<u>District I</u> 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

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 136243

QUESTIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	136243
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source		
Please answer all of the questions in this group.		
Site Name	20220813-1610-completions Redbud 8N	
Date Release Discovered	08/13/2022	
Surface Owner	State	

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: Human Error Valve Produced Water Released: 12 BBL Recovered: 0 BBL Lost: 12 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 136243

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Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	136243
	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	No, minor release.	
Reasons why this would be considered a submission for a notification of a major release		
If YES, was immediate notice given to the OCD, by whom	Not answered.	
If YES, was immediate notice given to the OCD, to whom	Not answered.	
If YES, was immediate notice given to the OCD, when	Not answered.	
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.	
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 136243

ACKNOWLEDGMENTS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	136243
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
V	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.
✓	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.
✓	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.
V	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.
V	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 136243

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	136243
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By		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.	8/22/2022

Responsible Party: Ameredev Operating, LLC

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2223437408
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 372224

Contact Name: Shane McNeely		Contact Te	Gelephone: (737) 300-4700		
Contact email: smcneely@ameredev.com		Incident #	(assigned by OCD) nAPP2223437408		
Contact mailing address: 2901 Via Fortuna, Suite 600 Austin, Texas 78746					
			Location	of Release So	ource
Latitude 32.08	Latitude 32.0806346				
Site Name 202	220813-161	0-completions Re	dbud 8N	Site Type	Production Site
Date Release I	Discovered	08/13/2022		API# (if app	plicable)
Unit Letter	Section	Township	Range	Cour	nty
P	32	T25S	R36E	Lea	
Crude Oil	Material	(s) Released (Select all Volume Released	that apply and attacl	d Volume of l	Release c justification for the volumes provided below) Volume Recovered (bbls)
Produced V	Water	Volume Released	d (bbls) 11.	.7 bbls	Volume Recovered (bbls) none
		Is the concentration produced water >		chloride in the	⊠ Yes □ No
Condensate	e	Volume Released			Volume Recovered (bbls)
Natural Ga	ıs	Volume Released	d (Mcf)		Volume Recovered (Mcf)
Other (desc	cribe)	Volume/Weight	Released (provid	le units)	Volume/Weight Recovered (provide units)
Cause of Relea	ase: Pipe fl	ange left open.			

Received by OCD: 10/19/2022 2:07:40 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	nAPP2223437408
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Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by		
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
· · ·		
The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment
	•	
		likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
		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 info	rmation 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 noti	fications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	a C-141 report does not reneve the operator or	responsibility for compitance with any other rederal, state, or local laws
Printed Name:Andrew	Parker	Title: _Env. Scientist
Signature:	Laker	Date: _08/22/2022
Signature	N 03/107	Date08/22/2022
email: <u>aparker@amere</u>	dev.com	Telephone: <u>970-570-9535</u>
OCD Only		
Pagaiyad byy Jocelyr	n Harimon	Date: 10/19/2022
Received by:Jocelyr		Date:10/19/2022

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	1884.40
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]	66.0
Catput		[gal]	493.4
		Barrels	11.7

From	GIS
Sq. Ft	2692
Depth (ft)	0.7
Cu. Ft	1884.4

	Page 8 of 11.	3
Incident ID	nAPP2223437408	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

t his information must be provided to the appropriate district office no taler than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release? Plate 2	>100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Plate 4	☐ Yes ⊠ 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)? Plate 4	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? Plate 5	☐ Yes ⊠ 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? Plate 3	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Plate 3	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Plate 3	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland? Plate 6	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine? Plate 7	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology? Plate 8	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain? Plate 9	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ 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.		

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.

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	Page 9 of 1.	13
Incident ID	nAPP2223437408	
District RP		
Facility ID		
Application ID		

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: Env. Scientist	
Signature: Manufacture	Date:October 19, 2022	
email: <u>aparker@ameredev.com</u>	Telephone: 970-570-9535	
OCD Only		
Received by: Jocelyn Harimon	Date:10/19/2022	

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Incident ID	nAPP2223437408
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e 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 con	firmed as part of any request for deferral of remediation.						
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility						
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 Parker	Title: Env. Scientist						
Signature: Marion	Date:October 19, 2022						
email:aparker@ameredev.com	Telephone: 970-570-9535						
OCD Only							
Received by:Jocelyn Harimon	Date:10/19/2022						
☐ Approved ☐ Approved with Attached Conditions of	Approval						
Signature:	Date:						

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Incident ID	nAPP2223437408
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 its	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially editions that existed prior to the release or their final land use in
OCD Only Received by: Jocelyn Harimon	Date:10/19/2022
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Jennifer Nobui	Date:11/17/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A



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

October 19, 2022

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

RE: Closure Report

Incident ID: nAPP2223437408

Redbud 8N

AEP #: 20220813-1610-completions

NMOCD:

Ameredev Operating submits this closure report for the above referenced incident. We ask for closure of the regulatory file.

Ameredev Operating submits this report containing characterization data and remediation/restoration activities for incident number nAPP2223437408. The release occurred on August 13, 2022 from a pipe flange. The calculated volume of released produced water was 11.7 barrels.

The release occurred on an active production site and flowed onto a pipeline and utility right-of-way (ROW) for oil and gas operations and pastureland. The release is located on State surface. The coordinates of the release point are 32.0806346, -103.282563 (Lat, Long; NAD83). The release did not impact surface or groundwater. Figure 1 shows the source of the release; Figures 2 and 3 show the extent of the release. Communications are in Appendix A.

Figure 1: Photo of source facing northeast from the southwestern extent.

Date Taken: 2022-08-14 11:18:27 GPS: 32.0801889, -103.2824408



Incident ID: nAPP2223437408 Redbud 8N AEP #: 20220813-1610-completions



Figure 2: Photo of western extent of the release facing southeast. Date Taken: 2022-08-14 11:19:14. GPS: 32.0807172, -103.2825719



Figure 3: Photo of the eastern extent of the release facing west. Date Taken: 2022-08-14 11:20:31. GPS: 32.0806497, -103.2820744

Incident ID: nAPP2223437408 Redbud 8N

AEP #: 20220813-1610-completions

1. Characterization

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

1.1. Site Map

Horizontal extent of the release was determined by visual observations. The release extent mapping utilized GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the Redbud 8N production facilities, ROW and nearby utilities. The source of the release is located at 32.0806346, -103.282563 (Lat, Long; NAD83). The release extent covered an area of approximately 2692 sq. ft.

1.2. Depth to Ground Water

To determine depth-to-water within ½-mile of the release extent, Ameredev Operating began a depth-to-water borehole program mid-September 2022. The depth-to-water program:

- Boreholes will be located throughout Ameredev Operating leases in New Mexico.
- Located within ½-mile of identified areas, and
- Drilled to a depth of approximately 101-feet below ground surface, left open for 72-hours, then gauged for the presence of groundwater within the upper 100-feet of ground surface.

The water well and depth to water borehole nearest to the release area are mapped on Plate 2. The Well Logs are presented in Appendix B:

- 1. MISC-405 (CP-0057 POD 1) is located 0.26-miles to the southeast. The top of the water bearing strata is noted as 300-feet.
- 2. MISC-410 (CP-1922 POD 1) is located 0.35-miles to the southwest. Depth to water is >101 ft.

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.
- Within ½-mile private and domestic water sources (wells and springs). The water source is a well used for stock water purposes. A windmill noted on topographic map is 0.37 miles east of release was visually inspected and is no longer in use or operational.
- 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.



Incident ID: nAPP2223437408 Redbud 8N

AEP #: 20220813-1610-completions

1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is:

- Within ½ mile of a significant water course.
- 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).

The closest significant water course is an intermittent stream 0.42 miles to the east of the release extent.

1.5. Soil/Waste Characteristics

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

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 and Dune land lithology as

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

The lithology as described by the NRCS is consistent with professional observations during excavation activities within the area of interest.

2. Remediation & Restoration

Release extent was divided into sample grids of not more than 200 sq ft. A soil sample was collected from each grid base and along excavation walls for laboratory analysis of chloride, TPH, Benzene, and BTEX.

- Plate 10 shows the confirmation sample grid layout.
- Plate 11 shows the confirmation sample locations.
- Table A shows the coordinates of the confirmation sample points.



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

Incident ID: nAPP2223437408 Redbud 8N AEP #: 20220813-1610-completions

Ameredev excavated within the off-site (ROW) and on site (well pad and production equipment) release extent until the walls and bases met Closure Criteria per Table 1 of 19.15.29 NMAC as defined below. Further vertical delineation was performed in grids G-05, G-09 and G-12 to confirm constituents of concern remained within closure criteria at further depth.

- For the release areas off site along a right-of-way and pastureland and where depth to water is > 100 ft:
 - ➤ Upper 4-feet
 - Chloride < 600 mg/kg
 - TPH (GRO + DRO + MRO) < 100 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
 - ➤ Below 4-feet
 - 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
- 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:
 - \triangleright Chloride < 20,000 mg/kg
 - ightharpoonup TPH (GRO + DRO + MRO) < 2,500 mg/kg
 - > TPH (GRO + DRO) < 1,000 mg/kg
 - ightharpoonup BTEX < 50 mg/kg
 - ➤ Benzene < 10 mg/kg

An estimated 552 cu. yrds. of material was excavated and hauled off-site to an approved disposal facility. Figures 4 & 5 show the excavation extent. Summary of analytical is presented in Table B. Laboratory Certificates of Analysis are presented in Appendix C.



Incident ID: nAPP2223437408 Redbud 8N AEP #: 20220813-1610-completions



Figure 4: Eastern extent facing east from central release area. Date Taken: 2022-10-05 16:03:23 GPS: 32.0807625, -103.2823583



Figure 5: Western extent facing west from central release area Date Taken: 2022-10-05 16:02:11 GPS: 32.0807419, -103.2823572

The portion of the release extent that is off-site and within the ROW was remediated, restored, and reclaimed per 19.15.29.13.D NMAC. The release extent on the active production site was remediated and restored per 19.15.29.C.12.C.(2) and 19.15.29.13.A-C NMAC. Figures 6 & 7.

Incident ID: nAPP2223437408 Redbud 8N

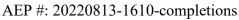
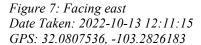




Figure 6: Facing west Date Taken: 2022-10-13 09:16:11 GPS: 32.0807028, -103.2819328





Final remediation and reclamation of the production site shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC when the production site is no longer in-use for oil and gas operations.

Please contact me with any questions.

Sincerely,

Ameredev II, LLC

Adewahar

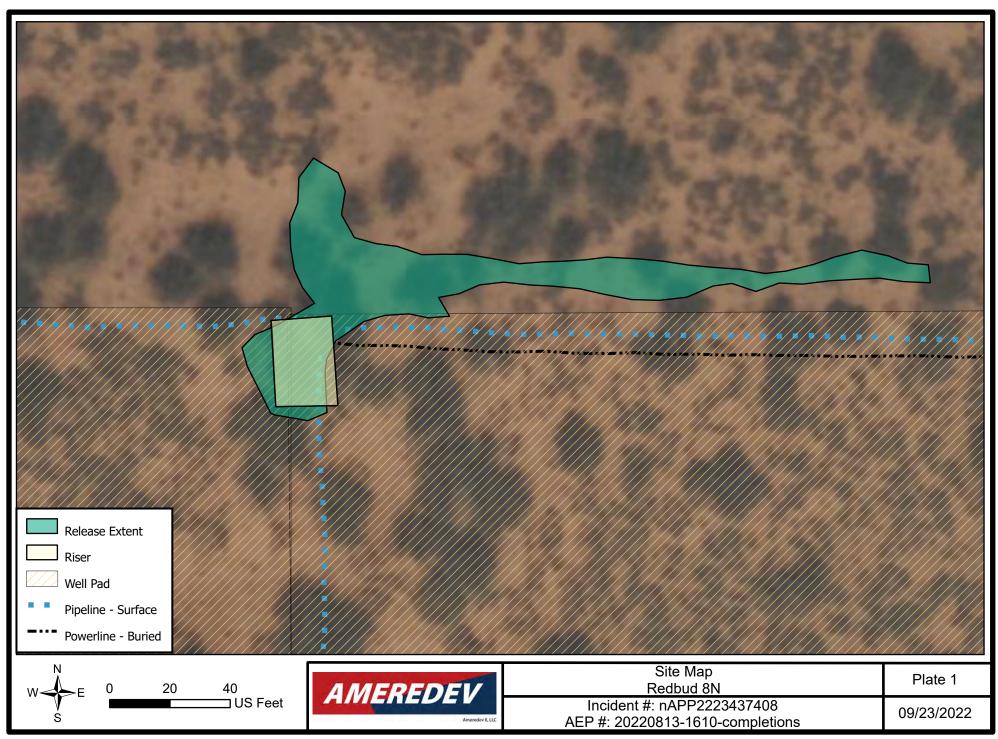
Andrew Parker Env. Scientist

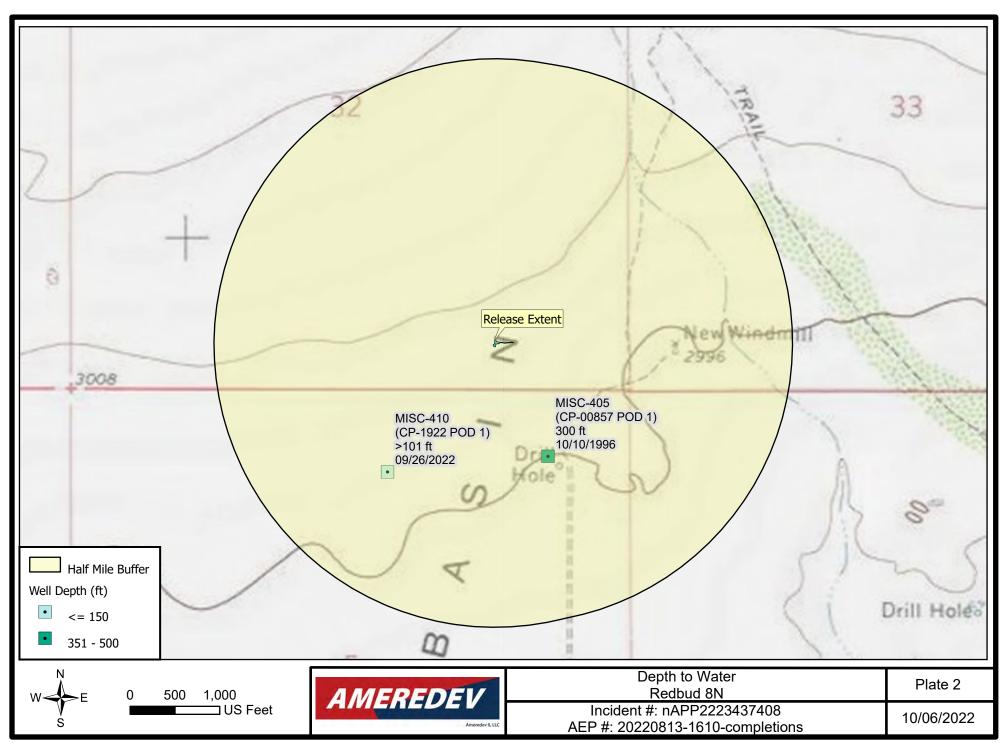
Cc: Dayeed Kahn, Ameredev II, LLC

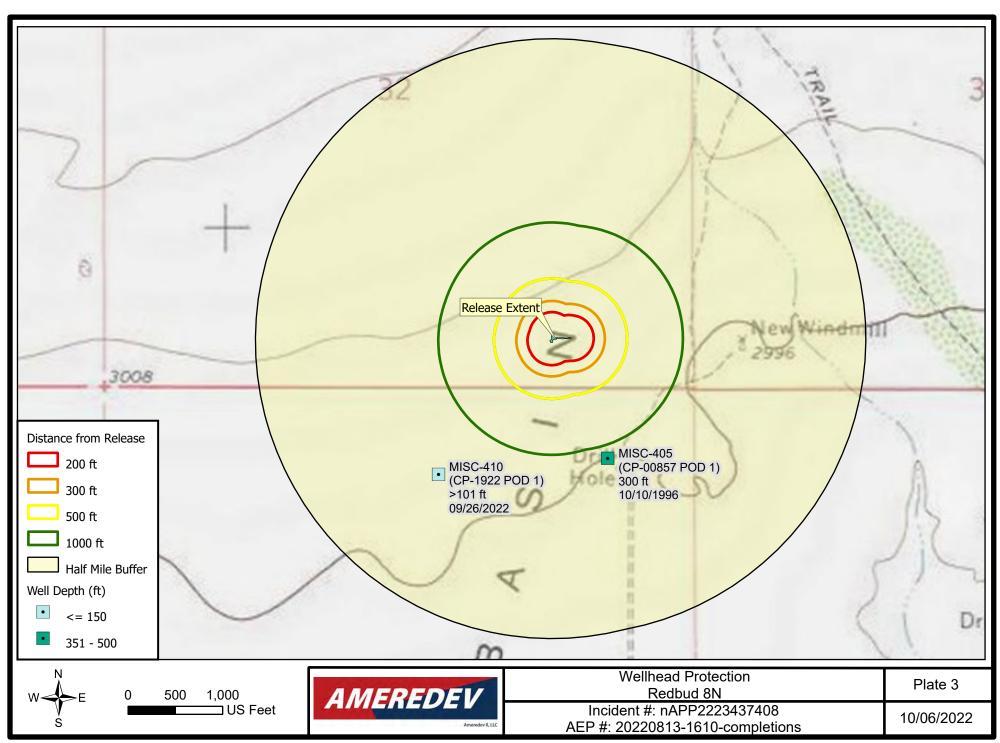


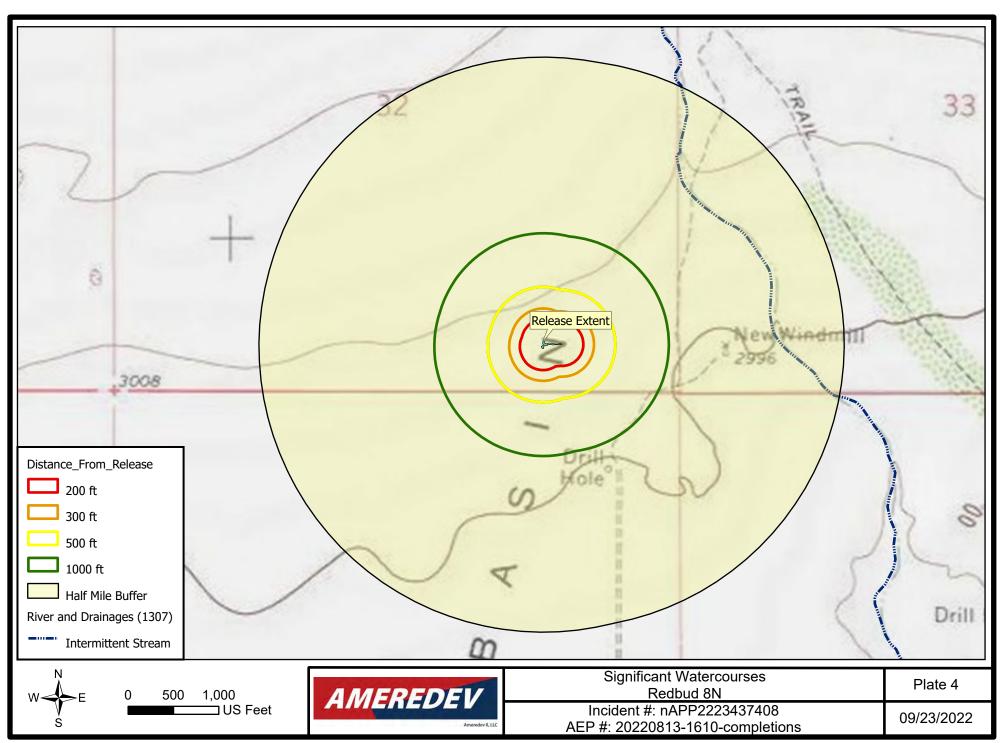
Plates

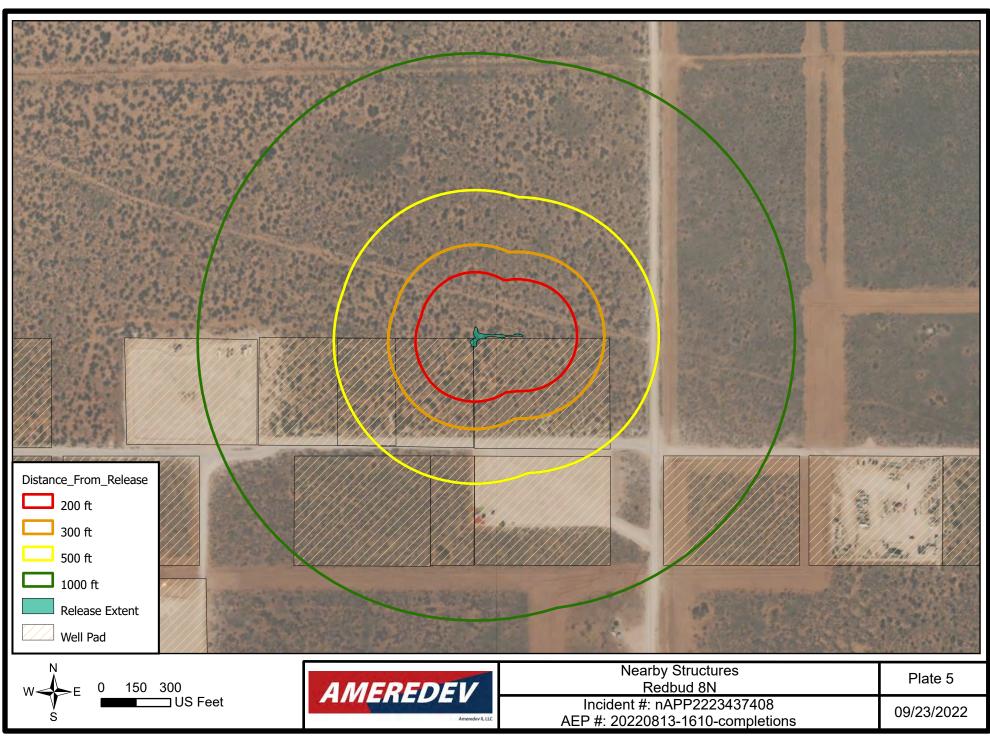


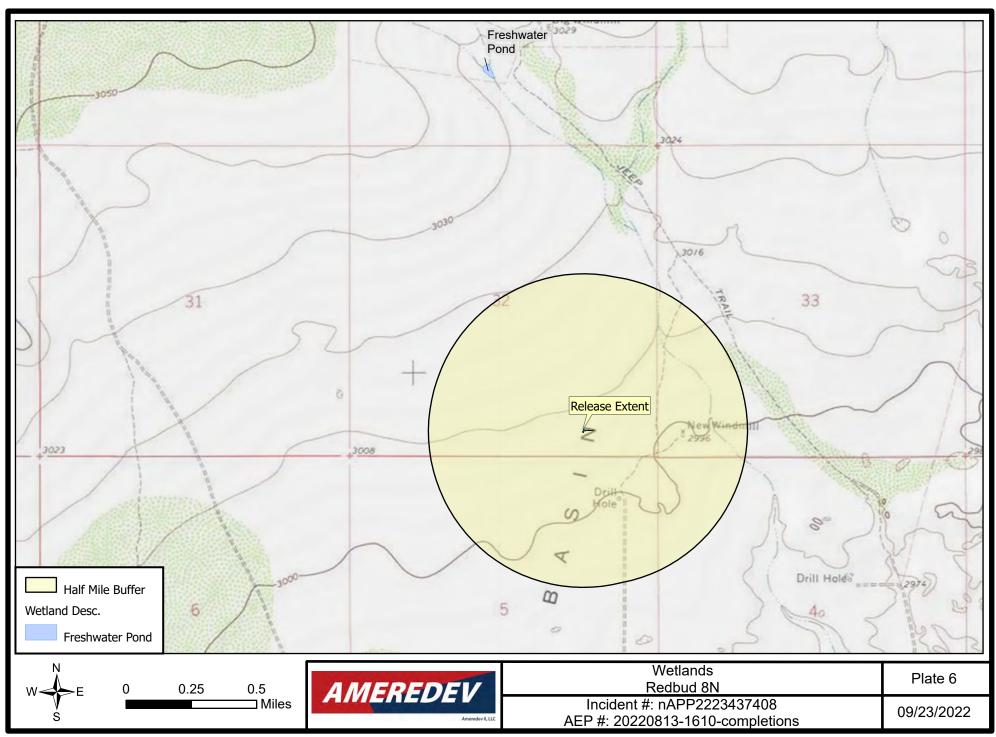


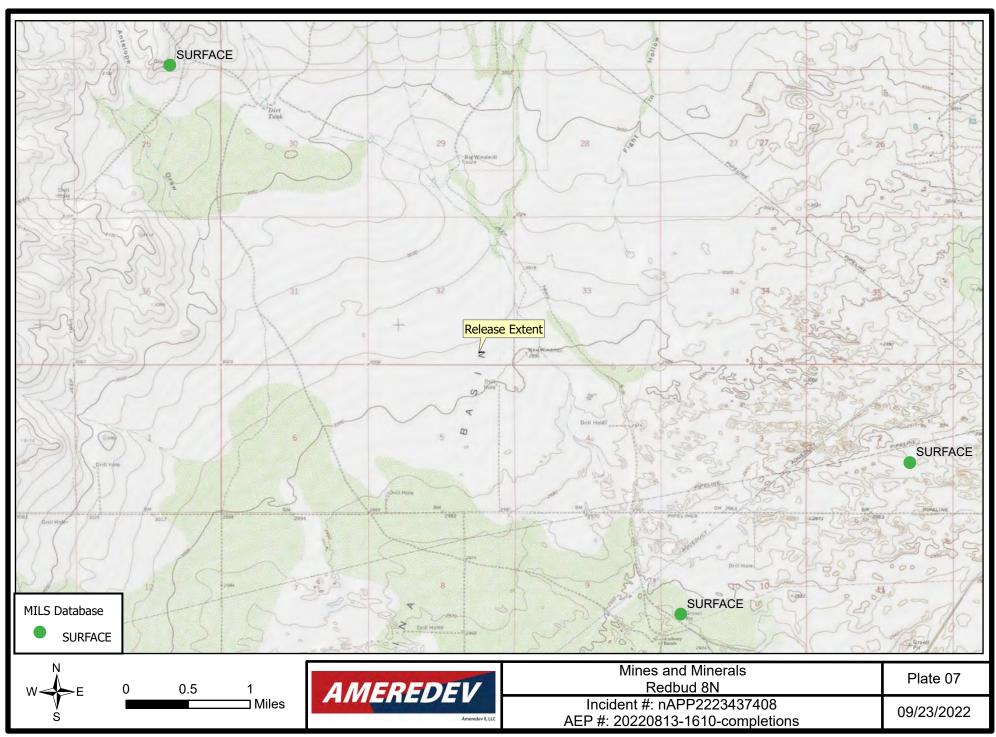


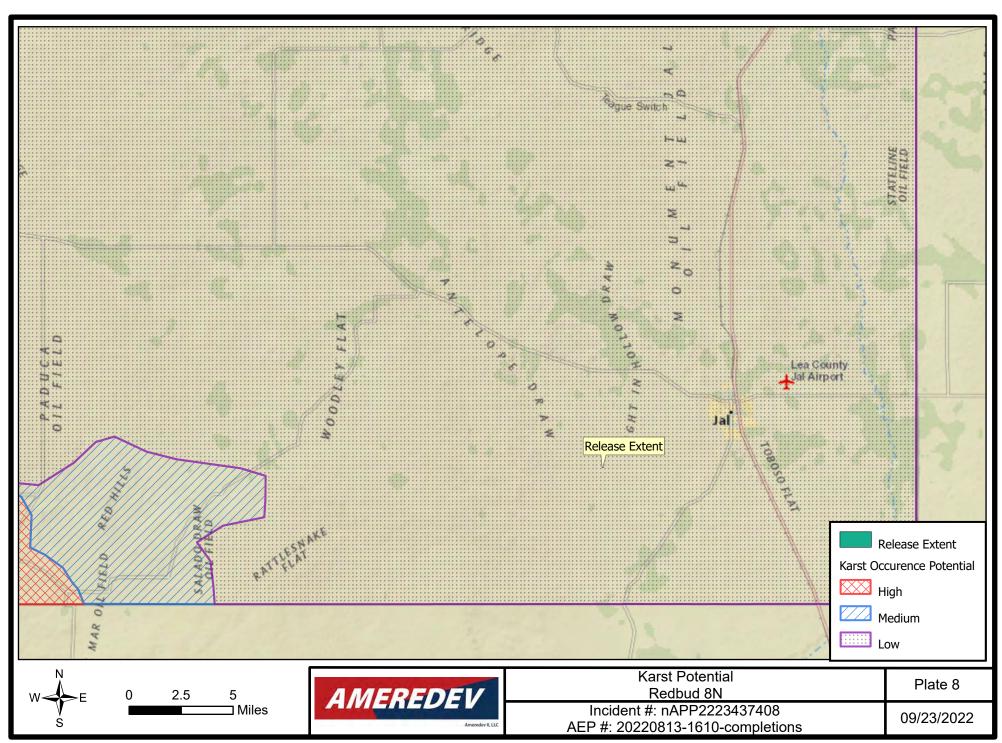


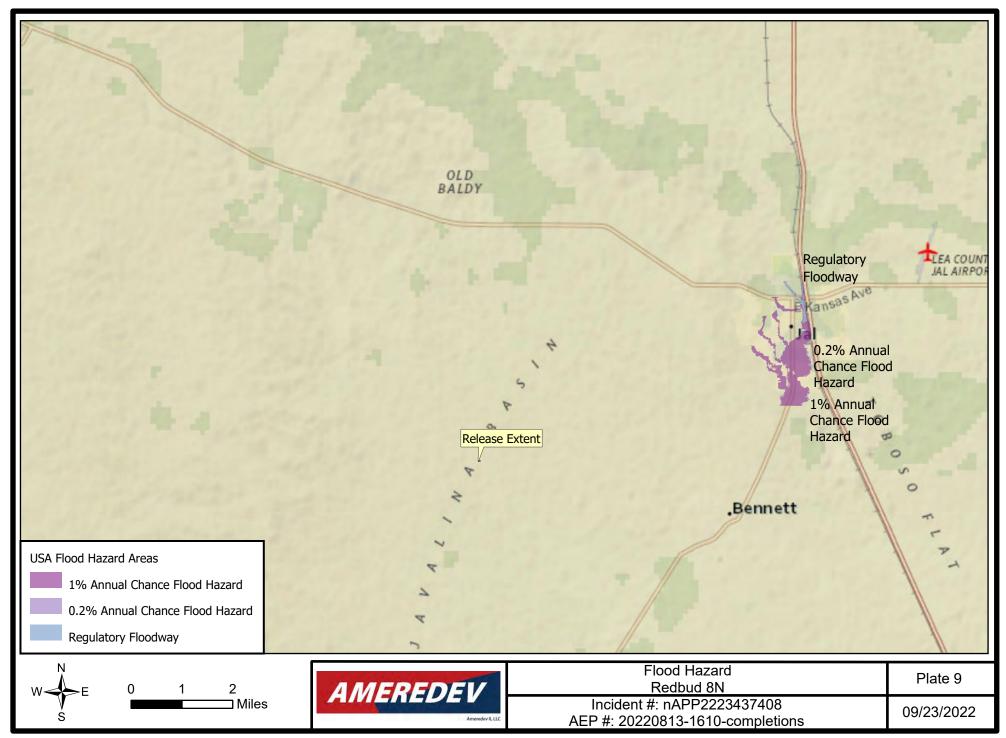


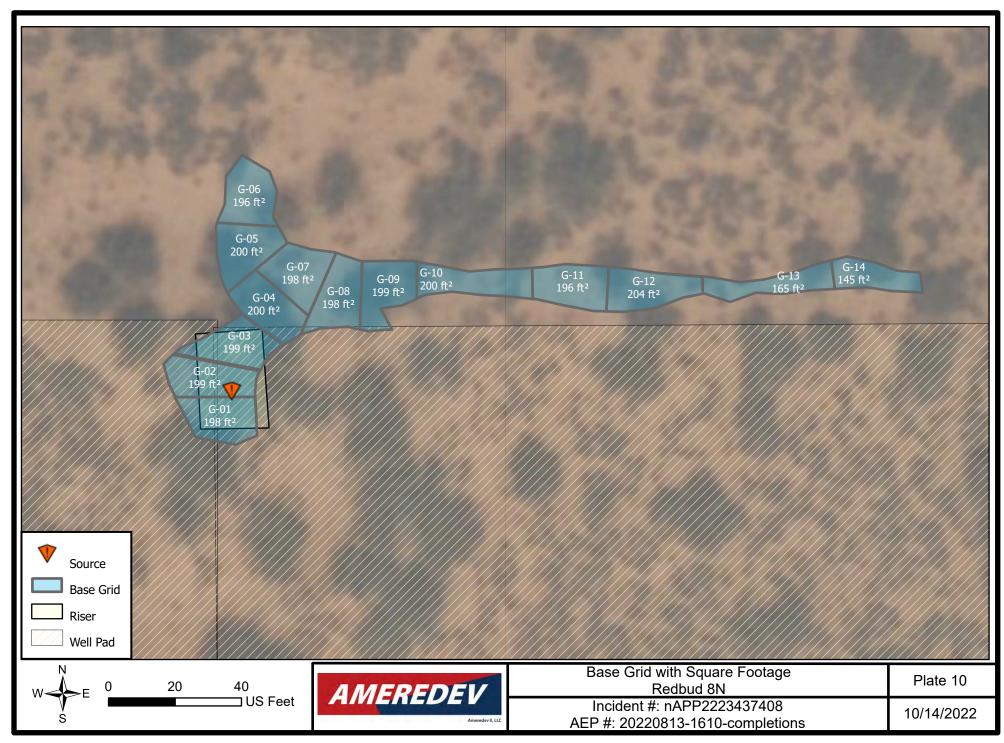


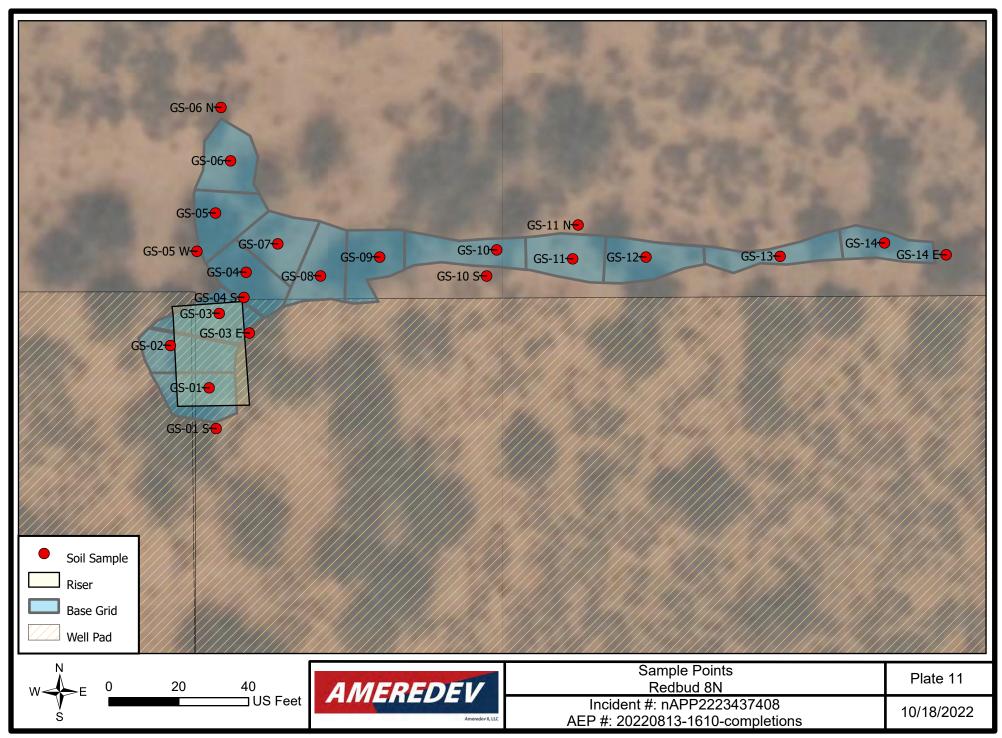












Tables



Incident ID: nAPP2223437498 32 of 113 Redbud 8N

AEP #: 20220813-1610-completions

Sample Points	Latitiude	Longitude			
GS-01	32.08061977	-103.28256383			
GS-01 S	32.08059268	-103.28255833			
GS-02	32.08064789	-103.28259422			
GS-03	32.08066924	-103.28255591			
GS-03 E	32.08065621	-103.28253231			
GS-04	32.08069661	-103.28253485			
GS-04 S	32.08067988	-103.28253653			
GS-05	32.08073600	-103.28255885			
GS-05 W	32.08071055	-103.28257344			
GS-06	32.08077071	-103.28254700			
GS-06 N	32.08080976	-103.28255457			
GS-07	32.08071550	-103.28250997			
GS-08	32.08069417	-103.28247641			
GS-09	32.08070672	-103.28243000			
GS-10	32.08071147	-103.28233813			
GS-10 S	32.08069412	-103.28234607			
GS-11	32.08070553	-103.28227852			
GS-11 N	32.08072807	-103.28227427			
GS-12	32.08070672	-103.28222102			
GS-13	32.08070722	-103.28211571			
GS-14	32.08071614	-103.28203381			
GS-14 E	32.08070823	-103.28198541			

Page 33 of 113

Table B Summary of Analytical

Redbud 8N AEP #: 20220813-1610-completions

Incident ID: nAPP2223437408

Sample ID	Date	Discrete Depth		Bottom Depth	In Use	Chloride					Comments	Lab	Lab #
		(Feet)	(Feet)	(Feet)	(Yes/No)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		(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-01	10/6/2022	2			Pad	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-01 S	10/6/2022	0			Pad	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-02	10/6/2022	0			Pad	352	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-03	10/6/2022	2			Pad	320	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-03 E	10/6/2022	0			Pad	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-04	10/5/2022	4.5			ROW	5920	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS- 04 S	10/5/2022		0	2	Pad	1520	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS- 04 S	10/5/2022		2	4	Pad	2480	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS- 04 S	10/5/2022	4.5			Pad	2280	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-05	10/5/2022	4.5			ROW	5780	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-05	10/5/2022	5.5			ROW	5360	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224694
GS-05	10/5/2022	6.5			ROW	6400	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224694
GS-05 W	10/5/2022		0	2	ROW	240	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-05 W	10/5/2022		2	4	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-06	10/5/2022	4.5			ROW	1800	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-06N	10/5/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-06N	10/5/2022		2	4	ROW	224	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-07	10/5/2022	4.5			ROW	5920	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-08	10/5/2022	4.5			ROW	2520	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-09	10/5/2022	4.5			ROW	6400	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-09	10/5/2022	5.5			ROW	5440	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224694
GS-09	10/5/2022	6.5			ROW	6160	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224694
GS-10	10/5/2022	4.5			ROW	3120	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224711
GS-10 S	10/5/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-10 S	10/5/2022		2	4	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-11	10/5/2022	4.5			ROW	6400	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-11 N	10/5/2022		0	2	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-11 N	10/5/2022		2	4	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-12	10/5/2022	4.5			ROW	6720	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-12	10/5/2022	5.5			ROW	4720	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224694
GS-12	10/5/2022	6.5			ROW	2320	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224694
GS-13	10/5/2022	4.5			ROW	6000	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-14	10/5/2022	4.5			ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-14 E	10/5/2022		0	2	ROW	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
GS-14 E	10/5/2022		2	4	ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224694
Backfill	10/5/2022					16	<20	<30	<0.05	<0.30	Backfill	Cardinal	H224694
Topsoil 01	10/10/2022					16	<20	<30	<0.05	<0.30	Topsoil	Cardinal	H224754

Ameredev Operating

Appendix A

Communications



From: Andrew Parker
To: Enviro, OCD, EMNRD

 Cc:
 Laura Parker; Jesus Palomares; Christopher Turner

 Subject:
 nAPP2223437408 48 hr sampling notice Redbud 8N

 Date:
 Wednesday, September 28, 2022 6:44:13 PM

NMOCD,

Please accept this email as the 48 hour confirmation sampling notice for incident nAPP2223437408. Remediation commences tomorrow (9/29/2022).

Location: Redbud 8N riser

AEP #: 20220813-1610-completions

Thank you,

Andrew Parker Environmental Scientist 970-570-9535



From: Andrew Parker

Sent: Monday, August 22, 2022 10:36 AM

To: spills@slo.state.nm.us; Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us>

Cc: Laura Parker < lparker@ameredev.com>; Dayeed Khan < dkhan@ameredev.com>

Subject: C-141 NOR nAPP2223437408

NMOCD/SLO:

Attached is the C-141 NOR for incident nAPP2223437408 with volume calculation. Please retain for your files.

Location: Redbud 8N Production Site AEP #: 20220813-1610-completions

Regards,

Andrew Parker Environmental Scientist 970-570-9535



From: OCDOnline@state.nm.us < OCDOnline@state.nm.us>

Sent: Monday, August 22, 2022 11:23 AM **To:** Andrew Parker aparker@ameredev.com

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application

ID: 136243

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#) nAPP2223437408.

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 nAPP2223437408, 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: OCDOnline@state.nm.us

Sent: Monday, August 22, 2022 11:23 AM

To: Andrew Parker

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID:

136243

Caution: External (ocdonline@state.nm.us)

Spam Content Details

Report This Email FAQ Protection by INKY

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#) nAPP2223437408, 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 nAPP2223437408, 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

Appendix B

Well Logs





2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

July 8, 2022

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1922 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1922 Pod-1.

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Garan Maddin

OSE DII SEP 30 2022 M10:57



Z	OSE POD NO. (POD-1	WELL NO	1.)	wei n/a	LL TAG ID NO.			OSE FII		S).				
VTIO	WELL OWNER	NAME(S))					PHONE	(OPTIC	ONAL)				
ZOC/	Ameredev O	perating	g, LLC					737-300-4700						
GENERAL AND WELL LOCATION	WELL OWNER 2901 Via Fo							CITY STATE ZIP Austin TX 78746						
2	WELL	7	DE		AINUTES	SECONDS								
WI /	LOCATION (CDE)		TITUDE	32	4	38.51	N			REQUIRED: QUIRED: WGS		TH OF A	A SECOND	
NER	(FROM GPS)	LO	NGITUDE	103	17	9.02	W							
1. GF			NG WELL LOCATION TO 26S R36S NMPM	STREET ADDRESS	AND COMMON	I LANDMARI	CS – PLS	SS (SECTI	ON, TO	WNSHJIP, RA	NGE) WH	ERE AV	/AILABLE	
	LICENSE NO.		NAME OF LICENSED)			COMPANY	
	1249				e D. Atkins								ng Associates, In	nc.
	DRILLING STA 9/21/20		DRILLING ENDED 9/21/2022	temporary	ETED WELL (F well materia			LE DEPTI ±101	I (FT)	DEPTH WA	ATER FIRS		OUNTERED (FT) /a	
Z	COMPLETED	COMPLETED WELL IS: ARTESIAN P DRY HOLE SHALLOW (UNCONFINED)						n		WATER LEVI PLETED WEL		/a	DATE STATIC I	
OIT/	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:													
RM/	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER-SPECIFY:									Auger	CHECK INSTAL	HERE I LED	IF PITLESS ADAF	TER IS
CASING INFORMATION	DEPTH (feet bgl) BORE HOLE			CASING MAT		D/OR	C	ASING CASING			NG	CASING WALL		SLOT
	FROM	то	DIAM (inches)	GRADE (include each casing string, and note sections of screen)			CON	NECTIO TYPE				(inches)		SIZE (inches)
K CA	0	101	±6.25"		ng-HSA		aa voup							
NG.														
2. DRILLING &														
2. DR			+			-				OSE 0	HSEP	302	1022 mil 0:5	8
		-				F	7							
						10								
						-								
												-		
н	DEPTH (f	_	BORE HOLE DIAM. (inches)		NNULAR SI PACK SIZE						OUNT ic feet)		METHO! PLACEM	
3. ANNULAR MATERIAL	FROM	TO					_	_						
(ATI														
ARN	1													
N												-		
AN.	-							-						
40														
FOR	OSE INTERN	AL USF	1						WR-2	0 WELL RI	CORD (& LOC	(Version 01/2	8/2022)
	E NO.				POD NO).		3-2	TRN 1					
LOC	CATION							WELL '	TAGII	D NO			PAGE	1 OF 2

	DEPTH (feet bgl)			INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES							ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE V		TES OR FRA	CTURE ZONE	s	WAT BEAR (YES /	ING?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	14	14		Sand, fine-grained, poorly g	raded, Tan Br	own		Y	√ N	
	14	80	66	Sand, fine-	grained, poorly graded, poo	rly consolidat	ed, Tan Brown		Y	√N	
	80	101	21	Sand, fi	ne-grained, poorly graded,	with Caliche,	Tan Brown		Y	√N	
									Y	N	
								- 17	Y	N	
Ţ									Y	N	
WEL									Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
OG.									Y	N	
ICI									Y	N	
907									Y	N	
EO									Y	N	
ROC									Y	N	
EX.									Y	N	
4.									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING PUMP AIR LIFT BAILER OTH				ARING STRATA:				ESTIM YIELD		0.00
	PUMI	, []A	IKLIFI _	BAILEK [OTHER - SPECIFY:						
NO	WELL TES	TEST STAR	RESULTS - ATT. TT TIME, END TI	ACH A COPY OF ME, AND A TAB	DATA COLLECTED DU LE SHOWING DISCHARO	RING WELL GE AND DRA	TESTING, INC WDOWN OV	CLUDING ER THE	G DISCH TESTIN	IARGE I G PERIC	METHOD, DD.
TEST; RIG SUPERVISION	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 OSE OII SEP 30 2022 MIO:58										
TES	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT	PROVIDED ONSITE SUI	PERVISION C	F WELL CON	STRUCT	TO NOT	HER TH	IAN LICENSEE:
rv.	Shane Eldric	lge, Came	ron Pruitt								
TURE	CORRECT I	RECORD C	F THE ABOVE D	ESCRIBED HOL	HE BEST OF HIS OR HE E AND THAT HE OR SH COMPLETION OF WELL	E WILL FILE	GE AND BEI THIS WELL	JEF, THI RECORD	E FORE	GOING I	S A TRUE AND ATE ENGINEER
. SIGNATURE	Jack A	tkins			Jackie D. Atkins				9/29/	2022	
•		SIGNAT	URE OF DRILLE	R / PRINT SIG	NEE NAME					DATE	
FOI	R OSE INTER	NAL USE					WR-20 WE	LL RECO	ORD & I	LOG (Ve	rsion 01/28/2022)
	E NO.				POD NO.		TRN NO.				
LO	CATION					WEL	L TAG ID NO.				PAGE 2 OF 2



PLUGGING RECORD



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

vell	owner: Ameredev Operating	LLC		_ F	Phone No.: 73	7-300-4700	
1aili	ng address: 2901 Via Fortuna	Suite 600					
ity:	Austin		State:	Texa	as	Zip code:	78746
. V	VELL PLUGGING INFORM	MATION:					
	Name of well drilling com	pany that plugged w	vell: Jackie D.	Atkins (Atk	ins Engineering	Associates Ir	nc.)
)	New Mexico Well Driller	License No.: 1249			Expir	ation Date: 0	4/30/23
)	Well plugging activities was Shane Eldridge, Cameron		e ionowing we	in driner(s)/	rig supervisor(s):	
)	Date well plugging began	7/26/2022	Date	e well plugg	ing concluded:	7/26/2022	
)	GPS Well Location:	Latitude: 32 Longitude: 10	deg, _	4	min, 38.51 min, 9.02	sec	
		Longitude: 10	03deg,	17	min, 9.02	_ sec, WGS 8	84
)	Depth of well confirmed a by the following manner:	t initiation of pluggi water level probe	ng as:101	ft below	w ground level	(bgl),	
)	Static water level measure	d at initiation of plu	gging: n/a	ft bgl			
)	Date well plugging plan o	f operations was app	roved by the S	tate Engine	er: 9/12/2022	2	
							1
)	Were all plugging activition differences between the appropriate the appropriate the appropriate that the second s	es consistent with an oproved plugging pla	approved plug an and the well	ging plan? as it was pl	ugged (attach a	If not, p dditional page	
-		1 1 55 51					
					USEC	III SEP 30 20)ZZ 9M1();5

Version: September 8, 2009

Page 1 of 2

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:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("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	
_				OSE OJI (SEP 30 2022 m10:58
-					
-					
		MULTIPLY cubic feet x 7.4 cubic yards x 201.3	BY AND OBTAIN 4805 = gallons 97 = gallons		

III. SIGNATURE:

I, Jackle D. Atkins I, and familiar with the rule Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugare true to the best of my knowledge and belief.	
Jack Atkins	9/29/2022

Signature of Well Driller

Version: September 8, 2009 Page 2 of 2

Date

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

Final Audit Report 2022-09-2

Created: 2022-09-29

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAAPQJeAO8oO_Plnuci8MR060bacCzdSRFN

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

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-09-29 9:20:49 PM GMT- IP address: 64.17.71.25
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-09-29 9:21:48 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-09-29 9:24:30 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2022-09-29 9:24:54 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2022-09-29 - 9:24:54 PM GMT

OSE DII SEP 30 2022 AM10:58





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

NA

CP 00857 POD1

1 2 2 05 26S 36E

662244 3550380

Driller License: 1184 Driller Company: WEST TEXAS WATER WELL SERVICE

Driller Name: COLLIS, ROBERT E. (LD)

Drill Start Date: 10/09/1996 Drill

Drill Finish Date: 10/10/1996 **Plug Date:**

Log File Date:01/15/1997PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield: 100 GPM

Casing Size: Depth Well: 365 feet Depth Water:

Water Bearing Stratifications: Top Bottom Description

300 365 Sandstone/Gravel/Conglomerate

Meter Number: 18966 Meter Make:

Meter Serial Number:Meter Multiplier:1.0000Number of Dials:1Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly (No Reading

Expected)

**YTD Meter Amounts: Year Amount

2017

Meter Number:19007Meter Make:OCTAVEMeter Serial Number:19235055Meter Multiplier:1.0000Number of Dials:9Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
02/01/2017	2017	2599614	Α	RPT	0
04/01/2017	2017	2627531	Α	RPT	3.598
05/01/2017	2017	2631319	Α	RPT	0.488
06/01/2017	2017	2652251	Α	RPT	2.698
07/01/2017	2017	2720508	Α	RPT	8.798
08/01/2017	2017	2782114	Α	RPT	7.941
09/01/2017	2017	2858989	Α	RPT	9.909
10/01/2017	2017	2906622	Α	RPT	6.140

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	g Rdr Comment	Mtr Amount Online
11/01/2017	2017	2912696	Α	RPT	0.783
12/01/2017	2017	2998304	Α	RPT	11.034
02/01/2018	2018	3146658	Α	RPT	19.122
03/01/2018	2018	3212353	Α	RPT	8.468
04/01/2018	2018	3286487	Α	RPT	9.555
05/01/2018	2018	3381113	Α	RPT	12.197
06/01/2018	2018	3470486	Α	RPT	11.520
07/01/2018	2018	3547614	Α	RPT	9.941
09/01/2018	2018	3569776	Α	RPT	2.857
12/01/2018	2018	4076874	Α	RPT	65.362
01/01/2019	2018	4181523	Α	RPT	13.489
02/01/2019	2019	4296954	Α	RPT	14.878
03/01/2019	2019	4346796	Α	RPT	6.424
04/01/2019	2019	4365803	Α	RPT	2.450
05/01/2019	2019	4418132	Α	RPT	6.745
07/31/2019	2019	0	Α	RPT	0
09/30/2019	2019	325518	Α	RPT	41.957
10/31/2019	2019	388564	Α	RPT	8.126
12/31/2019	2019	622880	Α	RPT	30.202
01/19/2020	2020	672026	Α	RPT	6.335
01/19/2020	2020	0	Α	RPT	0
01/31/2020	2020	336667	Α	RPT	1.033
03/31/2020	2020	9198198	Α	RPT	27.195
08/31/2020	2020	25497766	Α	RPT	50.022
09/30/2020	2020	29234202	Α	RPT	11.467
11/30/2020	2020	36579854	Α	RPT	22.543
12/31/2020	2020	40821185	Α	RPT	13.016
01/31/2021	2021	45738623	Α	RPT	15.091
**YTD Meter	r Amou	ınts: Year		Amount	
		2017		51.389	
		2018		152.511	
		2019		110.782	
		2020		131.611	
		2021		15.091	

Meter Number: 19056 Meter Make: MASTER METER

Meter Serial Number:19814845Meter Multiplier:10.0000Number of Dials:6Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly

2/8/22 8:39 AM Page 2 of 3 POD SUMMARY - CP 00857 POD1

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	g Rdr Comment	Mtr Amount (
11/30/2020	2020	38460	Α	RPT	0
12/31/2020	2020	42150	Α	RPT	0.113
01/31/2021	2021	49850	Α	RPT	0.236
**YTD Mete	r Amoun	ts: Year		Amount	
		2020		0.113	
		2021		0.236	

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

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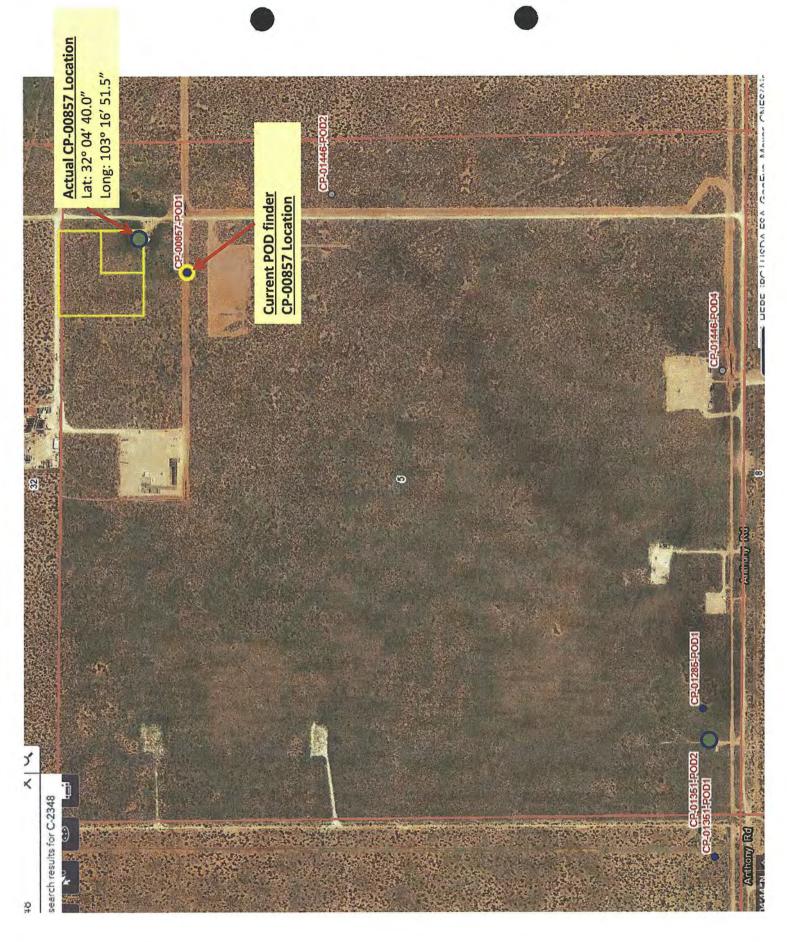
NEW MEXICO OFFICE OF THE STATE ENGINEER Update Well Location



Date: 03/27/2020 P	OD No.:	CP-00857-PO	D1		05	SE Staff: Chris	Angel	
Instructions:	one adm (Ph. 1977)	a company va NC	o					
Use this form to correct or up by creating a UWL transaction							WATERS	
Current Location:								
NM State Plane (NAD83) - In feet		NM West Zone NM Central Zone NM East Zone		X (in fe	•			
UTM (NAD83) - In meters	- 1	UTM Zone 13N UTM Zone 12N		_	(in meters) g (in meters			
Lat/Long (WGS84) - To 1/10 th of se	- L	Lat:		deg		min		sec
Check if seconds are decimal for		Long:		deg		min		sec
Other Location Information (complete PLSS Quarters or Halves: SW1/48			Section:	05	Towr	ı ship: 26 South_	Range: 36 E	ast
County: Lea					Subasin:	Capitan		
Updated Location: NM State Plane (NAD83) - In feet		NM West Zone NM Central Zone NM East Zone		X (in fe	•			
UTM (NAD83) - in meters	1	UTM Zone 13N UTM Zone 12N		_	(in meters)			
Lat/Long (WGS84) - To 1/10 th of se		Lat: 32		deg	04	min	40.0	sec
Check if seconds are decimal for	ormat	Long: 103		deg	16	min	51.5	sec
Other Location Information (comple				0.5	_		D 001	F 4
TOO GOGILLOO OF FIGURES.	NW1/4NE	1/4NE1/4	Section:	05		ship: 26 South	Range: 36 i	East
County: Lea					Subasin:	Capitan		
Comments:								
A GPS was used to locate	e the w	ell on the atta	ached m	пар.				
								:
		_						

Update Well Location Form, Rev. 12/11/18

Trn. No.: 12/09/5







Revised June 1972

yr dd			STATE EN	GINEER O				416350	
			Section 1. GENE	RAL INF	ORMATI	ON E	Recomple	tion	
A) Owner	of well	nthony R	anch			o			
Street o	or Post Office A	ddress New	. Box 398 Mexico 8825	2					
iati maa duiti	ad undar Darmi	t No		aı	nd is loca	ted in the:			
٨٧٨	Y KW	ν ₋ ν	¼ of Section	5	Township	26 S	Pane 36	E NMP	
XX	XX	SMINEINEI	A of Section		10411,211,	,	Nange		
),						
d. X= _		feet, Y=		feet. N.M.	Coordina	te System		Zone	
								Grai	
3) Drilling	Contractor	West Texa	ıs Water Wel	1 Serv	ice	License No	WD-118	34	
ddress	. 34	132 W. Un	niversity, O	dessa,	TX	79764			
rilling Began	10-9-9	Gomi	pleted 10-10-91	5T;	ype tools	air rota	ry Size	of hole 9 7/8	
levation of la	and surface or .			. at well is.		ft. Total de	pth of well_	365	
ompleted we	.i.e r¥\.	shallow 🔲 a	actesian	Der	ith to wa	ter unan cample	tion of well		
ompiced we							tion or well _		
Depth	in Feet	Thickness	tion 2. PRINCIPAL V				Es	timated Yield	
From	То	in Feet		Description of Water-Bearing Formation (gallons					
_	T		مالندم مسللم		na fu	om avicti	notwell	and	
	xas Wate	h Well So	ervice pulle	d casi	119 11	OIII EXIST	119 11031		
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deepene	d it 65'			ndston	e wit	h streaks			
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deepene 300 Diameter	365 Pounds	65	Broken sa of brown Section 3. REC	ndston	e wit	h streaks	Shoe	Perforations	
deepene 300	d it 65'	65	Broken sa of brown Section 3, REC	ndston	e wit	h streaks m+	Shoe		
deepene 300 Diameter	365 Pounds	65	Broken sa of brown Section 3. REC	ndston	e wit	h streaks m+	Shoe	Perforations	
deepene 300 Diameter	365 Pounds	65	Broken sa of brown Section 3. REC	ndston	e wit	h streaks m+	Shoe	Perforations	
deepene 300 Diameter	365 Pounds	65	Broken sa of brown Section 3. REC	ndston	e wit	h streaks m+	Shoe	Perforations	
deepene 300 Diameter (inches)	d it 65' 365 Pounds per foot	Threads per in.	Broken sa of brown Section 3. REC	ndston sand 1 CORD OF	CASING Length (feet)	h streaks m+	Shoe	Perforations	
deepene 300 Diameter (inches)	365 Pounds	Threads per in.	Broken sa of brown Section 3. REC Depth in Feet Top Bott	ndston sand 1 CORD OF	CASING Length (feet) AND CE	h streaks m+ Type of	Shoe	Perforations From To	
Diameter (inches) Depth From	Pounds per foot	Threads per in. Section Hole Diameter	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks	ndston sand 1 CORD OF om UDDING Cubic of Cen	CASING Length (feet) AND CE	h streaks m+ Type of: MENTING Me	Shoe thod of Place	Perforations From To	
deepene 300 Diameter (inches)	d it 65' 365 Pounds per foot	Threads per in.	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks	ndston sand 1 CORD OF om	CASING Length (feet) AND CE	h streaks m+ Type of	Shoe thod of Place	Perforations From To	
Depth From	Pounds per foot	Threads per in. Section Hole Diameter	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks	ndston sand 1 CORD OF om UDDING Cubic of Cen	CASING Length (feet) AND CE	h streaks m+ Type of: MENTING Me	Shoe thod of Place	Perforations From To	
Depth From	Pounds per foot	Threads per in. Section Hole Diameter	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks	ndston sand 1 CORD OF om UDDING Cubic of Cen	CASING Length (feet) AND CE	h streaks m+ Type of: MENTING Me	Shoe thod of Place	Perforations From To	
Diameter (inches) Depth From 0	Pounds per foot in Feet To 15	Section Hole Diameter	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks of Mud Section 5. PLU	ndston sand 1 CORD OF om CUDDING Cubic of Cen	CASING Length (feet)	h streaks m+ Type of: MENTING Me	Shoe thod of Place	Perforations From To	
Diameter (inches) Depth From 0	Pounds per foot in Feet To 15	Section Hole Diameter 9 7/8	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks of Mud Section 5. PLU	ndston sand 1 CORD OF om CUDDING Cubic of Cen	CASING Length (feet) AND CE Feet nent	h streaks m+ Type of MENTING Me Poured S1	Shoe thod of Place	Perforations From To	
Depth From 0 gging Contra dress gging Metho	Pounds per foot in Feet To 15	Section Hole Diameter 9 7/8	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks of Mud Section 5. PLU	ndston sand 1 CORD OF om CUDDING Cubic of Cen	CASING Length (feet) AND CE Feet nent No.	h streaks m+ Type of: MENTING Me	Shoe thod of Place	Perforations From To	
Depth From 0 gging Contra dress gging Metho te Well Plugg	Pounds per foot in Feet To 15	Section Hole Diameter 9 7/8	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks of Mud Section 5. PLU	ndston sand 1 CORD OF om CUDDING Cubic of Cen	CASING Length (feet) AND CE Feet nent No.	h streaks m+ Type of MENTING Me Poured S!	Shoe thod of Place	Perforations From To ment Cubic Feet	
Depth From 0	Pounds per foot in Feet To 15	Section Hole Diameter 9 7/8	Broken sa of brown Section 3. REC Depth in Feet Top Bott on 4. RECORD OF M Sacks of Mud Section 5. PLU	ndston sand 1 CORD OF om CUDDING Cubic of Cen	CASING Length (feet) AND CE Feet nent No.	h streaks m+ Type of streaks MENTING Me Poured S1	Shoe thod of Place	Perforations From To ment Cubic Feet	

Stock

Location No. 26.36.5.22322

File No._

CP-857

1/19/2022 2:			Section 6. LOG OF HOLE							
Depti	n in Feet	hickness in Feet	Color and Type of Ma Incountered							
From	To	in Feet	Color and type of Ma							
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Section 7. REMARKS AND ADDITIONAL INFORMATION

STAYE ENDING THE OTTHE ROSWELL WAY MEXICO

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

Driller

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

Appendix C

Certificates of Analysis





October 13, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA, SUITE 600

AUSTIN, TX 78746

RE: REDBUD 8N

Enclosed are the results of analyses for samples received by the laboratory on 10/06/22 14:08.

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/ga/lab accred certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Reported:

13-Oct-22 08:52



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

Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS - 04 4.5FT	H224694-01	Soil	05-Oct-22 09:01	06-Oct-22 14:08
GS - 04S 0-2FT	H224694-02	Soil	05-Oct-22 09:06	06-Oct-22 14:08
GS - 04S 2-4FT	H224694-03	Soil	05-Oct-22 09:10	06-Oct-22 14:08
GS - 04S 4.5FT	H224694-04	Soil	05-Oct-22 09:15	06-Oct-22 14:08
GS - 05 4.5FT	H224694-05	Soil	05-Oct-22 09:18	06-Oct-22 14:08
GS - 05 5.5FT	H224694-06	Soil	05-Oct-22 09:21	06-Oct-22 14:08
GS - 05 6.5FT	H224694-07	Soil	05-Oct-22 09:25	06-Oct-22 14:08
GS - 05W 0-2FT	H224694-08	Soil	05-Oct-22 09:28	06-Oct-22 14:08
GS - 05W 2-4FT	H224694-09	Soil	05-Oct-22 09:32	06-Oct-22 14:08
GS - 06 4.5FT	H224694-10	Soil	05-Oct-22 09:35	06-Oct-22 14:08
GS - 06N 0-2FT	H224694-11	Soil	05-Oct-22 09:37	06-Oct-22 14:08
GS - 06N 2-4FT	H224694-12	Soil	05-Oct-22 09:41	06-Oct-22 14:08
GS - 07 4.5FT	H224694-13	Soil	05-Oct-22 09:43	06-Oct-22 14:08
GS - 08 4.5FT	H224694-14	Soil	05-Oct-22 09:50	06-Oct-22 14:08
GS - 09 4.5FT	H224694-15	Soil	05-Oct-22 09:55	06-Oct-22 14:08
GS - 09 5.5FT	H224694-16	Soil	05-Oct-22 09:59	06-Oct-22 14:08
GS - 09 6.5FT	H224694-17	Soil	05-Oct-22 10:03	06-Oct-22 14:08
GS - 10S 0-2FT	H224694-19	Soil	05-Oct-22 10:15	06-Oct-22 14:08
GS - 10S 2-4FT	H224694-20	Soil	05-Oct-22 10:19	06-Oct-22 14:08
GS - 11 4.5FT	H224694-21	Soil	05-Oct-22 10:23	06-Oct-22 14:08
GS - 11N 0-2FT	H224694-22	Soil	05-Oct-22 10:27	06-Oct-22 14:08
GS - 11N 2-4FT	H224694-23	Soil	05-Oct-22 10:31	06-Oct-22 14:08
GS - 12 4.5FT	H224694-24	Soil	05-Oct-22 10:35	06-Oct-22 14:08
GS - 12 5.5FT	H224694-25	Soil	05-Oct-22 10:40	06-Oct-22 14:08
GS - 12 6.5FT	H224694-26	Soil	05-Oct-22 10:43	06-Oct-22 14:08
GS - 13 4.5FT	H224694-27	Soil	05-Oct-22 10:48	06-Oct-22 14:08
GS - 14 4.5FT	H224694-28	Soil	05-Oct-22 10:52	06-Oct-22 14:08

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600 AUSTIN TX, 78746		Project Number:	REDBUD 8N 20220813-1610-COMPLETIONS ANDREW PARKER	Reported: 13-Oct-22 08:52
GS - 14E 0-2FT	H224694-29	Soil	05-Oct-22 10:56	06-Oct-22 14:08
GS - 14E 2-4FT	H224694-30	Soil	05-Oct-22 10:59	06-Oct-22 14:08
GS - 01 2FT	H224694-31	Soil	06-Oct-22 08:25	06-Oct-22 14:08
GS - 01S 0FT	H224694-32	Soil	06-Oct-22 08:29	06-Oct-22 14:08
GS - 02 0FT	H224694-33	Soil	06-Oct-22 08:34	06-Oct-22 14:08
GS - 03 2FT	H224694-34	Soil	06-Oct-22 08:40	06-Oct-22 14:08
GS - 03E 0FT	H224694-35	Soil	06-Oct-22 08:43	06-Oct-22 14:08
REDBUD BACKFILL	H224694-36	Soil	06-Oct-22 12:28	06-Oct-22 14:08

10/13/22 - Client changed the sample ID of -01 (See COC). This is the revised report and will replace the one sent on 10/11/22.

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

Project: REDBUD 8N Project Number: 20220813-1610-COMPLETIONS

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Manager: ANDREW PARKER

Fax To:

GS - 04 4.5FT H224694-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	5920		16.0	mg/kg	4	2101020	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100707	JН	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			91.6 %	69.9	-140	2100707	JH	10-Oct-22	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			104 %	45.3	-161	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			110 %	46.3	-178	2100715	MS	08-Oct-22	8015B	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported:

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS Project Manager: ANDREW PARKER

13-Oct-22 08:52

Fax To:

GS - 04S 0-2FT H224694-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	1520		16.0	mg/kg	4	2101020	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)))		91.3 %	69.9	-140	2100707	ЈН	10-Oct-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			102 %	45.3	-161	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			108 %	46.3	-178	2100715	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported:

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS

13-Oct-22 08:52

Project Manager: ANDREW PARKER

Fax To:

GS - 04S 2-4FT H224694-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	2480		16.0	mg/kg	4	2101020	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100707	JH	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		91.3 %	69.9	-140	2100707	ЈН	10-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			102 %	45.3	-161	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			107 %	46.3	-178	2100715	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 04S 4.5FT H224694-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2280		16.0	mg/kg	4	2101020	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			102 %	45.3	-161	2100715	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			107 %	46.3	-178	2100715	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 05 4.5FT H224694-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	5760		16.0	mg/kg	4	2101020	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)))		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			103 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			107 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 05 5.5FT H224694-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	5360		16.0	mg/kg	4	2101020	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	ЈН/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		103 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			102 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

GS - 05 6.5FT H224694-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	6400		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	QM-07
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		105 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			102 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 05W 0-2FT H224694-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			98.1 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			102 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 05W 2-4FT H224694-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		105 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

GS - 06 4.5FT H224694-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1800		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			99.7 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			102 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 06N 0-2FT H224694-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			96.8 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			99.1 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

Project: REDBUD 8N Project Number: 20220813-1610-COMPLETIONS

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Manager: ANDREW PARKER

Fax To:

GS - 06N 2-4FT H224694-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			97.4 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			101 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Celey D. Keene



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 07 4.5FT H224694-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	5920		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		103 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			99.4 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			103 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 08 4.5FT H224694-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	2520		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			99.3 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			103 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

GS - 09 4.5FT H224694-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	6400		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			100 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			104 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 09 5.5FT H224694-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	5440		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			104 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 09 6.5FT H224694-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	6160		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			103 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			107 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

AMEREDEV

2901 VIA FORTUNA, SUITE 600 **AUSTIN TX, 78746**

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 10S 0-2FT H224694-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			102 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Celey D. Keene



Analytical Results For:

AMEREDEV

2901 VIA FORTUNA, SUITE 600 **AUSTIN TX, 78746**

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 10S 2-4FT H224694-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			105 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			110 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Celey D. Keene



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

GS - 11 4.5FT H224694-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	6400		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		106 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			107 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 11N 0-2FT H224694-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported:

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS Project Manager: ANDREW PARKER

13-Oct-22 08:52

Fax To:

GS - 11N 2-4FT H224694-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		105 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			103 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			108 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 12 4.5FT H224694-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	6720		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100738	JH/	09-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2100738	JH/	09-Oct-22	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			105 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			109 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 12 5.5FT H224694-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	4720		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		104 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3	-161	2100716	MS	08-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	46.3	-178	2100716	MS	08-Oct-22	8015B	

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Analytical Results For:

AMEREDEV

2901 VIA FORTUNA, SUITE 600 **AUSTIN TX, 78746**

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 12 6.5FT H224694-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	2320		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		104 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			75.8 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			89.3 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported:

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS Project Manager: ANDREW PARKER

13-Oct-22 08:52

Fax To:

GS - 13 4.5FT H224694-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	6000		16.0	mg/kg	4	2101028	GM	10-Oct-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			75.6 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			87.4 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

2901 VIA FORTUNA , SUITE 600 AUSTIN TX, 78746 Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 14 4.5FT H224694-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		102 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			77.5 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			89.9 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 14E 0-2FT H224694-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			82.4 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			96.3 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Reported:

13-Oct-22 08:52



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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

GS - 14E 2-4FT H224694-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	ЈН/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		·	102 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			79.6 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			94.0 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Celey D. Keine



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 01 2FT H224694-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		104 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			94.7 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			119 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 01S 0FT

H224694-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100739	JH/	10-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		103 %	69.9	-140	2100739	JH/	10-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			77.1 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 02 0FT H224694-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	352		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		95.4 %	69.9	-140	2100737	ЈН	08-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			79.0 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			93.3 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600 Project: REDBUD 8N
Project Number: 20220813-1610-COMPLETIONS

Reported: 13-Oct-22 08:52

AUSTIN TX, 78746

Project Manager: ANDREW PARKER

Fax To:

GS - 03 2FT H224694-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		95.9 %	69.9	-140	2100737	ЈН	08-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			74.2 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			88.8 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Celeg D. Keene



Analytical Results For:

AMEREDEV

2901 VIA FORTUNA, SUITE 600 **AUSTIN TX, 78746**

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

GS - 03E 0FT H224694-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100737	JН	08-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pi	ID)		95.5 %	69.9	0-140	2100737	ЈН	08-Oct-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			78.0 %	45.3	R-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			91.9 %	46.3	2-178	2100717	MS	10-Oct-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

2901 VIA FORTUNA , SUITE 600 AUSTIN TX, 78746 Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

REDBUD BACKFILL

H224694-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2101011	GM	11-Oct-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2100737	JH	08-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.8 %	69.9	-140	2100737	JH	08-Oct-22	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctane			78.5 %	45.3	-161	2100717	MS	10-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			91.9 %	46.3	-178	2100717	MS	10-Oct-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
·	result	Limit	Omis	Level	resuit	/UKLC	Limio	IG D	Dillit	110103
Batch 2101011 - 1:4 DI Water										
Blank (2101011-BLK1)				Prepared &	Analyzed:	10-Oct-22				
Chloride	ND	16.0	mg/kg							
LCS (2101011-BS1)				Prepared &	: Analyzed:	10-Oct-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2101011-BSD1)				Prepared &	Analyzed:	10-Oct-22				
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
Batch 2101020 - 1:4 DI Water										
Blank (2101020-BLK1)				Prepared &	: Analyzed:	10-Oct-22				
Chloride	ND	16.0	mg/kg							
LCS (2101020-BS1)				Prepared &	: Analyzed:	10-Oct-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2101020-BSD1)				Prepared &	: Analyzed:	10-Oct-22				
Chloride	416	16.0	mg/kg	400	-	104	80-120	3.77	20	
Batch 2101028 - 1:4 DI Water										
Blank (2101028-BLK1)				Prepared &	: Analyzed:	10-Oct-22				
Chloride	ND	16.0	mg/kg							
LCS (2101028-BS1)				Prepared &	Analyzed:	10-Oct-22				
Chloride	416	16.0	mg/kg	400	·	104	80-120	·		

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Celey D. Keene



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 **AUSTIN TX, 78746**

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Reported: 13-Oct-22 08:52

Project Manager: ANDREW PARKER

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2101028 - 1:4 DI Water

LCS Dup (2101028-BSD1)				Prepared & Analyzed: 1	10-Oct-22			
Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20

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%REC

Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Source

Project Manager: ANDREW PARKER

Spike

Fax To:

Reported: 13-Oct-22 08:52

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

		reporting		F						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2100707 - Volatiles										
Blank (2100707-BLK1)				Prepared: (7-Oct-22 A	nalyzed: 0	9-Oct-22			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		91.9	69.9-140			
LCS (2100707-BS1)				Prepared: (7-Oct-22 A	nalyzed: 0	9-Oct-22			
Benzene	2.29	0.050	mg/kg	2.00		115	83.4-122			
Toluene	2.16	0.050	mg/kg	2.00		108	84.2-126			
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	84.2-121			
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	89.9-126			
o-Xylene	2.03	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.34	0.150	mg/kg	6.00		106	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0451		mg/kg	0.0500		90.2	69.9-140			
LCS Dup (2100707-BSD1)				Prepared: (7-Oct-22 A	nalyzed: 0	9-Oct-22			
Benzene	2.26	0.050	mg/kg	2.00		113	83.4-122	1.42	12.6	
Toluene	2.13	0.050	mg/kg	2.00		107	84.2-126	1.43	13.3	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121	1.34	13.9	
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	89.9-126	1.70	13.6	
o-Xylene	2.00	0.050	mg/kg	2.00		99.9	84.3-123	1.44	14.1	
Total Xylenes	6.24	0.150	mg/kg	6.00		104	89.1-124	1.62	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0450		mg/kg	0.0500		90.0	69.9-140			

Batch 2100737 - Volatiles

Blank (2100737-BLK1)			Prepared: 07-Oct-22 Analyzed: 08-Oct-22
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600 AUSTIN TX, 78746 Project: REDBUD 8N ject Number: 20220813-1

Reporting

Project Number: 20220813-1610-COMPLETIONS

Source

Reported: 13-Oct-22 08:52

RPD

Project Manager: ANDREW PARKER

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2100737 - Volatiles										
Blank (2100737-BLK1)				Prepared: (7-Oct-22 A	nalyzed: 0	8-Oct-22			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.2	69.9-140			
LCS (2100737-BS1)				Prepared: 0	7-Oct-22 A	nalyzed: 0	8-Oct-22			
Benzene	2.20	0.050	mg/kg	2.00		110	83.4-122			
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.18	0.100	mg/kg	4.00		104	89.9-126			
o-Xylene	1.98	0.050	mg/kg	2.00		99.1	84.3-123			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0456		mg/kg	0.0500		91.3	69.9-140			
LCS Dup (2100737-BSD1)				Prepared: (7-Oct-22 A	nalyzed: 0	8-Oct-22			
Benzene	2.13	0.050	mg/kg	2.00		106	83.4-122	3.32	12.6	
Toluene	2.03	0.050	mg/kg	2.00		102	84.2-126	3.06	13.3	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.8	84.2-121	3.46	13.9	
m,p-Xylene	4.02	0.100	mg/kg	4.00		101	89.9-126	3.75	13.6	
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	84.3-123	3.53	14.1	
Total Xylenes	5.94	0.150	mg/kg	6.00		99.0	89.1-124	3.68	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.1	69.9-140			

Batch 2100738 - Volatiles

Blank (2100738-BLK1)				Prepared: 07-Oct-2	22 Analyzed: 09	9-Oct-22	
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500	104	69.9-140	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

AMEREDEV 2901 VIA FORTUNA, SUITE 600 Project: REDBUD 8N

Reported:

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS Project Manager: ANDREW PARKER

Spike

Source

13-Oct-22 08:52

RPD

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2100738 - Volatiles										
LCS (2100738-BS1)				Prepared: 0	7-Oct-22 A	nalyzed: 0	9-Oct-22			
Benzene	2.11	0.050	mg/kg	2.00		105	83.4-122			
Toluene	2.09	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.2-121			
m,p-Xylene	4.20	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	2.04	0.050	mg/kg	2.00		102	84.3-123			
Total Xylenes	6.24	0.150	mg/kg	6.00		104	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			
LCS Dup (2100738-BSD1)				Prepared: (7-Oct-22 A	nalyzed: 0	9-Oct-22			
Benzene	2.04	0.050	mg/kg	2.00		102	83.4-122	3.35	12.6	
Toluene	2.03	0.050	mg/kg	2.00		102	84.2-126	2.61	13.3	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.5	84.2-121	3.66	13.9	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89.9-126	3.78	13.6	
o-Xylene	1.94	0.050	mg/kg	2.00		96.9	84.3-123	4.91	14.1	
Total Xylenes	5.98	0.150	mg/kg	6.00		99.7	89.1-124	4.15	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	69.9-140			
Batch 2100739 - Volatiles										
Blank (2100739-BLK1)				Prepared: ()7-Oct-22 A	nalyzed: 1	0-Oct-22			

Blank (2100739-BLK1)				Prepared: 07-Oct-2	22 Analyzed: 1	0-Oct-22	
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500	100	69.9-140	

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Celey D. Keens



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600 AUSTIN TX, 78746 Project: REDBUD 8N

Reported:

SUITE 600 Project Number

Project Number: 20220813-1610-COMPLETIONS

13-Oct-22 08:52

Project Manager: ANDREW PARKER

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

	D 1:	Reporting	T T *-	Spike	Source	A/DEG	%REC	DDD	RPD	37.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2100739 - Volatiles										
LCS (2100739-BS1)				Prepared: 0	7-Oct-22 A	nalyzed: 10	0-Oct-22			
Benzene	2.05	0.050	mg/kg	2.00		102	83.4-122			
Toluene	1.87	0.050	mg/kg	2.00		93.4	84.2-126			
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	84.2-121			
m,p-Xylene	3.73	0.100	mg/kg	4.00		93.3	89.9-126			
o-Xylene	1.87	0.050	mg/kg	2.00		93.5	84.3-123			
Total Xylenes	5.99	0.150	mg/kg	6.00		99.9	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	69.9-140			
LCS Dup (2100739-BSD1)				Prepared: 0	7-Oct-22 A	nalyzed: 10	0-Oct-22			
Benzene	2.01	0.050	mg/kg	2.00		101	83.4-122	1.53	12.6	
Toluene	1.99	0.050	mg/kg	2.00		99.6	84.2-126	6.44	13.3	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	84.2-121	7.51	13.9	
m,p-Xylene	4.02	0.100	mg/kg	4.00		101	89.9-126	7.42	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.6	84.3-123	4.27	14.1	
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	89.1-124	0.320	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	69.9-140			

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Celey D. Keine



Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Project Manager: ANDREW PARKER

Fax To:

Reported: 13-Oct-22 08:52

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2100715 - General Prep - Organics										

Blank (2100715-BLK1)				Prepared & Anal	lyzed: 07-Oct-22				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0	110	45.3-161			
Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0	115	46.3-178			
LCS (2100715-BS1)				Prepared & Anal	lyzed: 07-Oct-22				
GRO C6-C10	213	10.0	mg/kg	200	106	76.8-124			
DRO >C10-C28	220	10.0	mg/kg	200	110	74.9-127			
Total TPH C6-C28	433	10.0	mg/kg	400	108	77.5-124			
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0	119	45.3-161			
Surrogate: 1-Chlorooctadecane	63.9		mg/kg	50.0	128	46.3-178			
LCS Dup (2100715-BSD1)				Prepared & Anal	lyzed: 07-Oct-22				
GRO C6-C10	217	10.0	mg/kg	200	109	76.8-124	2.20	17.2	
DRO >C10-C28	229	10.0	mg/kg	200	114	74.9-127	3.73	18.6	
Total TPH C6-C28	446	10.0	mg/kg	400	111	77.5-124	2.98	17.6	

	Batch 2100716 -	General Prep	- Organics
--	-----------------	--------------	------------

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Blank (2100716-BLK1)				Prepared: 07-Oct-	-22 Analyzed: 0	8-Oct-22	
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0	113	45.3-161	
Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0	116	46.3-178	

mg/kg

mg/kg

50.0

50.0

127

136

45.3-161

46.3-178

63.5

68.2

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%REC

Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600 Project: REDBUD 8N

Reported: 13-Oct-22 08:52

RPD

AUSTIN TX, 78746

Project Number: 20220813-1610-COMPLETIONS

Spike

Source

Project Manager: ANDREW PARKER

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

		Reporting		Spike	Source		%KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2100716 - General Prep - Organic	es s									
LCS (2100716-BS1)				Prepared: ()7-Oct-22 A	nalyzed: 0	8-Oct-22			
GRO C6-C10	219	10.0	mg/kg	200		110	76.8-124			
DRO >C10-C28	224	10.0	mg/kg	200		112	74.9-127			
Total TPH C6-C28	443	10.0	mg/kg	400		111	77.5-124			
Surrogate: 1-Chlorooctane	63.8		mg/kg	50.0		128	45.3-161			
Surrogate: 1-Chlorooctadecane	64.8		mg/kg	50.0		130	46.3-178			
LCS Dup (2100716-BSD1)				Prepared: (07-Oct-22 A	nalyzed: 0	8-Oct-22			
GRO C6-C10	216	10.0	mg/kg	200		108	76.8-124	1.30	17.2	
DRO >C10-C28	225	10.0	mg/kg	200		113	74.9-127	0.530	18.6	
Total TPH C6-C28	441	10.0	mg/kg	400		110	77.5-124	0.369	17.6	
Surrogate: 1-Chlorooctane	67.7		mg/kg	50.0		135	45.3-161			
Surrogate: 1-Chlorooctadecane	68.0		mg/kg	50.0		136	46.3-178			
Batch 2100717 - General Prep - Organic	:s									
Blank (2100717-BLK1)				Prepared: ()7-Oct-22 A	nalyzed: 1	0-Oct-22			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.0		mg/kg	50.0		80.0	45.3-161			
Surrogate: 1-Chlorooctadecane	47.1		mg/kg	50.0		94.2	46.3-178			
LCS (2100717-BS1)				Prepared: ()7-Oct-22 A	nalyzed: 1	0-Oct-22			
GRO C6-C10	211	10.0	mg/kg	200		106	76.8-124			
DRO >C10-C28	203	10.0	mg/kg	200		101	74.9-127			
Total TPH C6-C28	414	10.0	mg/kg	400		103	77.5-124			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.9	45.3-161			
Surrogate: 1-Chlorooctadecane	56.3		mg/kg	50.0		113	46.3-178			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

AMEREDEV 2901 VIA FORTUNA , SUITE 600

Analyte

AUSTIN TX, 78746

Project: REDBUD 8N

Project Number: 20220813-1610-COMPLETIONS

Source

Result

%REC

Project Manager: ANDREW PARKER

Spike

Level

Fax To:

Reported: 13-Oct-22 08:52

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Batch 2100717 - General Prep - Orga	anics							
LCS Dup (2100717-BSD1)				Prepared: 07-Oc	t-22 Analyzed: 1	0-Oct-22		
GRO C6-C10	215	10.0	mg/kg	200	108	76.8-124	1.88	17.2
DRO >C10-C28	203	10.0	mg/kg	200	101	74.9-127	0.0316	18.6
Total TPH C6-C28	418	10.0	mg/kg	400	104	77.5-124	0.981	17.6
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0	101	45.3-161		
Surrogate: 1-Chlorooctadecane	62.2		mg/kg	50.0	124	46.3-178		

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Celey D. Keene



Notes and Definitions

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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 48 of 52



	Control connect accept workal changes Please email changes to celev keene@cardinallabsnm.com	Please email cha	LI No LI No	+ Cardinal cannot a	3.3 07/16/22	FORM-000
Standard C Bacteria (only) Sample Conductor Rush Cool Infact Observed Temp. °C Lyes Yes No Corrected Temp. °C	Turnaround Time: St	(Initials)	10 -	Observed Temp. °C 36 Corrected Temp. °C 3,0	her:	Delivered By: (Circle One) Sampler - UPS - Bus - Ot
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	er completion of the applicable client, its subsidiaries, asons or otherwise.	ed by Cardinal within 30 days after se, or loss of profits incurred by tunon any of the above stated to	d unless made in writing and receiv ion, business interruptions, loss of t	r cause whatsoever shall be doemed waived unless made in writing and received by Cardinal within 30 days after completion of the period of the completion of the property of the completion of the property of the completion of the period of the completion of the com	e for negligence and any other of the liable for incidental or conse	analyses. All claims including service. In no event shall Can
	d by the client for the	shall be limited to the amount pa	g whether based in contract or tort.	nn's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	Damages. Cardinal's liability and client	PLEASE NOTE: Liability and Dam
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)		Phone #:	Pho		d .	Project Location:
	RO	e: Zip:	State:	completions	1610.	Project Name: 2022 0313-
	+)		City:	Project Owner:		Project #:
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		Attn: aparter@amerder. un	Attn	State: Zip:		City:
		Company: Ameredey	Com		-	Address: On
	1610-completion	P.O. #: 20220813-1610	P.O.	C	Andrew Parker	roject Manager:
ANALYSIS REQUEST		BILL TO			Amendou	Company Name:
				(575) 393-2476	(575) 393-2326 FAX (575) 393-2476	



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

(0/0) 333-2320	2320 FAA (3/3) 393-24/0	9/4			
Company Name: A mereden			BILL TO		ANALYSIS REQUEST
Project Manager: Andrew	Partier		P.O. #: 2022083-1610-completion	- completions	
Address: On - File			Company: Amereder		
City:	State:	Zip:	Attn: Aparter Quanereder com	ereder. com	
Phone #:	Fax #:	, i	Address:		
Project #:	Project Owner:	ח	City:	4R	
Project Name: 20220813-11	1610-completions		State: Zip:	+/	
Project Location: Relbud	NE		Phone #:	Ro	
Sampler Name: Christing	her Turker		Fax #:	Di	
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	
Lab I.D. Sar	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		
GS-0	6N 0-ZF+	_		0.00	
65-	+ 4.5F+			4:43	
14 65-08	4.5F+			9:50	
16 65-09	5.5FT			9:59	
17 65-09	6.55			10:03	1
18 6810	436.4			10:16	No empare (10.06.0022
G15-1	05 2-4Ff	A A A	<	10:19 W W	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses, All claims including those for negligence and any other cause whatbower shall be deemed without unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including whiteful limitation, business interruptions, loss of use, or loss of profits incrimented by client, its subsidiaries, affiliaties or successors arising out of or related to the performance of services between the profit of the performance of services between the profit of the performance of services between the profit of the performance of services between the profit of the performance of services between the profit of the performance of services and the profit of the performance of services or profit or profit of the performance of services are the profit of the performance of services between the profit or	liability and client's exclusive remedy for any and any other cause whatsoever shall be de ental or consequental damages, including w a performance of services hereunder by Car	ny claim arising whether based in on deemed waived unless made in wrong without limitation, business interru- ardinal, regardless of whether suc-	sed in contract or tort, shall be limited to the amount p be in writing and received by Cardinal within 30 days at interruptions, loss of use, or loss of profits incurred by interruptions, loss of use, or loss of profits above stated ther such claim is based upon any of the above stated	aid by the client for the fler completion of the applicable y client, its subsidiaries, reasons or otherwise.	
ished B	Date: 4-22 fime: 40-22	Received By:	111	Result:	□ No Add'I Phone #: sase provide Email address;
Relinquished By:	Date:	Received By:	o comments	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.0	Sample Cool	CHECKED BY: Intact (Initials) s Tyes	Turnaround Time: Stan Rust Thermometer ID #113 Correction Factor -0.6°C	Standard A Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C



Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:		Relinquished By:	affiliates or successors arising	analyses. All claims including	36	239	2c	CR	200	24	24	n	il	2	HOWHICH		Lab I.D.		FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	City:	Address: On	Project Manager:	Company Name:
cle One) lus - Other:			X	1	sors arising out of or related to the perform	those for negligence and any tinal be liable for incidental or	GS-14E	GS-14E	GS-14	GS-13	G15-12	C8-12	GS-12	GS-11N	GS-IIN	G18-11 4			Sample I.D.			Charter pher 1	Redhind 8N	2022 0813-1616-				- File		Amerider
Observed Temp. °C Corrected Temp. °C	Time:	Date:	1 Jime; 408	18-6-22	mance of services hereunder by Cardinal, regard	other cause whatsoever shall b consequental damages, including	2-4 Ft	8-ZF+	4.5Ft	4.5F+	6.5 Ft	5.5 F+	4.5 F+	2-4 Ft	0-25+	1.5			e I.D.			Winer		- Completions	Project Owner:	Fax #:	State:		Darker	1000 (010) 000 = 110
0100		Received By:	(Keceived by:	Cardinal, regard	e deemed walvo	V V									57		_	OR (C)OMP					ä		Zip:			
Sample Condition Cool Intact Tyes Tyes No No		ed By:	HAMBER C	ed by:	dless of whether such claim is based up	d unless made in writing and rection, business interruptions, loss	whether based in contract or to									<	-	DGE			MATRIX	Fa	P	St	Ω	Ac	At	C	P.	
CHECKED BY: (Initials)			Marit al		sed upon any of the above stated	ALEASE MV IE. Leading and utilities continues analysis of the property of any common state of the property of	S-14E 2-4 Ft V V V V V V V V V V V V 10:59								-	V 10-08	OTH DATE	/CO	SE:		PRESERV. SAN	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn: aporter Gameralevium	Company: Amereder	P.O. #: 20/20815-160-con pletion	BILL TO
Turnaround Time: Thermometer ID #113 Correction Factor -0.5°C		REMARKS:		em	7	ter completion of the applicable client, its subsidiaries,	aid by the client for the	10:56	10:52	10:48	10:43	10:40	10:35	10:31	10:27	10:23	TIME	h	lor	ide	SAMPLING	+	n,	ot	N	100	Jev. COR		apletias	
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Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C																														REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326	6 FAX (575) 393-2476			
Company Name: America		BILL TO	ANALYSIS REQUEST	
0	arker	P.O. #: 2022 0813-1610-completa	Completions.	
		Company: Amereden		
City:	State: Zip:	Attn: a partier of a mereder , com	30)	
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:	±/	
Project Name: 2022 08/3-1610-completions	o-completions	State: Zip:	Ro	
Project Location: Relbud 8	ν .	Phone #:	(h)	
Sampler Name: Christy pher	Turner	Fax #:	0 t	
	IP.	MATRIX PRESERV. SAM	3K	
Lab I.D. Samp	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorid	
31 GS-01 32 GS-015			8:25	
34 GS-03E	2F+ VV V	<	8:40	
36 Red bud Bay		0.06	12:28	
PLEASE NOTE: Liability and Damages. Cardinat's liability and planages. All claims including those for neplipance and a	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	ed in contract or ford, shall be limited to the amount pa in writing and received by Cardinal within 30 days at	d by the client for the rooms and the applicable	
Relinquished By	Relinquished By: Date: Date: Received By: Received By: All Results a All Results	er such claim is based upon any of the above stated in	atons or otherwise. Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:	Date: Received By:	My Wille Ja	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 36 Sample Cool Corrected Temp. °C 3.0	Sample Condition CHECKED BY: Cool Intact (Initials) Pres Pres	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #113 Correction Factor - 0.8°C Correction Factor - 0.8°C Correction Factor - 0.8°C Correction Factor - 0.8°C Correction Factor - 0.8°C Correction Factor - 0.8°C	



October 12, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD 8N

Enclosed are the results of analyses for samples received by the laboratory on 10/06/22 16:35.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/06/2022 Sampling Date: 10/06/2022

Reported: 10/12/2022 Sampling Type: Soil

Project Name: **REDBUD 8N** Sampling Condition: Cool & Intact Project Number: 20220813-1610-COMPLETIONS Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: GS - 10 4.5 FT (H224711-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2022	ND	2.22	111	2.00	0.232	
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756	
Total BTEX	<0.300	0.300	10/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	10/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2022	ND	216	108	200	0.0431	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	221	110	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					
Surrogate: 1-Chlorooctane	74.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane									

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



State: Zip: Fax #: Project Owner:	Zip:	P.O. #: 20120813-1610 Company: Amerale V Attn: Andrew Parker Address: City: State: 7in.
P.O. #: 2022 Company: AM Attn: And rew Address: City: State: Phone #: Fax #: PRESERV.	p: p:	EX, Benzene
TPH Extended	ANALYSIS	
TPH Extended	ANALYSIS REQUEST	REQUEST



October 17, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

RE: REDBUD 8N

AUSTIN, TX 78746

Enclosed are the results of analyses for samples received by the laboratory on 10/10/22 16:36.

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/ga/lab accred certif.html.

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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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/10/2022 Sampling Date: 10/10/2022

Reported: 10/17/2022 Sampling Type: Soil

Project Name: REDBUD 8N Sampling Condition: Cool & Intact
Project Number: 20220813-1610-COMPLETIONS Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: REDBUD 8N TOPSOIL 01 (H224754-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.32	116	2.00	4.87	
Toluene*	<0.050	0.050	10/14/2022	ND	2.21	110	2.00	4.79	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.15	107	2.00	4.59	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.48	108	6.00	4.14	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/13/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	193	96.3	200	0.921	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	194	96.9	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	89.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.5	% 46.3-17	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

B	Company Name: AMPYDIAN
0	(2/2) 22-222 (2/2) 22-22
	(675) 202 2226 EAY (675) 393-2476
	101 East Marland, Hobbs, NM 88240
	aboratories
	CARDINA

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		100000000000000000000000000000000000000
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	BILL TO	ANALYSIS REQUEST
Company Name: AMERAEN	Name of the last o	
Project Manager: Andrew Pour Key	P.O. #: 20220813-1610-COMPletions	
Address:	company: Ameredev	
	Attn: @ Pour Ken Barneseder, com	

	(575) 393-2326	FAX (575) 393-2476	476				-
Company Name:	Margaran			BILL TO		ANALYSIS REQUEST	_
Project Manager:	Andrew Parker	r Ker		P.O. #: 20220813-1610-COMPletions	ictions		
Address:	0			Company: Ameredev			
City:		State:	Zip:	Attn: @ Parker Boundreder, com	com		
Phone #.		Fax #:		Address:			
Project #:		Project Owner:		City:	0)		
ame:	20220813-	1610-completions		State: Zip:	Mr.		
2	Redbud 8	Z		Phone #:			_
Dania Nama	1	TURNER		Fax #:			_
FOR LAB USE ONLY	M. Sold Street		P. MATRIX	PRESERV. SAMPLING	,		
Lab I.D. H77.4754	Sample I.D.	le I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	Chloride TPH (Gir		
	Redbut Topsail DI	10 liasday			10:00 V V		
PLEASE NOTE: Liability an analyses. All claims including	d Damages. Cardinal's liability in those for negligence and a	y and client's exclusive remedy ny other cause whatsoever shal	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligance and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligance and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	t or tort, shall be limited to the armount paid of received by Cardinal within 30 days after loss of use, or loss of profits incurred by c	by the client for the completion of the applicable lent, its subsidieries,		
affiliates or successors arising Relinquished By:	g out of or related to the perf	ormance of services hereunder by Cardinal, re Date: 0 022 Rece	by Cardinal, regardless of whether such claim Received By:	her such claim is based upon any of the above seaso to	Verbal Result:	Add'I Phone #: vide Email address:	
Relinquished By:		Date:	Received By:	J. Wall	REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	ircle One) Bus - Other:	Observed Temp. °C 4,3	°C 4,3 Sample Condition Cool Intact Cool Intact Cool Intact Cool Intact Cool Integration Co	tion CHECKED BY: (Initials)	Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor -0.5°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C	
Campion or -	-					1	

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

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 152080

CONDITIONS

	0.000
Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	152080
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/17/2022