

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

QUESTIONS
Action 144923

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 144923
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source Please answer all of the questions in this group.	
Site Name	20220916-2040-water Redbud 4S
Date Release Discovered	09/16/2022
Surface Owner	Private

Incident Details Please answer all of 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
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: 174 BBL Recovered: 80 BBL Lost: 94 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
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 144923

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 144923
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Andrew Parker
If YES, was immediate notice given to the OCD, to whom	OCD.Enviro@state.nm.us, mike.bratcher@state.nm.us
If YES, was immediate notice given to the OCD, when	09/17/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 144923

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 144923
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS

Action 144923

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 144923
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
aparker1969	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	9/20/2022

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	27886.34
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]	976.0
		[gal]	7301.2
		Barrels	173.8
		Recovered	80.0
		Net	93.8

From GIS	
Sq. Ft	55773
Depth (ft)	0.5
Cu. Ft	27886

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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	nAPP2226344597
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Ameredev Operating, LLC	OGRID: 372224
Contact Name: Shane M ^c Neely	Contact Telephone: (737) 300-4700
Contact email: smcneely@ameredev.com	Incident # (assigned by OCD) nAPP2226344597
Contact mailing address: 2901 Via Fortuna, Suite 600 Austin, Texas 78746	

Location of Release Source

Latitude 32.078926 _____ Longitude -103.2902143 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 20220916-2040-water Redbud 4S	Site Type Production Site
Date Release Discovered 09/16/2022 at 20:40 hrs MST.	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	5	26S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: EOG Resources _____)

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) 173.8	Volume Recovered (bbls) 80
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input 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)

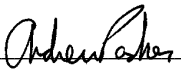
Cause of Release Failure of containment wall liner on the Minion Fluid Storage Tank.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25bbls released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us >; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; via email on 09/17/2022 at 10:55 am MST.	

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>09/20/2022</u>
email: <u>aparker@ameredev.com</u>	Telephone: <u>970-570-9535</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/21/2023</u>

Incident ID	nAPP2226344597
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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? <u>Plate 2</u>	<u>>100</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? <u>Plate 4</u>	<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)? <u>Plate 4</u>	<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? <u>Plate 5</u>	<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? <u>Plate 3</u>	<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? <u>Plate 3</u>	<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? <u>Plate 3</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <u>Plate 6</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <u>Plate 7</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <u>Plate 8</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <u>Plate 9</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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.*

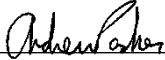
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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

Incident ID	nAPP2226344597
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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: March 20, 2023email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn HarimonDate: 03/21/2023

Incident ID	nAPP2226344597
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Facility ID	
Application ID	

Remediation Plan

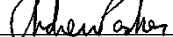
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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: March 20, 2023email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn Harimon Date: 03/21/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Incident ID	nAPP2226344597
District RP	
Facility ID	
Application ID	

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.

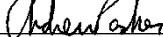
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ 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: March 20, 2023

email: aparker@ameredev.com

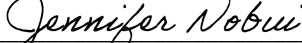
Telephone: 970-570-9535

OCD Only

Received by: Jocelyn Harimon

Date: 03/21/2023

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: 04/26/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



Ameredev II, LLC

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

March 20, 2023

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

RE: Deferral Request
Incident #: nAPP2226344597
AEP #: 20220916-2040-water
Location: Redbud 4S

NMOCD:

Ameredev II, LLC respectfully submits this characterization report and deferral request for incident number nAPP2226344597.

The release occurred on September 16, 2022 due to leak at the bottom of the on-site minion fluid storage tank and the failure of the containment liner. The calculated volume of released recycled produced water was 174 bbls with 80 bbls recovered, with a net unrecovered release volume of 94 bbls. Ameredev provided email notification of major release to NMOCD on September 17, 2022. Communications are included in Appendix A.

The release occurred on an active production site located on Fee surface. A portion of the release migrated off-site onto a right of way (ROW) to the south of the production site and onto pasture to the west of the production site. Figures 1 and 2 show the on-site and southern off-site release extent. After the completion of drilling operations, the minion tank was deconstructed and removed from the location. The release did not impact surface or ground water.

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud 4S



*Figure 1: View of on-site release extent facing southwest from eastern extent.
Date Taken: 2022-09-17 12:46:16. GPS: 32.0788061, -103.2899903*



*Figure 2: View of southern release extent facing west.
Date Taken: 2022-09-17 12:40:53. GPS: 32.0784761, -103.2903744*

March 20, 2023

Released to Imaging: 4/26/2023 11:41:41 AM

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud 4S

1. Characterization

The following sections address items as described in 19.15.29.11.A NMAC, paragraphs 1- 5. 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 by visual observations on the day of the release and mapped using GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the Redbud/Holly 4S production site, utilities, pipelines, ROW and pasture. The coordinates of the source of the release are 32.0787015, -103.2907975. The release extent covered approximately 55,773 sq ft.

1.2. Depth to Ground Water

The nearest depth-to-water boring relative to the release extent is mapped on Plate 2. This borehole has been plugged. The Office of the State Engineer well logs are attached in Appendix B:

- MISC-410 (CP-1922) is located 0.33-miles southeast of the release extent with a depth to water of > 101 ft. dated 09/26/2022.

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 ½-mile private and domestic water sources (wells and springs).
- 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 fresh water well or spring

1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is:

- Not within ½ mile of a significant water course. The nearest significant water course is mapped as an intermittent stream 0.97-miles east northeast from the release location.
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

March 20, 2023

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud 4S

1.5. Soil/Waste Characteristics

The release occurred in the Pyote soils and Dune land complex with a slope of 0 – 3%¹. The USDA Natural Resources Conservation Service (NRCS) soil survey describes the upper 5-feet of the Pyote soils lithology as:

- A - 0 to 30 inches: fine sand
- Bt - 30 to 60 inches: fine sandy loam

and Dune land lithology as:

- A - 0 to 6 inches: fine sand
- C - 6 to 60 inches: fine sand

The lithology as described by the NRCS is consistent with observed remediation and construction activities through the area of interest.

Characterization sampling and associated results are discussed in the Remediation Plan section, below.

2. Remediation Plan

On February 22 and March 13, 2023, Ameredev proceeded with comprehensive soil sampling of the release to determine remedial actions. Core samples were collected at the surface (0-2 ft) for horizontal delineation and at specified depths below the surface to evaluate the vertical extent of impacted soil.

Plate 10 shows:

- Sample points GS-01 through GS-15 and GS-28 represent horizontal delineation of the release extent.
- Sample points GS-16 through GS-27 represent initial on-site vertical delineation.
- The 100 series sample points represent additional confirmation samples.

Plate 11 shows:

- Off-site confirmation sample grids.

Table A identifies sample point coordinates.

Table B is a Summary of Analytical.

Certificates of Analysis are included in Appendix C.

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

March 20, 2023

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud 4S

On-site Sampling

Analysis of constituents of concern showed that all on-site soil samples met Closure Criteria, defined below, according to Table 1 of 19.15.29 NMAC for the release area on an active production-site that is in use for oil and gas operations and where depth to water is > 100 ft.

- 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

Lateral/horizontal delineation of on-site release extent to 600 mg/kg for chlorides is also demonstrated.

Off-site Sampling

Off-site portions of the release extent were divided into sample grids with square footage of no greater than 200 square feet (Plate 11). Based on initial samples obtained off-site on February 22, Ameredev performed additional off-site sampling on March 13 of grids GS-101 – GS-114. Sample GS-23 was also used as a confirmation sample for grid G-102, and sample GS-17 was used as a confirmation sample for grid G-110.

Samples were analyzed for constituents of concern listed on Table 1 of 19.15.19 NMAC. Off-site samples met most stringent Closure Criteria, where

- Chloride < 600 mg/kg
- TPH (GRO + DRO + MRO) < 100 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

No remediation occurred and boreholes were backfilled. On-site surface was restored to an active production site. Off-site surface was restored and reclaimed either as a right-of-way or pastureland.

March 20, 2023

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud 4S

3. Deferral Request

Ameredev respectfully asks NMOCD for deferral of impacted areas on the active production site. This area meets the criteria for deferral request as defined in 19.15.29.12.C.(2):

- 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.

Analysis of samples obtained for horizontal and vertical delineation of the release extent on the active production site demonstrated that constituents of concern met the Closure Criteria of Table I of 19.15.29.12 NMAC, where groundwater > 100 ft below ground surface. Lateral/horizontal delineation also demonstrates that chlorides are < 600 mg/kg.

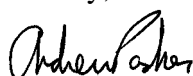
The release extent off-site met the most stringent closure criteria per Table 1 of 19.15.29 NMAC

If NMOCD determines that confirmation sample analytical results meet Closure Criteria concentrations as listed in Table 1 of 19.15.29 NMAC, a C-141 Closure Form is attached for approval.

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.A-D.

Please contact me with any questions.

Sincerely,



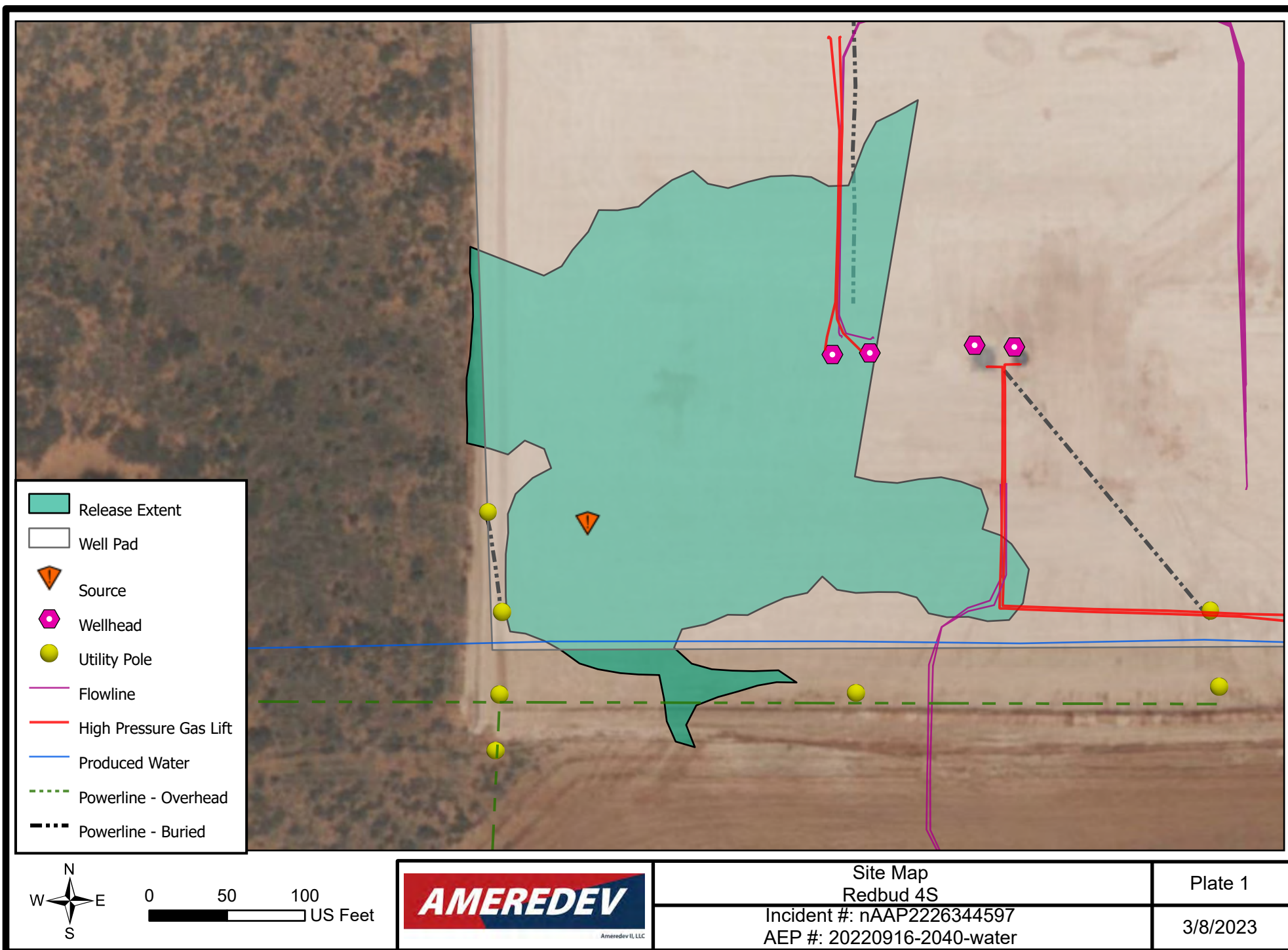
Andrew Parker
Ameredev Operating, LLC
Environmental Scientist

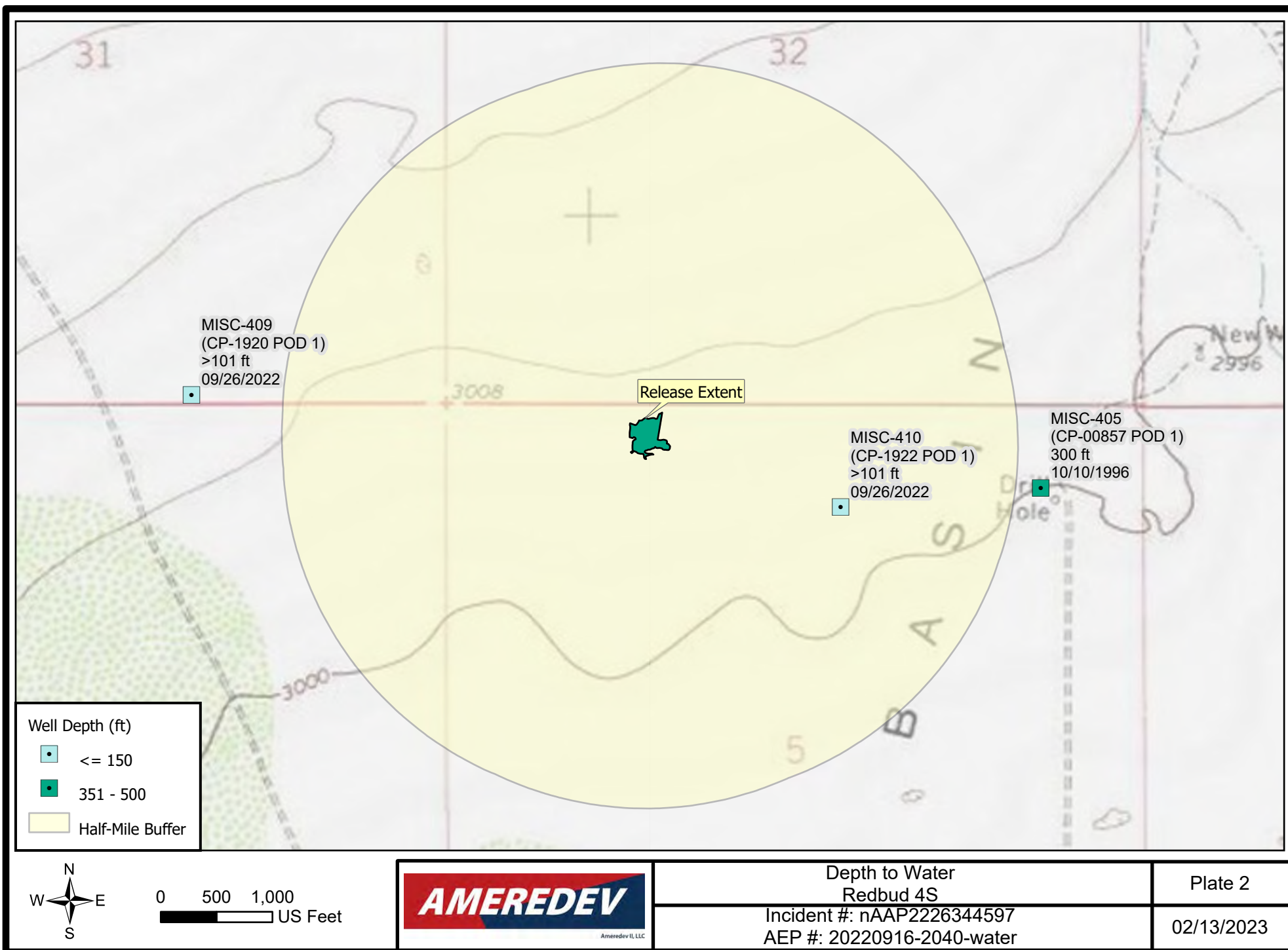
March 20, 2023

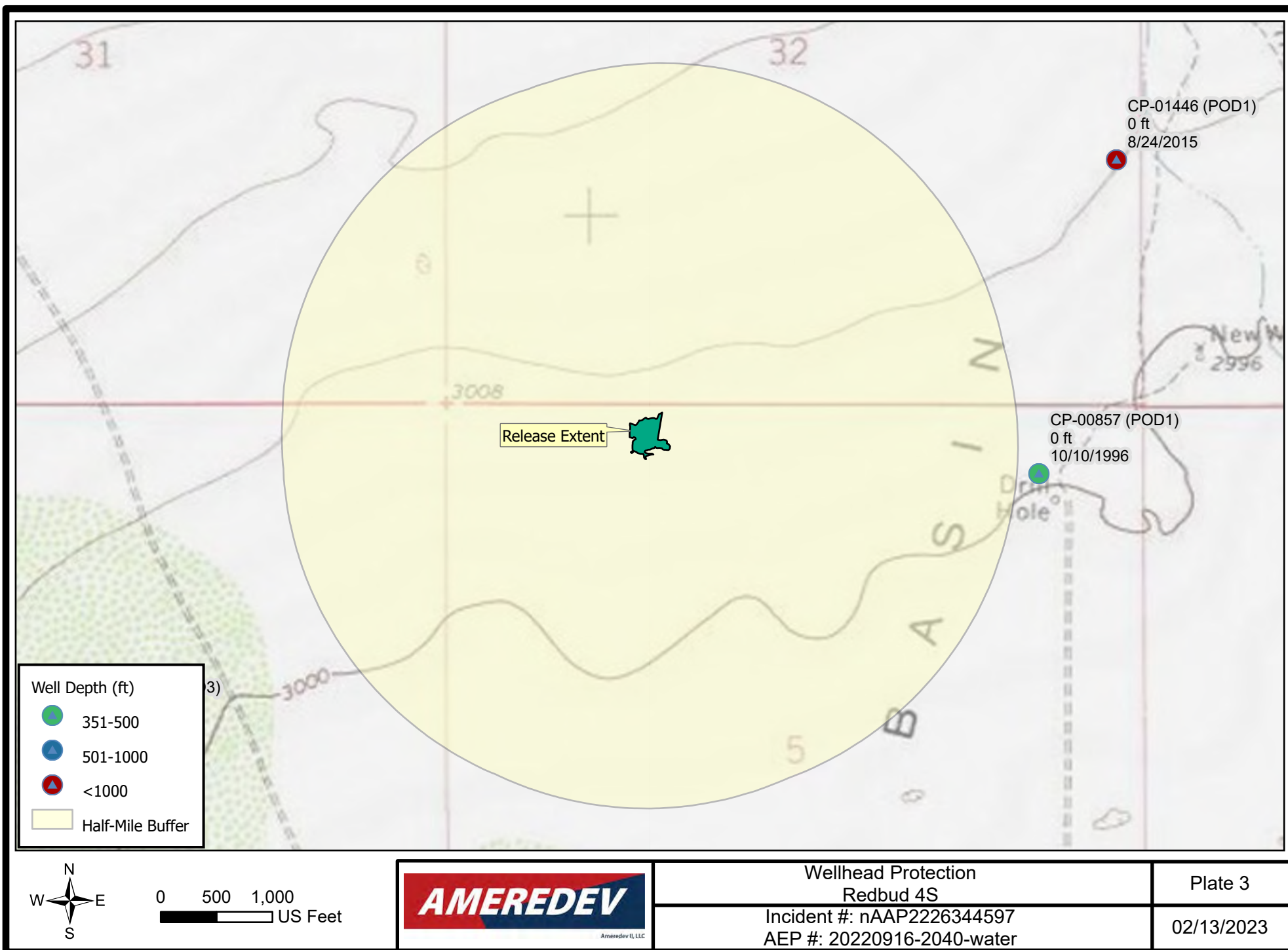
Plates

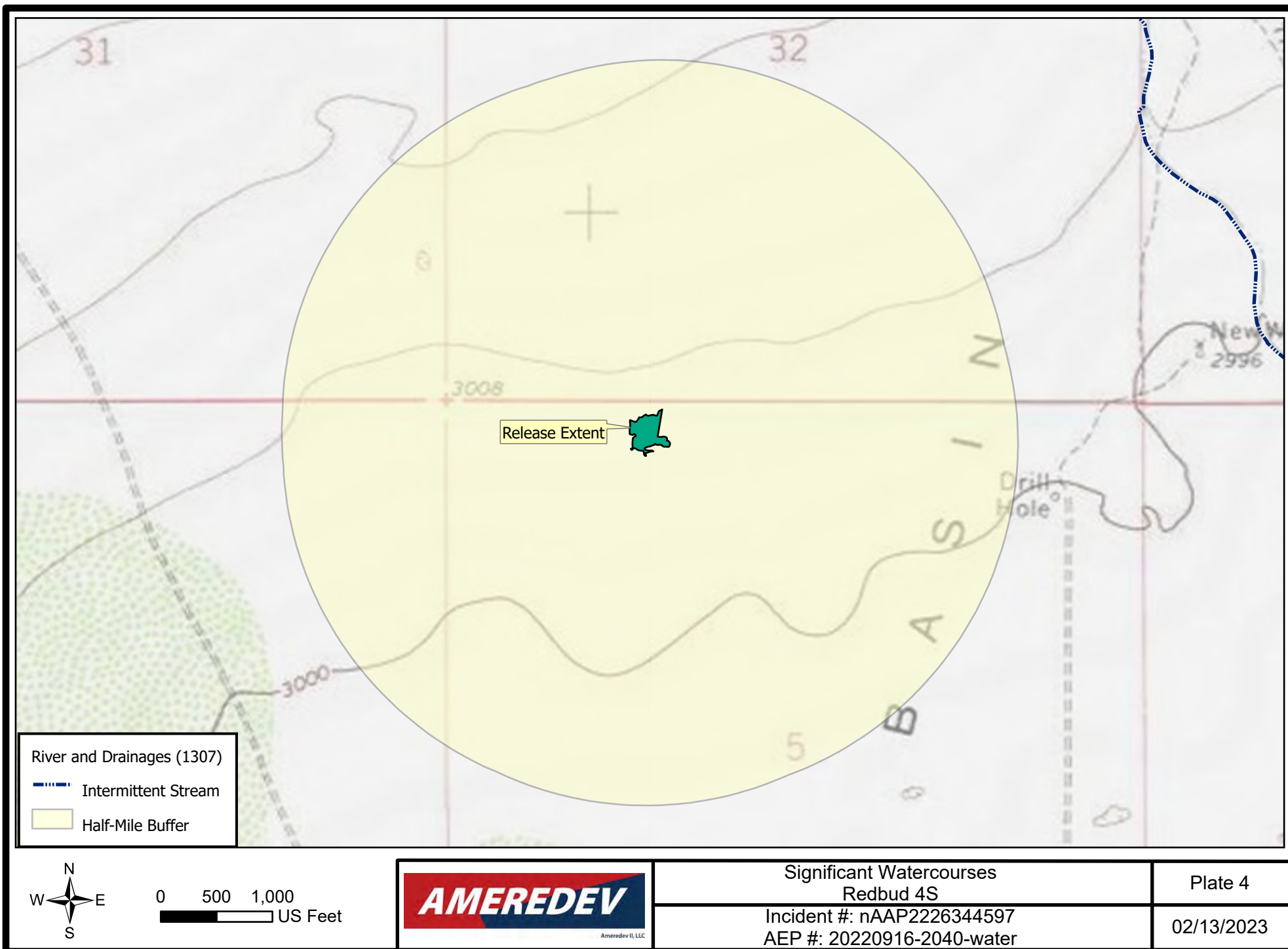


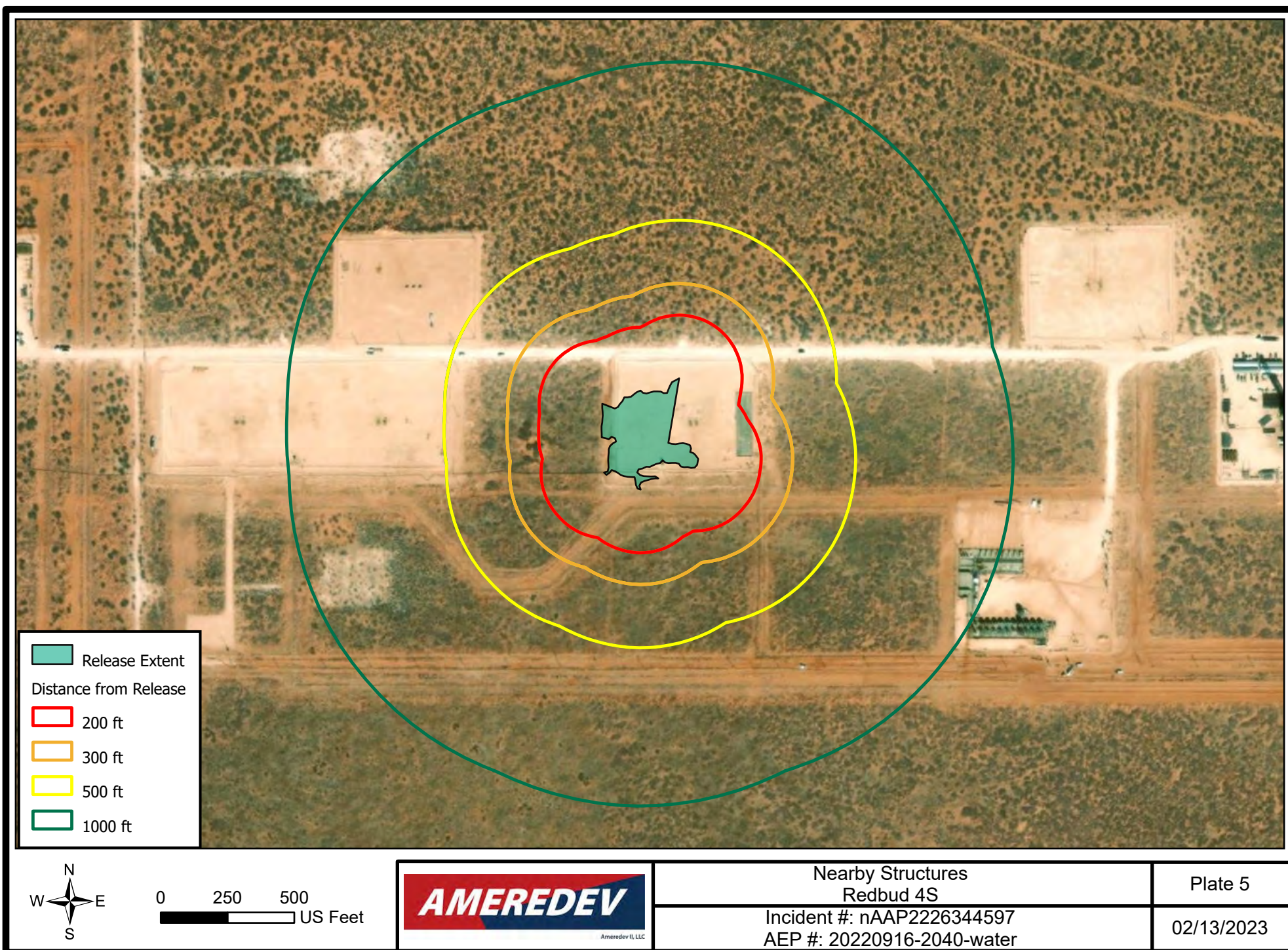
Ameredev II, LLC

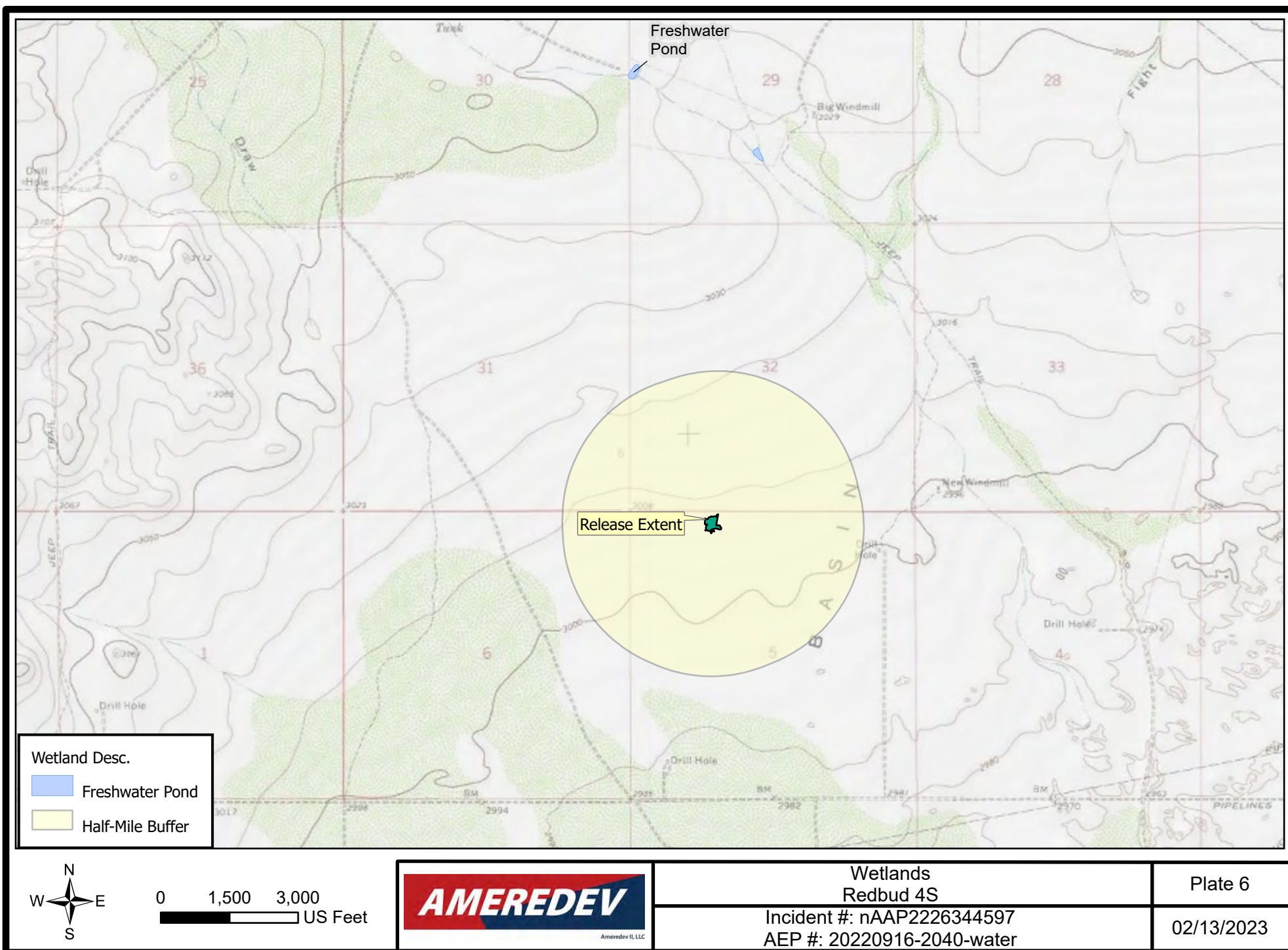


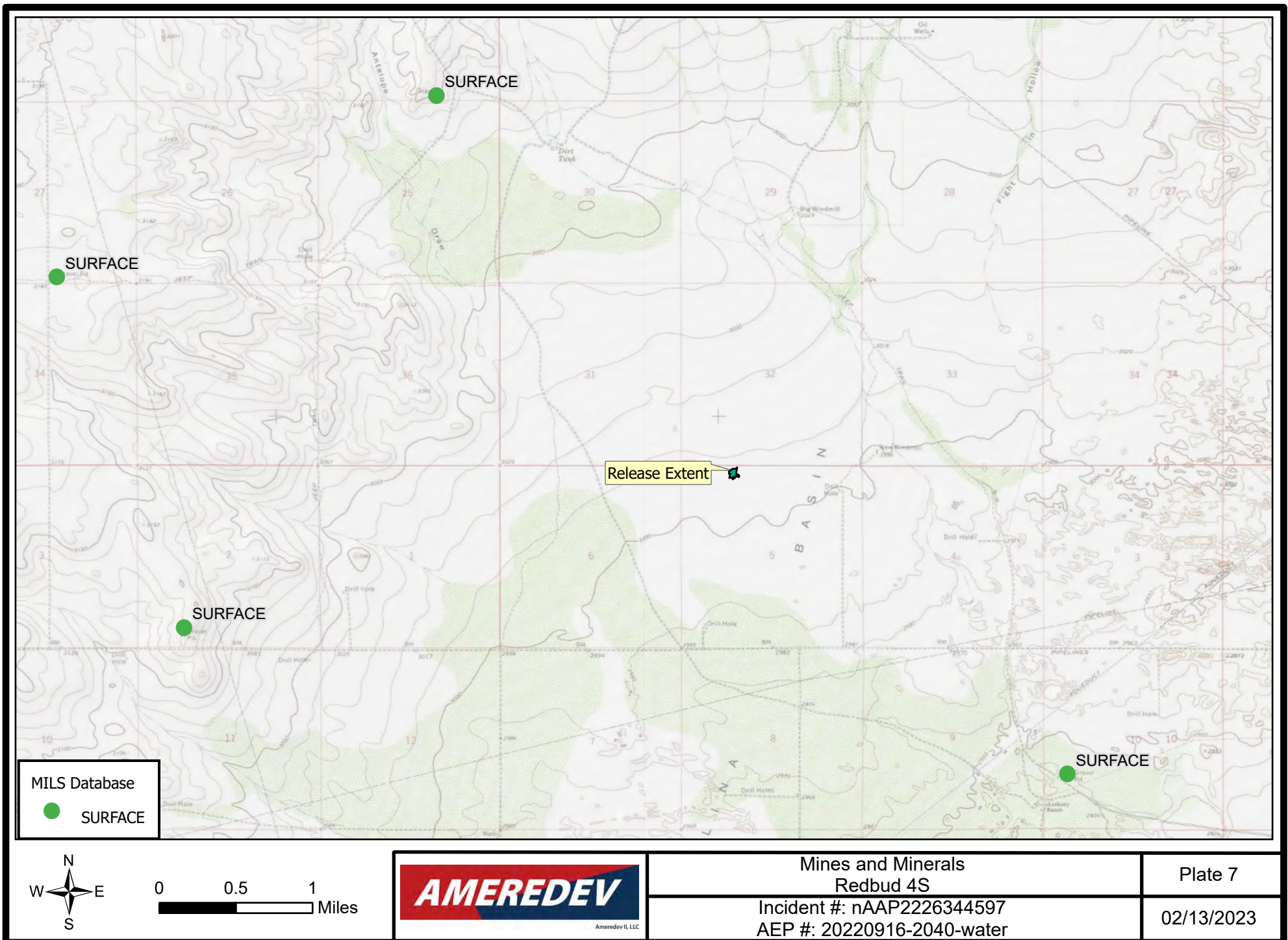


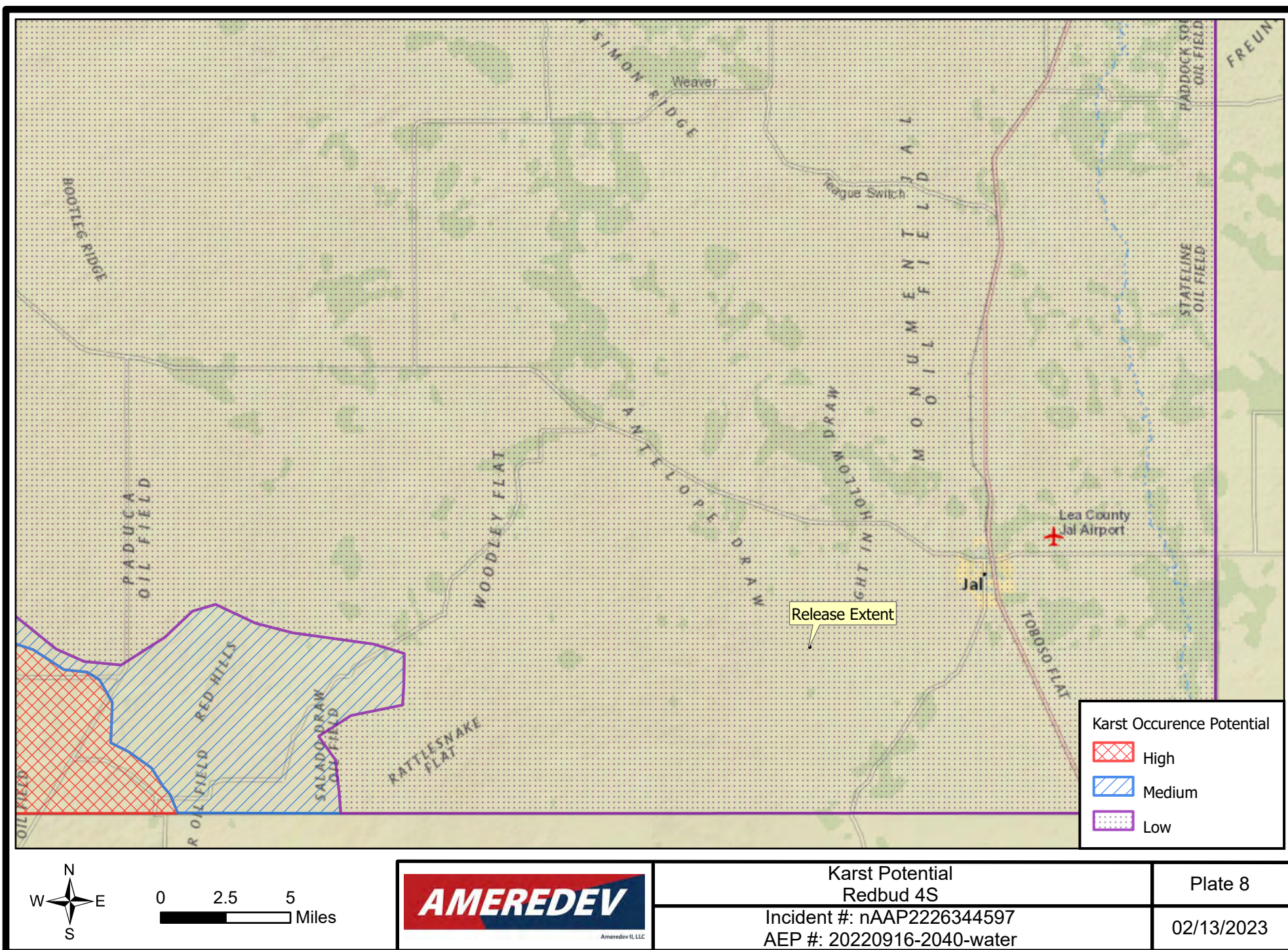


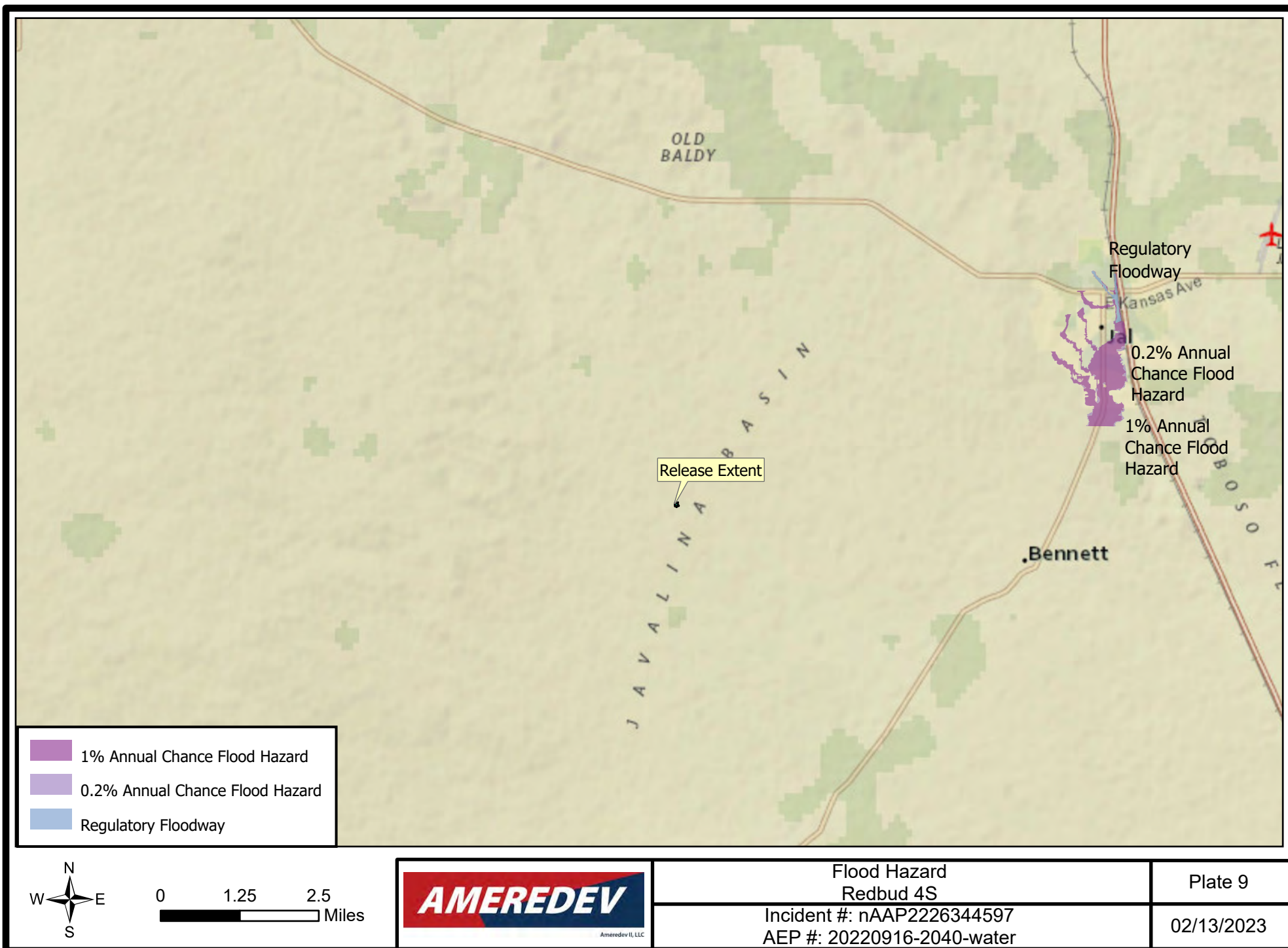


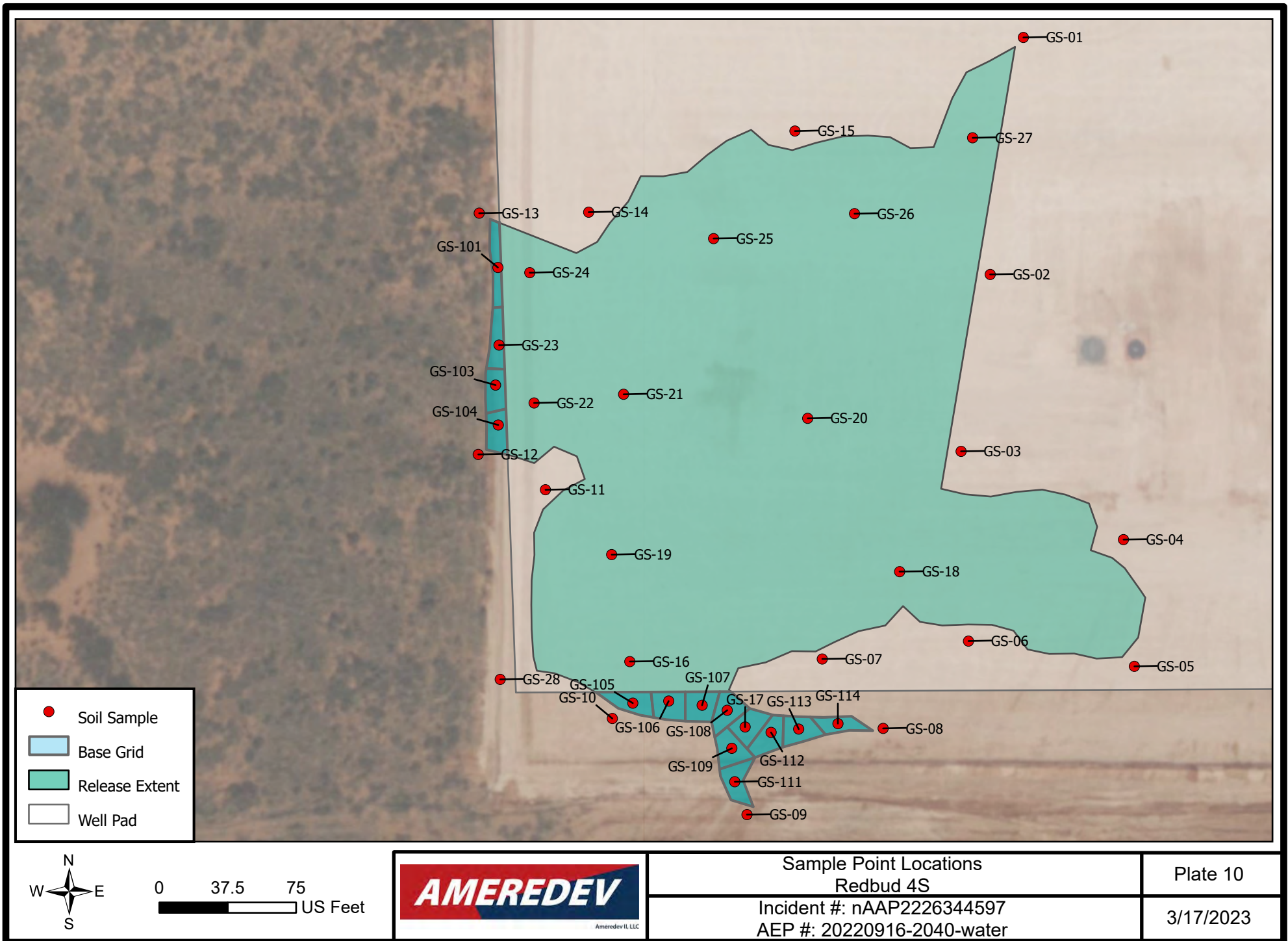


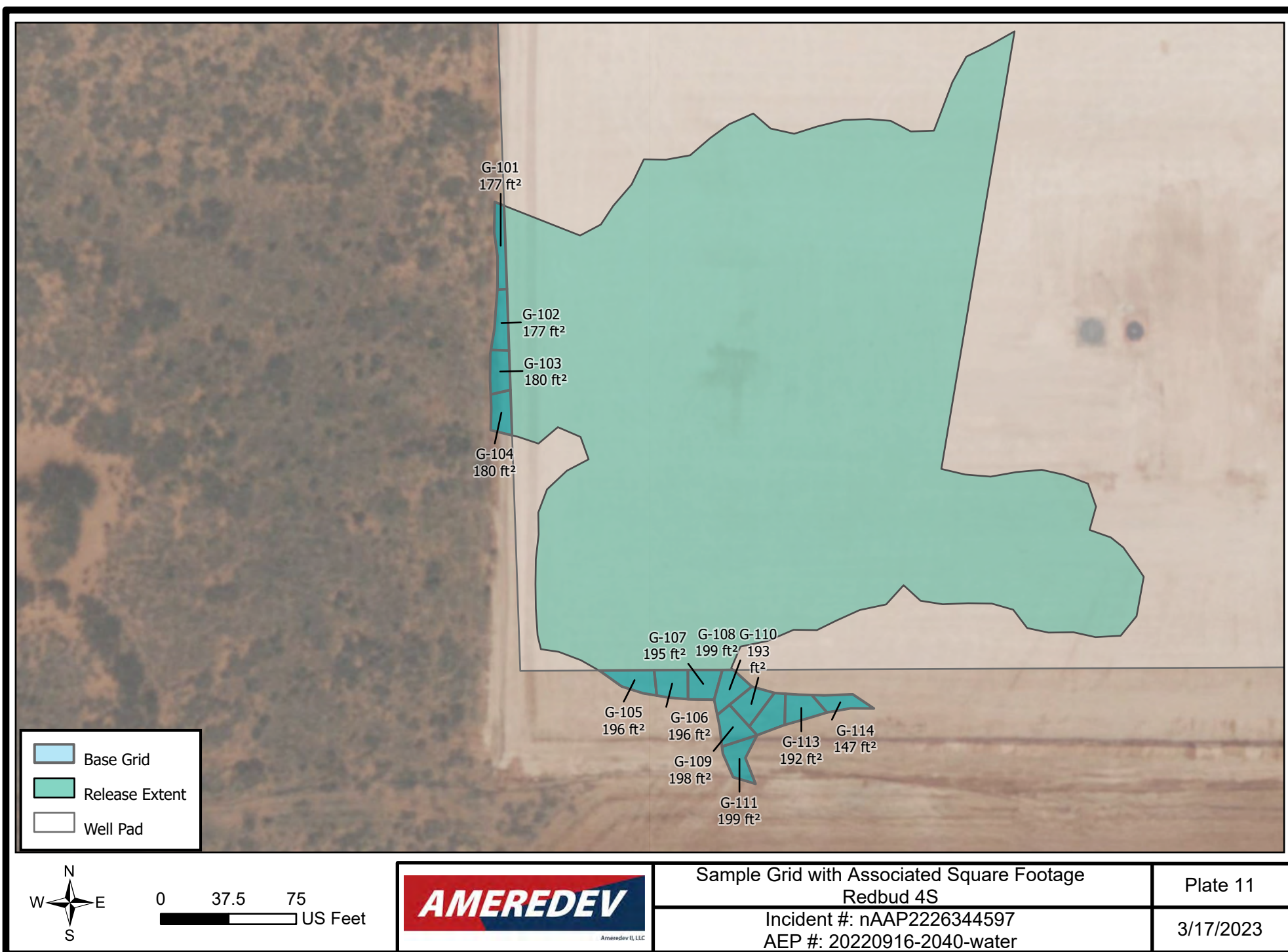












Tables



Ameredeve II, LLC

Sample Point	Latitude	Longitude
GS-01	32.07934115	-103.2902023
GS-02	32.07904002	-103.2902520
GS-03	32.07881522	-103.2902957
GS-04	32.07870315	-103.2900521
GS-05	32.07854212	-103.2900358
GS-06	32.07857415	-103.2902847
GS-07	32.07855141	-103.2905040
GS-08	32.07846326	-103.2904126
GS-09	32.07834443	-103.2906259
GS-10	32.07847581	-103.2908189
GS-11	32.07876651	-103.2909193
GS-12	32.07881133	-103.2910201
GS-13	32.07911792	-103.2910187
GS-14	32.07911914	-103.2908545
GS-15	32.07922225	-103.2905450
GS-16	32.07854813	-103.2907927
GS-17	32.07846504	-103.2906197
GS-18	32.07866239	-103.2903879
GS-19	32.07868409	-103.2908200
GS-20	32.07885721	-103.2905259
GS-21	32.07888778	-103.2908021
GS-22	32.07887674	-103.2909364
GS-23	32.07895032	-103.2909890
GS-24	32.07904229	-103.2909428
GS-25	32.07908558	-103.2906670
GS-26	32.07911728	-103.2904556
GS-27	32.07921368	-103.2902785
GS-28	32.07848648	-103.2909969
GS-101	32.07904883	-103.2909906
GS-103	32.07889945	-103.2909942
GS-104	32.07884874	-103.2909901
GS-105	32.07849534	-103.2907883
GS-106	32.07849800	-103.2907343
GS-107	32.07849268	-103.2906842
GS-108	32.07848631	-103.2906466
GS-109	32.07843797	-103.2906397
GS-111	32.07839548	-103.2906353
GS-112	32.07845816	-103.2905808
GS-113	32.07846241	-103.2905394
GS-114	32.07846931	-103.2904805

March 17, 2023

Table B
Summary of Analytical

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud 4S

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			
GS-01	2/22/2023		0	2	On Site	64	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-02	2/22/2023		0	2	On Site	176	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-03	2/22/2023		0	2	On Site	96	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-04	2/22/2023		0	2	On Site	48	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-05	2/22/2023		0	2	On Site	80	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-06	2/22/2023		0	2	On Site	80	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-07	2/22/2023		0	2	On Site	48	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-08	2/22/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-09	2/22/2023		0	2	Off Site	16	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-10	2/22/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-11	2/22/2023		0	2	On Site	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-12	2/22/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-13	2/22/2023		0	2	Off Site	64	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-14	2/22/2023		0	2	On Site	128	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-15	2/22/2023		0	2	On Site	160	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H230843
GS-16	2/22/2023		0	2	On Site	64	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-17	2/22/2023		0	2	Off Site	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H230843
GS-18	2/22/2023		0	2	On Site	1230	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-18	2/22/2023		2	4	On Site	160	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-19	2/22/2023		0	2	On Site	128	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-20	2/22/2023		0	2	On Site	1040	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-20	2/22/2023		2	4	On Site	1100	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-20	2/22/2023	4.5			On Site	112	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-21	2/22/2023		0	2	On Site	2480	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-21	2/22/2023		2	4	On Site	3200	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-21	2/22/2023	4.5			On Site	1480	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-22	2/22/2023		0	2	On Site	1440	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-22	2/22/2023		2	4	On Site	1520	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-22	2/22/2023	4.5			On Site	386	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-23	2/22/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H230843
GS-24	2/22/2023		0	2	On Site	160	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-24	2/22/2023		2	4	On Site	2000	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-24	2/22/2023	4.5			On Site	1100	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-25	2/22/2023		0	2	On Site	336	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-25	2/22/2023		2	4	On Site	64	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-26	2/22/2023		0	2	On Site	80	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-27	2/22/2023		0	2	On Site	96	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H230843
GS-28	3/13/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H231142
GS-101	3/13/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-103	3/13/2023		0	2	Off Site	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-104	3/13/2023		0	2	Off Site	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142

March 17, 2023

Table B
Summary of Analytical

Incident #: nAPP2226344597
AEP #: 20220916-2040-water
Location: Redbud 4S

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	Lab #
												(Hall/Cardinal)	
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			
GS-105	3/13/2023		0	2	Off Site	144	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-106	3/13/2023		0	2	Off Site	224	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-107	3/13/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-108	3/13/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-109	3/13/2023		0	2	Off Site	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-111	3/13/2023		0	2	Off Site	112	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-112	3/13/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-113	3/13/2023		0	2	Off Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142
GS-114	3/13/2023		0	2	Off Site	128	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H231142

Appendix A

Communications



Ameredev II, LLC

Andrew Parker

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Monday, March 13, 2023 4:44 PM
To: Andrew Parker
Cc: Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD
Subject: FW: [EXTERNAL] nAPP2226344597 Red Bud/Holly 4S

External (jennifer.nobui@emnrd.nm.gov)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Hello Andrew

Thank you for the notification. Please 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.

Notification for liner inspections and obtaining confirmation samples is two business days, not 48 hours. You may proceed with this inspection, however two business days' notice is required going forward. Inspections and confirmation samples will not be accepted without proper notification.

19.15.29.11 A.(5)(a)(ii) at least two business days' notice to the appropriate division district office before conducting the liner inspection.

19.15.29.12D.(a) The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling. If the division district office does not respond to the notice within the two business days, the responsible party may proceed with final sampling. The responsible party may request a variance from this requirement upon a showing of good cause as determined by the division.

Please note: Notice to ocd.enviro@emnrd.nm.gov and/or project reviewer or Incident Supervisor is considered notice to the appropriate district office.

Thanks,
Jennifer Nobui

From: Andrew Parker <aparker@ameredev.com>
Sent: Monday, March 13, 2023 8:18 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laura Parker <lparker@ameredev.com>; Jesus Palomares <jpalomares@ameredev.com>
Subject: FW: [EXTERNAL] nAPP2226344597 Red Bud/Holly 4S

NMOCD,

In reference to the below email, additional off-site characterization sampling occurred on March 9th. Remaining offsite characterization/confirmation will be collected today (March 13) as we have an opening to mobilize and collect soil samples. Characterization samples may be used for confirmation samples. Per 19.15.29 NMAC, please accept this email as the 2-day confirmation sampling notice. Ameredev understands that the 2-day notice was not met per the Rule and

that NMOCD may request additional confirmation samples. A Remediation Plan will be submitted to NMOCD upon review of characterization sample analytical results.

A copy of this correspondence will be included in the forthcoming Remediation Plan.

Incident #: nAPP2226344597

AEP #: 20220916-2040-water

Location: Redbud/Holly 4S

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, February 17, 2023 8:24 AM
To: Andrew Parker <aparker@ameredev.com>
Cc: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] nAPP2226344597 Red Bud/Holly 4S

Andrew,

Thank you for the notification. Please 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.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Andrew Parker <aparker@ameredev.com>
Sent: Thursday, February 16, 2023 12:07 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jesus Palomares <jpalomares@ameredev.com>; Dayeed Khan <dkhan@ameredev.com>
Subject: [EXTERNAL] nAPP2226344597 Red Bud/Holly 4S

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 business day notice for incident nAPP2226344597 per 19.15.29 NMAC. Characterization samples may be used for confirmation samples for deferral/closure. Soil sampling is to begin on Wednesday February 22, 2023.

Please contact me with any questions.

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, September 20, 2022 1:24 PM
To: Andrew Parker <aparker@ameredev.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 144923

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#) nAPP2226344597, 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 nAPP2226344597, 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

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

Andrew Parker

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, February 17, 2023 9:24 AM
To: Andrew Parker
Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] nAPP2226344597 Red Bud/Holly 4S

External (ocd.enviro@emnrd.nm.gov)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Andrew,

Thank you for the notification. Please 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.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Andrew Parker <aparker@ameredev.com>
Sent: Thursday, February 16, 2023 12:07 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jesus Palomares <jpalomares@ameredev.com>; Dayeed Khan <dkhan@ameredev.com>
Subject: [EXTERNAL] nAPP2226344597 Red Bud/Holly 4S

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 business day notice for incident nAPP2226344597 per 19.15.29 NMAC. Characterization samples may be used for confirmation samples for deferral/closure. Soil sampling is to begin on Wednesday February 22, 2023.

Please contact me with any questions.

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, September 20, 2022 1:24 PM
To: Andrew Parker <aparker@ameredev.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 144923

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

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- **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 nAPP2226344597, 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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505

Andrew Parker

From: Andrew Parker
Sent: Saturday, September 17, 2022 11:55 AM
To: Enviro, OCD, EMNRD
Cc: Bratcher, Mike, EMNRD; Hansley Persad; Dayeed Khan; Shane McNeely; Laura Parker; Jacob Saenz; Jesus Palomares
Subject: 24hr Major Release Notification Redbud 4S

NMOCD,

Please accept this email as the 24 hour major release notification per 19.15.29 NMAC. A C-141 NOR will be submitted via the online portal within 10-days.

Operator: Ameredev Operating
AEP #: 20220916-2040-water
Location: Redbud 4S production pad
Surface: Private
UL C; Sec. 05; T26S R36E
Lea County
Lat/Long: 32.078926, -103.2902143

Released volume: >25 bbls. The C-141 NOR will include final volumes.

Recovered volume: The C-141 NOR will include final volumes.

Source: Produced water

Cause: Leak at the bottom of Minion Fluid Storage Tank.

Corrective actions: vacuum trucks dispatched to recover fluid and rerouting temporary flowlines to transfer remaining fluid in tank to produced water transfer lines. Earthen containment berms constructed to control release extent.

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



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

~~July 8, 2022~~ 10/12/2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Resubmitted Well Record CP-1922 Pod-1

To whom it may concern:

Attached please find a corrected well log & record and a plugging record that was originally filed on 9/30/2022, corrected is in duplicate, for a one (1) soil borings, CP-1922 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

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

Lucas Middleton

Enclosures: as noted above

OSE DII OCT 12 2022 PM 2:04



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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). CP-1922			
	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 LATITUDE 32	MINUTES 4	SECONDS 38.51	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	17	9.02	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW NW NE Sec.5 T26S R36S 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 9/21/2022		DRILLING ENDED 9/21/2022		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 9/26/2022	
	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"	Boring-HSA	--	--	--	--
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		

USE OF OCT 12 2022 PM 2:04

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	14	14	Sand, fine-grained, poorly graded, Tan Brown	Y ✓ N	
	14	80	66	Sand, fine-grained, poorly graded, poorly consolidated, Tan Brown	Y ✓ N	
	80	101	21	Sand, fine-grained, poorly graded, with Caliche , Tan Brown	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: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 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: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. DTW-16 <div style="text-align: right; color: purple; font-family: cursive;">DSE DIT OCT 12 2022 PM2:04</div>
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Jackie D. Atkins </div> <div style="text-align: right;">10/4/2022</div> </div>	



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: CP-1922

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: 7/26/2022 Date well plugging concluded: 7/26/2022

5) GPS Well Location: Latitude: 32 deg, 4 min, 38.51 sec
Longitude: 103 deg, 17 min, 9.02 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: 9/12/2022

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):

DSE DJT OCT 12 2022 PM2:04

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-101'	Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

USE DT OCT 12 2022 PM2:04

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

10/4/2022

Date






6_CP-1922_WellLog-packet-forsign-DTW-16

Final Audit Report

2022-10-04

Created:	2022-10-04
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAzK7AaPUzEPE-3Y1tAUQrH1EtAYsYz3H5

"6_CP-1922_WellLog-packet-forsign-DTW-16" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2022-10-04 - 2:26:57 PM GMT - IP address: 64.17.71.25
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-10-04 - 2:27:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2022-10-04 - 2:58:39 PM GMT - IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-10-04 - 3:00:40 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2022-10-04 - 3:00:40 PM GMT

OSE DT OCT 12 2022 PM 2:04



Adobe Acrobat Sign

Appendix C

Certificates of Analysis



Ameredev II, LLC



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

February 27, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD 4S

Enclosed are the results of analyses for samples received by the laboratory on 02/23/23 9:03.

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.

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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 01 0-2 FT (H230843-01)

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	02/23/2023	ND	2.06	103	2.00	0.800	QR-03
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	QM-07, QR-03
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	QM-07, QR-03
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 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	64.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 02 0-2 FT (H230843-02)

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	02/23/2023	ND	2.06	103	2.00	0.800		
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87		
Total BTEx	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	176	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 03 0-2 FT (H230843-03)

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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	96.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 04 0-2 FT (H230843-04)

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	02/23/2023	ND	2.06	103	2.00	0.800		
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87		
Total BTEX	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78		
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97		
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 05 0-2 FT (H230843-05)

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	02/23/2023	ND	2.06	103	2.00	0.800		
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87		
Total BTEX	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	80.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 06 0-2 FT (H230843-06)

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	02/23/2023	ND	2.06	103	2.00	0.800		
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87		
Total BTEX	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 07 0-2 FT (H230843-07)

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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 08 0-2 FT (H230843-08)

BTX 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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 09 0-2 FT (H230843-09)

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	02/23/2023	ND	2.06	103	2.00	0.800		
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87		
Total BTEX	<0.300	0.300	02/23/2023	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	16.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 10 0-2 FT (H230843-10)

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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTEX	<0.300	0.300	02/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 11 0-2 FT (H230843-11)

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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 12 0-2 FT (H230843-12)

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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 13 0-2 FT (H230843-13)

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	02/23/2023	ND	2.06	103	2.00	0.800	
Toluene*	<0.050	0.050	02/23/2023	ND	2.11	105	2.00	0.426	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.06	103	2.00	0.304	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.32	105	6.00	1.87	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 14 0-2 FT (H230843-14)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 15 0-2 FT (H230843-15)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/23/2023	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	02/23/2023	ND	198	99.2	200	3.78		
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	195	97.3	200	1.97		
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND						

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 16 0-2 FT (H230843-16)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17 0-2 FT (H230843-17)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 18 0-2 FT (H230843-18)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 18 2-4 FT (H230843-19)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 19 0-2 FT (H230843-20)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 20 0-2 FT (H230843-21)

BTX 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	02/23/2023	ND	2.03	102	2.00	8.14	
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0	
Total BTX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 20 2-4 FT (H230843-22)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 20 4.5 FT (H230843-23)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Analytical Results For:

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

Received:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 21 0-2 FT (H230843-24)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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: 02/23/2023
 Reported: 02/27/2023
 Project Name: REDBUD 4S
 Project Number: 20220916-2040-WATER
 Project Location: NOT GIVEN

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 21 2-4 FT (H230843-25)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 21 4.5 FT (H230843-26)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1480	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Analytical Results For:

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

Received:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 22 0-2 FT (H230843-27)

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	02/23/2023	ND	2.03	102	2.00	8.14	
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0	
Total BTEX	<0.300	0.300	02/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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: 02/23/2023
Reported: 02/27/2023
Project Name: REDBUD 4S
Project Number: 20220916-2040-WATER
Project Location: NOT GIVEN

Sampling Date: 02/22/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: GS - 22 2-4 FT (H230843-28)

BTX 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	02/23/2023	ND	2.03	102	2.00	8.14	
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0	
Total BTX	<0.300	0.300	02/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 22 4.5 FT (H230843-29)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 23 0-2 FT (H230843-30)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	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	32.0	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 24 0-2 FT (H230843-31)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEX	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	160	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 24 2-4 FT (H230843-32)

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	02/23/2023	ND	2.03	102	2.00	8.14		
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0		
Total BTEx	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2000	16.0	02/23/2023	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	02/23/2023	ND	196	98.2	200	4.23	
DRO >C10-C28*	<10.0	10.0	02/23/2023	ND	173	86.4	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 24 4.5 FT (H230843-33)

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	02/23/2023	ND	2.03	102	2.00	8.14	
Toluene*	<0.050	0.050	02/23/2023	ND	2.08	104	2.00	11.8	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.02	101	2.00	10.7	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.14	102	6.00	11.0	
Total BTEx	<0.300	0.300	02/23/2023	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	1100	16.0	02/23/2023	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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: 02/23/2023
 Reported: 02/27/2023
 Project Name: REDBUD 4S
 Project Number: 20220916-2040-WATER
 Project Location: NOT GIVEN

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 25 0-2 FT (H230843-34)

BTX 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	02/24/2023	ND	2.08	104	2.00	1.39		
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52		
Total BTX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	336	16.0	02/23/2023	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	02/23/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 25 2-4 FT (H230843-35)

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	02/24/2023	ND	2.08	104	2.00	1.39		
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52		
Total BTEX	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/23/2023	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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: 02/23/2023
 Reported: 02/27/2023
 Project Name: REDBUD 4S
 Project Number: 20220916-2040-WATER
 Project Location: NOT GIVEN

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 26 0-2 FT (H230843-36)

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	02/24/2023	ND	2.08	104	2.00	1.39		
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52		
Total BTEX	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/23/2023	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Analytical Results For:

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

Received: 02/23/2023
Reported: 02/27/2023
Project Name: REDBUD 4S
Project Number: 20220916-2040-WATER
Project Location: NOT GIVEN

Sampling Date: 02/22/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: GS - 27 0-2 FT (H230843-37)

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	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	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	96.0	16.0	02/23/2023	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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", is written over a horizontal line.

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: Amerceder										BILL TO										ANALYSIS REQUEST									
Project Manager: Andrew Parker										P.O. #: 20220916-2040-water																			
Address: On File										Company: Amerceder																			
City:										Attn: aparker@amerceder.com																			
State:										Address:																			
Phone #:										City:																			
Project #:										State:																			
Project Name: 20220916-2040-water										Zip:																			
Project Location: Redbud 45										Phone #:																			
Sampler Name: Jesus Palomares										Fax #:																			
FOR LAB USE ONLY																													
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									
1 GS-01 0-2ft										✓										02-22 08:07									
2 GS-02 0-2ft										✓										08:21									
3 GS-03 0-2ft										✓										08:31									
4 GS-04 0-2ft										✓										08:40									
5 GS-05 0-2ft										✓										08:47									
6 GS-06 0-2ft										✓										08:54									
7 GS-07 0-2ft										✓										09:02									
8 GS-08 0-2ft										✓										09:17									
9 GS-09 0-2ft										✓										09:30									
10 GS-10 0-2ft										✓										09:37									

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Relinquished By:										Date: 02-23-2023										Received By:									
Time:										Date: 02-23-2023										Received By:									
Relinquished By:										Time:										Received By:									
Observed Temp. °C										SAMPLE CONDITION										CHECKED BY:									
Delivered By: (Circle One)										Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										(Initials)									
Corrected Temp. °C										Yes <input type="checkbox"/> No <input type="checkbox"/>										V.P.									
Turnaround Time:										Thermometer ID #113										Standard									
Sampler - UPS - Bus - Other:										Correction Factor -0.5°C										Rush <input type="checkbox"/>									
REMARKS:										Add'l Phone #:										Bacteria (only)									
Cooler Temp Blasts 0.2°																				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>									
																				Observed Temp. °C									
																				Corrected Temp. °C									

Cardinal Labs, Inc. 10000 N. 35th Ave., Suite 100, Scottsdale, AZ 85258
 Tel: 480-345-1100 Fax: 480-345-1101 Email: info@cardinallabsnm.com Website: www.cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerceder Project Manager: Andrew Parker Address: On File City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: 20220916-2040-water Project Location: Redbud 45 Sampler Name: Jesus Palomares FOR LAB USE ONLY				BILL TO P.O. #: 20220916-2040-water Company: Amerceder Attn: aparker@amerceder.com Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST			
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP. <input checked="" type="checkbox"/> # CONTAINERS		MATRIX GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/>		PRESERV. <input checked="" type="checkbox"/>		SAMPLING			
Date: 02-23-2023 Received By: [Signature]		Date: 02-22 TIME: 09:48		DATE: 02-22 TIME: 09:57		DATE: 02-22 TIME: 10:17		DATE: 02-22 TIME: 10:32			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerceder Project Manager: Andrew Parler Address: 02-File City: State: Zip: Phone #: Fax #: Project #: Project Name: 20220916-2040-water Project Location: Redbud 45 Sample Name: Jesus Palomares				P.O. #: 20220916-2040-water Company: Amerceder Attn: a.parler@amerceder.com Address: City: State: Zip: Phone #: Fax #:				BILL TO		ANALYSIS REQUEST	
FOR LAB USE ONLY											
Lab I.D. Sample I.D.		Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		Preserv <input checked="" type="checkbox"/>		Sampling					
(G)RAB OR (C)OMP. # CONTAINERS DATE TIME		11:51 12:07 12:21 12:37 12:51 13:09 13:17 13:24 13:40		Chloride TPH (GRO+DRO+MRO) BTEX (Benzene)							
21 0-2ft 22 2-4ft 23 4.5ft 24 0-2ft 25 2-4ft 26 4.5ft 27 0-2ft 28 2-4ft 29 4.5ft 30 6-2ft		11:51 12:07 12:21 12:37 12:51 13:09 13:17 13:24 13:40									
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Relinquished By: Date: 08-23-2023 Time: 0903				Received By: Date: 08-23-2023 Time: 0903				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:			
Relinquished By: Date: 08-23-2023 Time:				Received By: Date: 08-23-2023 Time:				REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C Corrected Temp. °C				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked BY: (Initials)			
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C							



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerder</u>		BILL TO		P.O. #: <u>20220916-2040-water</u>		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parler</u>		Company: <u>Amerder</u>		Company: <u>Amerder</u>			
Address: <u>On File</u>		Attn: <u>aparker@amerder.com</u>		Address:			
City:		State:		Zip:			
Phone #:		Fax #:		City:			
Project #:		Project Owner:		State:			
Project Name: <u>20220916-2040-water</u>		State:		Zip:			
Project Location: <u>Redbud 45</u>		Phone #:		Phone #:			
Sample Name: <u>Jesus Valenzuela</u>		Fax #:		Fax #:			

FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING			
Lab I.D.		Sample I.D.				GROUNDWATER		WASTEWATER		SOIL		OIL	
						SLUDGE		OTHER :		ACID/BASE:		ICE / COOL	
						OTHER :		DATE		TIME			
<u>H230843</u>		<u>GS-24</u>		<u>0-2ft</u>		<u>1</u>		<u>02-22</u>		<u>13:57</u>		<u>Chloride</u>	
<u>31</u>		<u>GS-24</u>		<u>2-4ft</u>		<u>1</u>		<u>14:09</u>		<u>14:34</u>		<u>TPH (GRO + DRD + MRO)</u>	
<u>32</u>		<u>GS-24</u>		<u>4.5ft</u>		<u>1</u>		<u>14:41</u>		<u>15:01</u>		<u>BTEX (Benzene)</u>	
<u>33</u>		<u>GS-24</u>		<u>0-2ft</u>		<u>1</u>		<u>14:53</u>		<u>15:13</u>			
<u>34</u>		<u>GS-25</u>		<u>0-2ft</u>		<u>1</u>							
<u>35</u>		<u>GS-25</u>		<u>2-4ft</u>		<u>1</u>							
<u>36</u>		<u>GS-26</u>		<u>0-2ft</u>		<u>1</u>							
<u>37</u>		<u>GS-27</u>		<u>0-2ft</u>		<u>1</u>							

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Relinquished By: <u>[Signature]</u>	Date: <u>02-23-2023</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Time: <u>0903</u>	Date: <u>02-23-2023</u>	Received By: <u>[Signature]</u>	All Results are emailed. Please provide Email address: _____	
Time: _____	Date: _____	Received By: _____	REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____	Observed Temp. °C <u>-94</u>	Corrected Temp. °C <u>-10.0</u>	Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u> (Initials)
Turnaround Time: _____	Thermometer ID #113	Correction Factor -0.6°C	Standard <u>Rush</u>	Bacteria (only) <input checked="" type="checkbox"/> Sample Condition <input checked="" type="checkbox"/>
			Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/>	Corrected Temp. °C <input type="checkbox"/>

FORM 006 R 3.3 07/10/22

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



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

March 16, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD 4S

Enclosed are the results of analyses for samples received by the laboratory on 03/13/23 16:15.

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.

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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 28 0-2FT (H231142-01)

BTX 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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2023	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	03/14/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/14/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/14/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 101 0-2FT (H231142-02)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 103 0-2FT (H231142-03)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 104 0-2FT (H231142-04)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 105 0-2FT (H231142-05)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 106 0-2FT (H231142-06)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 107 0-2FT (H231142-07)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 108 0-2FT (H231142-08)

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	03/15/2023	ND	1.79	89.4	2.00	14.0		
Toluene*	<0.050	0.050	03/15/2023	ND	1.79	89.3	2.00	12.6		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	1.78	89.0	2.00	12.3		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	5.33	88.9	6.00	11.2		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 109 0-2FT (H231142-09)

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 111 0-2FT (H231142-10)

BTX 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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTX	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 112 0-2FT (H231142-11)

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	03/15/2023	ND	2.19	109	2.00	4.48		
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70		
Total BTEX	<0.300	0.300	03/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	REDBUD 4S	Sampling Condition:	Cool & Intact
Project Number:	20220916-2040-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 113 0-2FT (H231142-12)

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEx	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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: 03/13/2023
 Reported: 03/16/2023
 Project Name: REDBUD 4S
 Project Number: 20220916-2040-WATER
 Project Location: NOT GIVEN

Sampling Date: 03/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 114 0-2FT (H231142-13)

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/15/2023	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	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerdel</u>		P.O. #: <u>20220916-2040-water</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		Company: <u>Amerdel</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
Address: <u>On-File</u>		Attn: <u>aparker@amerdel.com</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
City: <u>Albuquerque, NM</u>		Address: <u>On-File</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
Phone #: <u>505-241-1111</u>		Fax #: <u>505-241-1111</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
Project #: <u>20220916-2040-water</u>		Project Owner: <u>Redbud 45</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
Project Location: <u>Redbud 45</u>		Phone #: <u>505-241-1111</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
Sampler Name: <u>Jesus Palomares</u>		Fax #: <u>505-241-1111</u>		City: <u>Albuquerque, NM</u>		State: <u>NM</u> Zip: <u>87101</u>	
FOR LAB USE ONLY		PRESERV		SAMPLING			
Lab I.D. <u>H231142</u>		Sample I.D. <u>0-2ft</u>		DATE <u>03-13</u>		TIME <u>9:17</u>	
1 <u>CS-28</u>		0-2ft		9:17		Chloride	
2 <u>CS-101</u>		0-2ft		9:52		TPH (GRO+DRO+MRO)	
3 <u>CS-103</u>		0-2ft		10:03		BTEX (Benzene)	
4 <u>CS-104</u>		0-2ft		10:20			
5 <u>CS-105</u>		0-2ft		10:28			
6 <u>CS-106</u>		0-2ft		10:51			
7 <u>CS-107</u>		0-2ft		10:59			
8 <u>CS-108</u>		0-2ft		11:27			
9 <u>CS-109</u>		0-2ft		11:51			
10 <u>CS-111</u>		0-2ft					
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Relinquished By: <u>Jesus Palomares</u>		Date: <u>3-13-23</u>		Received By: <u>Jesus Palomares</u>		Date: <u>3-13-23</u>	
Time: <u>10:15</u>		Time: <u>10:15</u>		Time: <u>10:15</u>		Time: <u>10:15</u>	
Relinquished By: <u>Jesus Palomares</u>		Date: <u>3-13-23</u>		Received By: <u>Jesus Palomares</u>		Date: <u>3-13-23</u>	
Time: <u>10:15</u>		Time: <u>10:15</u>		Time: <u>10:15</u>		Time: <u>10:15</u>	
Delivered By: (Circle One) <u>UPS</u>		Observed Temp. °C <u>2.8</u>		Sample Condition <u>Cool</u>		CHECKED BY: <u>JP</u>	
Corrected Temp. °C <u>2.2</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID #113	
Sampler - UPS - Bus - Other: <u>UPS</u>		Corrected Temp. °C <u>2.2</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Turnaround Time: <u>2.1</u>		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) <input checked="" type="checkbox"/>		Sample Condition <u>Cool</u>	
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Observed Temp. °C <u>2.8</u>	
Corrected Temp. °C <u>2.2</u>		Corrected Temp. °C <u>2.2</u>		Corrected Temp. °C <u>2.2</u>		Corrected Temp. °C <u>2.2</u>	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amereder Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Name: 20220916-2040-water Project Location: Redbud 45 Sampler Name: Jesus Palomares										BILL TO P.O. #: 20220916-2040-water Company: Amereder Attn: aparker@amereder.com Address: City: State: Zip: Phone #: Fax #:										ANALYSIS REQUEST									
FOR LAB USE ONLY										LAB I.D.										SAMPLE I.D.									
H231/42 11 GS-11a 0-2ft 12 GS-11b 0-2ft 13 GS-11c 0-2ft										(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME										MATRIX PRESERV SAMPLING									
3-13-23 14:15 Date: 3-13-23 Time: 14:15 Received By: [Signature]										2.8 2.8 Observed Temp. °C Corrected Temp. °C Sample Condition Cool Intact Yes Yes No No CHECKED BY: [Signature]										Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C									
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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 199265

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 199265
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved. Please implement 19.15.29.13 NMAC when completing P&A.	4/26/2023