL OWNER NAME(S) Brad Beckham				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS po box 1203				CITY Jal		STATE NM	
					ZIP 88252			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 01	18	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	15	49	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE sw/4se/4se/4 sec 21 T26s 36e 1/4 mile south of existing oil well								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-331		NAME OF LICENSED DRILLER Joel Stewart			NAME OF WELL DRILLING COMPANY Stewart Brothers Drilling Co		
	DRILLING STARTED 3-16-17		DRILLING ENDED 4-3-17		DEPTH OF COMPLETED WELL (FT) 800		BORE HOLE DEPTH (FT) 810	
					DEPTH WATER FIRST ENCOUNTERED (FT) unk			
	COMPLETED WELL IS:		<input checked="" type="checkbox"/> ARTESIAN		<input type="checkbox"/> DRY HOLE		<input type="checkbox"/> SHALLOW (UNCONFINED)	
	DRILLING FLUID:		<input type="checkbox"/> AIR		<input checked="" type="checkbox"/> MUD		ADDITIVES - SPECIFY:	
	DRILLING METHOD:		<input checked="" type="checkbox"/> ROTARY		<input type="checkbox"/> HAMMER		<input type="checkbox"/> CABLE TOOL	
							OTHER - SPECIFY:	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	
	FROM	TO					CASING INSIDE DIAM. (inches)	
	0	20	26		steel		n/a	
0	287	17 1/2		steel		welded		
287	800	17 1/2		steel slotted screen		welded		
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	
	FROM	TO					METHOD OF PLACEMENT	
	810	260	17 1/2		8-16 silica sand		540	
	260	250	17 1/2		bentonite pellets		8	
	250	0	17 1/2		neat cement		250	

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 10/29/15)

FILE NUMBER	J-25	POD NUMBER	2	TRN NUMBER	55820
LOCATION	Com	26S.36E.21.43			PAGE 1 OF 2






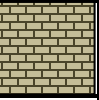
STATE OF NEW YORK  
COUNTY OF NEW YORK

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)	
	FROM	TO					
<b>4. HYDROGEOLOGIC LOG OF WELL</b>	0	105	105	red brown silt and sand	Y    ✓ N		
	105	120	15	tan siltstone	Y    ✓ N		
	120	490	370	red brown silt and fine sand	Y    ✓ N		
	490	600	110	brown sand and clay	Y    ✓ N		
	600	760	160	tan sand and gravel	Y    N		
	760	800	40	gray clay	Y    N		
	800	810	10	red brown clay	Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	<b>5. TEST; RIG SUPERVISION</b>	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION:							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: W L Brunson							
<b>6. SIGNATURE</b>	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:						
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			


FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/2015)	
FILE NUMBER	J-25	POD NUMBER	2
LOCATION	Com	TRN NUMBER	515820
265.36E.21.443		PAGE 2 OF 2	

<b>Logger:</b>	Andrew Parker	<b>Client:</b>	Ameredev Operatating			<b>Borehole ID:</b>	GS-09
<b>Driller:</b>	Earth Workx	<b>Project Name:</b>	Ike's Containment 20231010-1015-water				
<b>Drilling Method:</b>	Geoprobe 6620DT	<b>Location:</b>	32.0206078, -103.2606571				
<b>Start Date:</b>	11/15/2023						
<b>End Date:</b>	11/15/2023						









  

Depth (feet)	Description	Lithology	Comments	CI (field)	EC	CI (lab)	Borehole Completion	Depth (feet)
				(ppm)	mS/cm	mg/kg		
0.0	0 - 1 ft							0.0
1.0	Caliche Pad							1.0
2.0								2.0
3.0	1 - 5 ft Silt, sand; brown, red; moist		0 to 2 ft		0.66	992		3.0
4.0			2 to 4 ft		0.74	1020		4.0
5.0			4.1 to 5 ft		1.48	2120		5.0
6.0	5 - 9 ft Caliche, med. dense; light tan; dry		5 to 6 ft		1.16	1460		6.0
7.0			6 to 7 ft		0.47	864		7.0
8.0			7 to 8 ft		0.26	320		8.0
9.0			TD 9 ft.				9.0	
10.0							10.0	
11.0							11.0	
12.0							12.0	
13.0							13.0	
14.0							14.0	
15.0							15.0	
16.0							16.0	
17.0							17.0	
18.0							18.0	
19.0							19.0	
20.0							20.0	
21.0							21.0	
22.0							22.0	
23.0							23.0	
24.0							24.0	
25.0							25.0	
26.0							26.0	
27.0							27.0	
28.0							28.0	
29.0							29.0	
30.0							30.0	
31.0							31.0	
32.0							32.0	
33.0							33.0	
34.0							34.0	
35.0							35.0	
36.0							36.0	
37.0							37.0	
38.0							38.0	
39.0							39.0	
40.0							40.0	
41.0							41.0	
42.0							42.0	
43.0							43.0	
44.0							44.0	
45.0							45.0	
46.0							46.0	
47.0							47.0	
48.0							48.0	
49.0							49.0	
50.0							50.0	
51.0							51.0	
52.0							52.0	
53.0							53.0	
54.0							54.0	
55.0							55.0	

 2901 Via Fortuna Suite 600 Austin, Texas 78746	Release Delineation 20231010-1015-water	GS-09
	Incident # nAPP2328943035	November 2023



Logger:		Andrew Parker		Client:			Borehole ID:		
Driller:		Earth Workx		Ameredev Operatating			GS-10		
Drilling Method:		Geoprobe 6620DT		Project Name:					
Start Date:		11/15/2023		Ike's Containment 20231010-1015-water					
End Date:		11/15/2023		Location:					
				32.0207242, -103.2604662					
Depth (feet)	Description	Lithology	Comments	Cl (field)	EC	Cl (lab)	Borehole Completion	Depth (feet)	
				(ppm)	mS/cm	mg/kg			
0.0	0 - 1 ft						3/8 " bentonite hole plug	0.0	
1.0	Caliche Pad, dry, tan							1.0	
2.0	1 - 4 ft Sand, silt; brown, red; moist		0 to 2 ft	0.62 624		2.0			
3.0			2 to 4 ft	0.92 1310		3.0			
4.0			4.1 to 5 ft	0.80 1200		4.0			
5.0			5 to 6 ft	1.06 1960		5.0			
6.0	5 - 8 ft Silt, sand; brown, red; dry; caliche nodules		6 to 7 ft	1.45 2720		6.0			
7.0			7 to 8 ft	1.70 3480		7.0			
8.0						8.0			
9.0	8 - 9 ft Silt, sand; light brown; dry		8 to 9 ft	2940	2.08 5120	9.0			
10.0	9 - 13.25 ft Silt, sand; light brown; moist		9 to 10 ft	1.00 2240		10.0			
11.0			10 to 11 ft	0.87 1840		11.0			
12.0			11 to 12 ft	0.96		12.0			
13.0		12 to 13 ft	1.53		13.0				
14.0	13.25 - 14 ft Clay; brown, red; moist		13.25 to 14 ft	1.13		14.0			
15.0	14 - 16 ft		14 - 15 ft	1545	1.35 1880	15.0			
16.0	Med. Sand; poorly graded; brown; very moist					16.0			
17.0	16 - 17 ft Fine sand; poorly graded; light brown; very moist		17 ft TD - 17 ft	1.22		17.0			
18.0								18.0	
19.0							19.0		
20.0							20.0		
21.0							21.0		
22.0							22.0		
23.0							23.0		
24.0							24.0		
25.0							25.0		
26.0							26.0		
27.0							27.0		
28.0							28.0		
29.0							29.0		
30.0							30.0		
31.0							31.0		
32.0							32.0		
33.0							33.0		
34.0							34.0		
35.0							35.0		
36.0							36.0		
37.0							37.0		
38.0	38.0								
39.0	39.0								
40.0	40.0								
41.0	41.0								
42.0	42.0								
43.0	43.0								
44.0	44.0								
45.0	45.0								
46.0	46.0								
47.0	47.0								
48.0	48.0								
49.0	49.0								
50.0	50.0								
51.0	51.0								
52.0	52.0								
53.0	53.0								
54.0	54.0								
55.0	55.0								
 2901 Via Fortuna Suite 600 Austin, Texas 78746		Release Delineation 20231010-1015-water					GS-10		
		Incident # nAPP2328943035					November 2023		

# Appendix C

## Certificates of Analysis



Ameredev II, LLC



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

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October 20, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: IKE'S CONTAINMENT #1

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	10/17/2023	Sampling Date:	10/17/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: CS - 03 0-1 FT (H235672-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	2.08	104	2.00	1.13	
Toluene*	<0.050	0.050	10/19/2023	ND	2.14	107	2.00	1.79	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.29	115	2.00	2.30	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.92	115	6.00	2.51	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	180	90.0	200	0.0128	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	186	92.8	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager







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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amereider LLC</u> Project Manager: <u>Andrew Parker</u> Address: <u>On-File</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>20231010-1015-water</u> Project Location: <u>1/ke's containment #1</u> Sampler Name: <u>Christopher Turner</u>				<b>BILL TO</b> P.O. #: <u>20231010-1015-water</u> Company: <u>Amereider LLC</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				<b>ANALYSIS REQUEST</b>													
FOR LAB USE ONLY  Lab I.D. <u>H235672</u> Sample I.D. <u>CS-08 0-1F+</u>				(GIRAB OR (C)OMP. # CONTAINERS <u>1</u> MATRIX GROUNDWATER WASTEWATER SOIL <u>/</u> OIL SLUDGE OTHER: ACID/BASE: ICE / COOL <u>/</u> OTHER:				PRESERV. DATE <u>10.17.23</u> TIME <u>12:17</u>		SAMPLING Chloride <u>/</u> TPH (GRO + DRO + MRO) <u>/</u> BTEX (Benzene) <u>/</u>											

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 10.17.23		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		All Results are emailed. Please provide Email address:	
Relinquished By:		Time: 1448		Received By:		REMARKS: TEMP BLANK : 1.7c 			
Delivered By: (Circle One)		Observed Temp. °C 3.3c		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials) 		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
						Thermometer ID #140 Correction Factor 0°C			

FORM-000 R 3.4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

November 08, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: IKE'S CONTAINMENT #1

Enclosed are the results of analyses for samples received by the laboratory on 11/03/23 14:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 01 0-1 FT (H236054-01)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 01 1.5 FT (H236054-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506		
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468		
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND						

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 02 0-1 FT (H236054-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 02 1.5 FT (H236054-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 04 0-1 FT (H236054-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	141	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 04 1.5 FT (H236054-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 05 0-1 FT (H236054-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 05 1.5 FT (H236054-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	1.96	98.1	2.00	1.19		
Toluene*	<0.050	0.050	11/06/2023	ND	2.01	100	2.00	0.947		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.03	101	2.00	1.73		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.13	102	6.00	2.34		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
ANDREW PARKER  
2901 VIA FORTUNA , SUITE 600  
AUSTIN TX, 78746  
Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 06 0-1 FT (H236054-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	2.33	116	2.00	0.0337		
Toluene*	<0.050	0.050	11/06/2023	ND	2.14	107	2.00	1.93		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.12	106	2.00	2.70		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.09	102	6.00	3.11		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/06/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/06/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/03/2023	Sampling Date:	11/03/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: CS - 06 1.5 FT (H236054-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2023	ND	2.33	116	2.00	0.0337		
Toluene*	<0.050	0.050	11/06/2023	ND	2.14	107	2.00	1.93		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.12	106	2.00	2.70		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.09	102	6.00	3.11		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	188	94.2	200	0.506	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	172	85.8	200	0.468	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ameriflex LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																															
Project Manager: <u>Andrew Parker</u>				P.O. #: <u>20231010-1015-water</u>				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Change</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (PHO+DRO+MRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (Benzene)</div> </div>																															
Address: <u>On-File</u>				Company: <u>Ameriflex LLC</u>																																			
City: _____ State: _____ Zip: _____				Attn: <u>aparker@ameriflex.com</u>																																			
Phone #: _____ Fax #: _____				Address: _____																																			
Project #: _____ Project Owner: _____				City: _____																																			
Project Name: <u>20231010-1015-water</u>				State: _____ Zip: _____																																			
Project Location: <u>1ke's Containment #1</u>				Phone #: _____																																			
Sampler Name: _____				Fax #: _____																																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME											
<u>H236054</u>				<u>G</u>		<u>1</u>		<u>X</u>												<u>X</u>						<u>11/3/23</u>		<u>10:19</u>		<u>X</u> <u>X</u> <u>X</u>									
<u>1</u>		<u>CS-01</u>		<u>0-1 Ft</u>																																			
<u>2</u>		<u>CS-01</u>		<u>1.5 Ft</u>																																			
<u>3</u>		<u>CS-02</u>		<u>0-1 Ft</u>																																			
<u>4</u>		<u>CS-02</u>		<u>1.5 Ft</u>																																			
<u>5</u>		<u>CS-04</u>		<u>0-1 Ft</u>																																			
<u>6</u>		<u>CS-04</u>		<u>1.5 Ft</u>																																			
<u>7</u>		<u>CS-05</u>		<u>0-1 Ft</u>																																			
<u>8</u>		<u>CS-05</u>		<u>1.5 Ft</u>																																			
<u>9</u>		<u>CS-06</u>		<u>0-1 Ft</u>																																			
<u>10</u>		<u>CS-06</u>		<u>1.5 Ft</u>																																			

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Relinquished By: <u>CA</u>		Date: <u>11/3/2023</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>14:32</u>		Time: <u>14:32</u>		Time: _____		All Results are emailed. Please provide Email address:	
Relinquished By: _____		Date: _____		Received By: _____		REMARKS: <u>Temp Bicarke 29°C</u>	
Time: _____		Time: _____		Time: _____		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Delivered By: (Circle One)		Observed Temp. °C <u>7.2°C</u>		Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		CHECKED BY: (Initials) <u>[Signature]</u>		Thermometer ID #140 Correction Factor 0°C	
						Observed Temp. °C Corrected Temp. °C	

FORM-006 R 3.4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

---

November 13, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: IKE'S CONTAINMENT #1

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 14:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/13/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: CS - 04.1 0-1 FT (H236159-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1		
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/10/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/13/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: CS - 04.1 1.25 FT (H236159-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1		
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	11/10/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

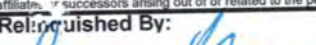
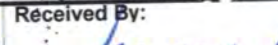



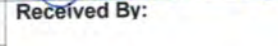



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 11-9-23	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: 		Date: 11-9-23	Received By: 	All Results are emailed. Please provide Email address:
Relinquished By: 		Date: 11-9-23	Received By: 	REMARKS:
Delivered By: (Circle One)		Observed Temp. °C -0.1	Sample Condition Cool Intact	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:		Corrected Temp. °C	CHECKED BY: (Initials) 	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
				Thermometer ID #140 Correction Factor 0°C
				2 Day

~~FORM-000 R 3.4 07711723~~

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

November 21, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: IKE'S CONTAINMENT #1

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 07 0-2 FT (H236286-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 07 2-4 FT (H236286-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 07 4.1-5 FT (H236286-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 08 0-2 FT (H236286-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 08 2-4 FT (H236286-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 08 4.1-5 FT (H236286-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 09 0-2 FT (H236286-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 09 2-4 FT (H236286-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 09 4.1-5 FT (H236286-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 54.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 50.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 09 5-6 FT (H236286-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 09 6-7 FT (H236286-11)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 0-2 FT (H236286-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 2-4 FT (H236286-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/17/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 4.1-5 FT (H236286-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 5-6 FT (H236286-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 6-7 FT (H236286-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 7-8 FT (H236286-17)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 8-9 FT (H236286-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290	
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69	
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77	
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38	
Total BTEX	<0.300	0.300	11/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 9-10 FT (H236286-19)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

AMEREDEV  
ANDREW PARKER  
2901 VIA FORTUNA , SUITE 600  
AUSTIN TX, 78746  
Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 10-11 FT (H236286-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.29	115	2.00	0.290		
Toluene*	<0.050	0.050	11/18/2023	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	2.19	109	2.00	4.77		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	6.43	107	6.00	6.38		
Total BTEX	<0.300	0.300	11/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	203	102	200	4.37	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	183	91.3	200	8.79	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 11 0-2 FT (H236286-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.18	109	2.00	2.63		
Toluene*	<0.050	0.050	11/17/2023	ND	2.15	108	2.00	3.18		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.14	107	2.00	3.19		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.66	111	6.00	2.88		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	189	94.6	200	1.32	
DRO >C10-C28*	902	10.0	11/17/2023	ND	181	90.6	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 11 2-4 FT (H236286-22)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.18	109	2.00	2.63		
Toluene*	<0.050	0.050	11/17/2023	ND	2.15	108	2.00	3.18		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.14	107	2.00	3.19		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.66	111	6.00	2.88		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	189	94.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	181	90.6	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 11 4.1-5 FT (H236286-23)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.18	109	2.00	2.63		
Toluene*	<0.050	0.050	11/17/2023	ND	2.15	108	2.00	3.18		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.14	107	2.00	3.19		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.66	111	6.00	2.88		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	189	94.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	181	90.6	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
ANDREW PARKER  
2901 VIA FORTUNA , SUITE 600  
AUSTIN TX, 78746  
Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 09 7-8 FT (H236286-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95		
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	189	94.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	181	90.6	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ameredeve II, LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Andrew Parker</u>				P.O. #: <u>20231010-1015-water</u>				<div style="display: flex; justify-content: space-between;"> <div> Chloride TPH (GRD + DRD + MRO) BTEX (Benzene) </div> </div>											
Address: <u>on-file</u>				Company: <u>Ameredeve II, LLC</u>															
City: _____ State: _____ Zip: _____				Attn: <u>aparker@amredeve.com</u>															
Phone #: _____ Fax #: _____				Address: _____															
Project #: _____ Project Owner: _____				City: _____															
Project Name: <u>20231010-1015-water</u>				State: _____ Zip: _____															
Project Location: <u>Ike's Containment #1</u>				Phone #: _____															
Sampler Name: <u>Christopher Turner</u>				Fax #: _____															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING					
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME					
<u>H236286</u>				<u>Q</u>		<u>1</u>						<u>✓</u>		<u>11/15/23 12:30</u>					
<u>1</u>		<u>GS-07 0-2 FT</u>										<u>✓</u>		<u>12:18</u>					
<u>2</u>		<u>GS-07 2-4 FT</u>										<u>✓</u>		<u>12:11</u>					
<u>3</u>		<u>GS-07 4.1-5 FT</u>										<u>✓</u>		<u>9:10</u>					
<u>4</u>		<u>GS-08 0-2 FT</u>										<u>✓</u>		<u>9:05</u>					
<u>5</u>		<u>GS-08 2-4 FT</u>										<u>✓</u>		<u>9:00</u>					
<u>6</u>		<u>GS-08 4.1-5 FT</u>										<u>✓</u>		<u>9:27</u>					
<u>7</u>		<u>GS-09 0-2 FT</u>										<u>✓</u>		<u>9:22</u>					
<u>8</u>		<u>GS-09 2-4 FT</u>										<u>✓</u>		<u>9:21</u>					
<u>9</u>		<u>GS-09 4.1-5 FT</u>										<u>✓</u>		<u>9:34</u>					
<u>10</u>		<u>GS-09 5-6 FT</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>✓</u>					

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Relinquished By: <u>[Signature]</u>		Date: <u>11/16/2023</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>5:00</u>		Time: <u>1515</u>		All Results are emailed. Please provide Email address:			
Relinquished By:		Date:		Received By:		REMARKS: <u>TEMP BLANK SR</u>	
Time:							
Delivered By: (Circle One)		Observed Temp. °C <u>0.2</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Thermometer ID - #113		Bacteria (only) Sample Condition	
				Correction Factor - 0.0°C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amercedev II, LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: <u>Andrew Parker</u>				P.O. #: <u>20231010-1015-water</u>				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH (GRO+DRO+MRO)</div> <div>BTEX (Benzene)</div> </div>																					
Address: <u>on-file</u>				Company: <u>Amercedev II, LLC</u>																									
City: _____ State: _____ Zip: _____				Attn: <u>aparker@amercedev.com</u>																									
Phone #: _____ Fax #: _____				Address: _____																									
Project #: _____ Project Owner: _____				City: _____																									
Project Name: <u>20231010-1015-water</u>				State: _____ Zip: _____																									
Project Location: <u>Ike's Containment #1</u>				Phone #: _____																									
Sampler Name: <u>Christopher Turner</u>				Fax #: _____																									
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<u>H236286</u>																													
<u>11</u>	<u>GS-09 6-7 FT</u>	<u>9</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>11/5/23</u>	<u>9:42</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>												
<u>12</u>	<u>GS-10 0-2 FT</u>													<u>10:29</u>															
<u>13</u>	<u>GS-10 2-4 FT</u>													<u>10:26</u>															
<u>14</u>	<u>GS-10 4.1-5 FT</u>													<u>10:23</u>															
<u>15</u>	<u>GS-10 5-6 FT</u>													<u>10:40</u>															
<u>16</u>	<u>GS-10 6-7 FT</u>													<u>10:44</u>															
<u>17</u>	<u>GS-10 7-8 FT</u>													<u>10:48</u>															
<u>18</u>	<u>GS-10 8-9 FT</u>													<u>10:52</u>															
<u>19</u>	<u>GS-10 9-10 FT</u>													<u>11:06</u>															
<u>20</u>	<u>GS-10 10-11 FT</u>	<u>✓</u>				<u>✓</u>				<u>✓</u>			<u>✓</u>	<u>11:09</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>												

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Relinquished By: <u>[Signature]</u>	Date: <u>11/6/2023</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>3:04:55</u>		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		<u>TEMP BIAH 25.2</u>
Delivered By: (Circle One)	Observed Temp. °C <u>0.2</u>	Sample Condition	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
CHECKED BY: (Initials) <u>[Signature]</u>		Thermometer ID: <u>#113</u> Correction Factor: <u>-0.6°C</u> <u>#140</u>	

FORM-006 R 3.3 07/18/22

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(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ameredevel II, LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Andrew Parker</u>				P.O. #: <u>20231010-1015-water</u>				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (DRO+GRO+MRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (Benzene)</div> </div>											
Address: <u>on-file</u>				Company: <u>Ameredevel II, LLC</u>															
City: _____ State: _____ Zip: _____				Attn: <u>aparker@ameredevel.com</u>															
Phone #: _____ Fax #: _____				Address: _____															
Project #: _____ Project Owner: _____				City: _____															
Project Name: <u>20231010-1015-water</u>				State: _____ Zip: _____															
Project Location: <u>Ikes Containment #1</u>				Phone #: _____															
Sampler Name: <u>Christopher Turner</u>				Fax #: _____															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		MATRIX				PRESERV.		SAMPLING							
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE		TIME					
<u>H236286</u>																			
<u>21 GS-11</u>		<u>0-2 FT</u>		<u>1</u>						<u>✓</u>		<u>11/15/23</u>		<u>10:10</u>					
<u>22 GS-11</u>		<u>2-4 FT</u>		<u>1</u>						<u>✓</u>		<u>10:05</u>							
<u>23 GS-11</u>		<u>4.1-5 FT</u>		<u>1</u>						<u>✓</u>		<u>10:01</u>							
<u>24 GS-09</u>		<u>7-8 FT</u>		<u>1</u>						<u>✓</u>									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>11/16/2023</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>3:05 PM</u>		Time: <u>3:05 PM</u>		Time: _____		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:		<u>TEMP DIAP: 512</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>0.2</u>		Sample Condition		CHECKED BY: (Initials) <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Thermometer ID: #113 Correction Factor: -0.4°C	
						Observed Temp. °C	
						Corrected Temp. °C	

FORM-006 R 3.3 07/18/22

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---

November 21, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: IKE'S CONTAINMENT #1

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

Received:	11/16/2023	Sampling Date:	11/15/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	IKE'S CONTAINMENT #1	Sampling Condition:	Cool & Intact
Project Number:	20231010-1015-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: GS - 10 14-15 FT (H236285-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95		
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	11/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

---

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS  
  
Action 291332

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2328943035
Incident Name	NAPP2328943035 20231010-1015-WATER IKE'S NW AST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	20231010-1015-WATER IKE'S NW AST
Date Release Discovered	10/10/2023
Surface Owner	Private

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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 17 BBL   Recovered: 0 BBL   Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 291332

**QUESTIONS (continued)**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
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: Andrew Parker Title: Environmental Scientist Email: <a href="mailto:aparker@ameredev.com">aparker@ameredev.com</a> Date: 12/05/2023
--	--



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QUESTIONS, Page 3

Action 291332

**QUESTIONS (continued)**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (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 ½ and 1 (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
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.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5120
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	902
GRO+DRO (EPA SW-846 Method 8015M)	902
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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	11/15/2023
On what date will (or did) the final sampling or liner inspection occur	11/15/2023
On what date will (or was) the remediation complete(d)	11/15/2023
What is the estimated surface area (in square feet) that will be reclaimed	7714
What is the estimated volume (in cubic yards) that will be reclaimed	1143
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

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 291332

**QUESTIONS (continued)**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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)	Yes
Other Non-listed Remedial Process. Please specify	Based on results of site characterization and laboratory analytical data, no remediation was required as the release area is on an active production pad in-use for oil and gas operations. The active production site was restored per 19.15.29.13.A-C. When the production site is no longer in use for oil and gas operations, the surface shall be remediated, restored, and reclaimed per 19.15.29.13.D

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: Andrew Parker Title: Environmental Scientist Email: aparker@ameredev.com Date: 12/05/2023
--	--

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 5  
  
Action 291332

QUESTIONS (continued)

Operator:  AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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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QUESTIONS, Page 6

Action 291332

**QUESTIONS (continued)**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	291665
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/02/2023
What was the (estimated) number of samples that were to be gathered	11
What was the sampling surface area in square feet	34600

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Based on results of site characterization and laboratory analytical data, no remediation was required as the release area is on an active production pad in-use for oil and gas operations. The active production site was restored per 19.15.29.13.A-C. When the production site is no longer in use for oil and gas operations, the surface shall be remediated, restored, and reclaimed per 19.15.29.13.D

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Environmental Scientist Email: aparker@ameredev.com Date: 12/06/2023
--	--

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
811 S. First St., Artesia, NM 88210  
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**District III**  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
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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, Page 7  
  
Action 291332

QUESTIONS (continued)

Operator:  AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	291332
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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**Santa Fe, NM 87505**

CONDITIONS  
  
Action 291332

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 291332
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	3/13/2024
nvelez	The following will be administered from this point forward per 19.15.29.12D (1) NMAC; The responsible party must test the remediated areas for contamination with representative five-point composite samples from the walls and base, and individual grab samples from any wet or discolored areas. The samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC or constituents from other applicable remediation standards.	3/13/2024