

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 149926

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 149926
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	20221002-0859-water Lucid Riser
Date Release Discovered	10/02/2022
Surface Owner	State

Incident Details	
<i>Please answer all of the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 56 BBL Recovered: 0 BBL Lost: 56 BBL
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 149926

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 149926
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Andrew Parker
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher; Enviro OCD
If YES, was immediate notice given to the OCD, when	10/02/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Email
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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ACKNOWLEDGMENTS

Action 149926

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 149926
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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CONDITIONS

Action 149926

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 149926
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
aparker1969	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/10/2022

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State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2228349573
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Ameredev Operating, LLC	OGRID: 372224
Contact Name: Shane M ^c Neely	Contact Telephone: (737) 300-4700
Contact email: smcneely@ameredev.com	Incident # (assigned by OCD) nAPP2228349573
Contact mailing address: 2901 Via Fortuna, Suite 600 Austin, Texas 78746	

Location of Release Source

Latitude 32.0376166 _____ Longitude -103.2785371 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 20221002-0859-water Lucid Riser	Site Type Pipeline ROW
Date Release Discovered: October 2, 2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	16	26S	36E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☒ Private (Name: State/ NLG South Ranch _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 56 bbls	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

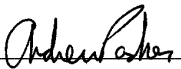
Cause of Release: Failure of polypile at riser.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. Email to NMOCD on 10/2/2022 by Andrew Parker	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Andrew Parker</u>	Title: <u>Env. Scientist</u>
Signature: <u></u>	Date: <u>October 5, 2022</u>
email: <u>aparker@ameredev.com</u>	Telephone: <u>970-570-9535</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>12/28/2022</u>

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	9070.38
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]	317.5
		[gal]	2374.8
		Barrels	56.5

From GIS	
Sq. Ft	11337.97
Depth (ft)	0.8
Cu. Ft	9070.376

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Site Assessment/Characterization

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

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

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

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

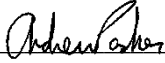
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2228349573
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: Andrew ParkerTitle: Env. ScientistSignature: Date: December 28, 2022email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn HarimonDate: 12/28/2022

Incident ID	nAPP2228349573
District RP	
Facility ID	
Application ID	

Remediation Plan

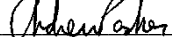

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: December 28, 2022email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn Harimon Date: 12/28/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 01/24/2023



Ameredev II, LLC

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

December 28, 2022

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

RE: Closure Report and Deferral Request
Incident ID: nAPP2228349573
Lucid Riser
AEP #: 20221002-0859-water

NMOCD:

Ameredev Operating submits this deferral request for the above referenced incident. We respectfully ask NMOCD for

1. Remediation deferral around production equipment and utilities within the right-of-way (ROW).
2. Ameredev has completed remediation and restoration of all other areas off-site, within the right-of-way, to meet regulatory closure criteria.

Included in this report is the characterization data and remediation activities for incident number nAPP2228349573. The release occurred on October 2, 2022 from failure of a polyline at riser. The calculated volume of released produced water was 56.5 barrels. The release occurred offsite on a pipeline right-of-way (ROW) for oil and gas operations. The release is located on State and Fee surface. The release did not impact surface or groundwater. Communications, including notification of major release, are included in Appendix A.

Figure 1 (included in Figures section following this text) shows the source of the release at the booster pump. Portions of the release flowed into an open trench under construction for future pipeline installation. Depth of the pipeline trench is approximately 4.5-feet.

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

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 initially determined by visual observations. The release extent mapping utilized GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the Lucid Riser, pipeline ROW, production equipment, and nearby utilities. The source of the release is located at 32.0376166, -103.2785371 (Lat, Long; NAD83). The release extent covered an area of approximately 11,377 sq. ft.

1.2. Depth to Ground Water

The depth to water well nearest to the release area is mapped on Plate 2:

- MISC-416 (J-00051 POD 2) is located 0.42-miles northwest from the release. Depth of the water is noted as 270-feet. The well was drilled for exploratory purposes and plugged. The DTW information is included in the well plugging plan presented in Appendix B.

1.3. Wellhead Protection Area

Plate 3 shows that the release extent is:

- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile private and domestic water sources (wells and springs).
- Not within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes
- Not within 1000 feet of any other fresh water well or spring.

1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is:

- Not within ½ mile of a significant water course.
- 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).

12/28/2022

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

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 a ROW used for oil and gas operations.

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

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

And the Dune land lithology as

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

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

2. Remediation & Restoration

The release extent was divided into sample grids not representing an area greater than 200 sq ft. A soil sample was collected from each off-site grid base and along excavation walls for laboratory analysis of chloride, TPH, Benzene, and BTEX. In sample grids where field screening suggested that Closure Criteria were met, samples were obtained for delineation. Included in Appendix A is the 48-hour sampling notification.

Ameredev continued to excavate the release extent until the bases and walls met Closure Criteria per Table 1 of 19.15.29 NMAC as defined below. In sample grids where analysis of delineation samples met Closure Criteria, excavation was not required. Ameredev respectfully asks for deferral (discussed in Section 3) around areas of production equipment and utilities that would cause destabilization or major facility deconstruction.

- For the release areas off-site 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

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

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

- Plates 10a and 10b show the sample grid layout with square footage.
- Plates 11a and 11b show the confirmation/delineation sample locations.
- Table A shows the coordinates of the sample points.
- Table B presents a summary of analytical.
- Appendix C contains the Laboratory Certificates of Analysis

Figures 2 through 8 are photographs that are representative of remedial excavation activities.

3. Deferral Request

Ameredev Operating respectfully asks NMOCD for deferral of remediation of the area immediately surrounding production equipment and utilities where such equipment prevented complete remediation without major facility deconstruction or destabilization as well as risking human health.

Deferral request meets criteria as defined in 19.15.29.12.C.(2):

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

The areas within production equipment, where deferral is requested, the top 0.25-feet of impacted material was excavated to remove the mass load of chloride. The material was hauled off-site to an approved disposal facility. The release extent within and surrounding the deferred area was comprehensively sampled for vertical and horizontal delineation to support deferral request.

Remediation deferral is requested where:

- Production equipment (Figure 2 through 5) prevented complete remediation of all or a portion of base grids
 - GS-10 • GS-19
 - GS-13 • GS-23
 - GS-14 • GS-25
 - GS-18 • GS-26.
- A solar panel prevented remediation at risk of destabilization that includes base grid GS-25.

12/28/2022

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

- A light pole (Figure 2), critical for remote nighttime monitoring of the pipeline riser, prevented complete remediation at risk for destabilization including portions of base grids GS-31 and GS-32. This area was delineated with base confirmation samples GS-30, GS-31 and GS-32.

Plates 10a and 11a show the areas described above as "Remediation Deferred/Production Equipment" in relation to sample grids and sample points.

Figures 9 and 10 represent final surface restoration. Approximately 806 cu. yds. of material was excavated and hauled off-site to an approved disposal facility.

The Off-Site/ROW areas were remediated and reclaimed per 19.15.29.13 A-D NMAC. Reseeding will occur at the next favorable growing season. The release extent within the deferred areas with production equipment/utilities will be remediated, restored, and reclaimed per 19.15.29.13.A-D NMAC when the production equipment is no longer in-use for oil and gas operations.

Please contact me with any questions.

Sincerely,
Ameredev II, LLC



Andrew Parker
Env. Scientist

12/28/2022

Figures



Ameredev II, LLC



Figure 1: Image from remote camera the morning of the release. The pipeline trench under construction is visible in photo foreground. Remote camera is viewing north-northeast. The booster pump was removed during remediation. 10/02/2022. 32.0373624, -103.2785949



Figure 2: Photograph of deferral request area of production equipment and utilities. Photograph is viewing north-northeast. 11/22/2022. 32.0373064, -103.2786517.



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Pipeline Trench

Figure 3: Excavation around pipeline riser, solar panel, and supporting utilities. Photo is viewing northwest. 11/22/2022. 32.0375283, -103.2785425.



Figure 4: Photo of excavation at northern end of pipeline construction trench. Photo is viewing south. Utility equipment is visible photo right. 11/17/2022. 32.0376767, -103.2785560



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Figure 5: Photo of pipeline construction trench, viewing north. The trench was excavated prior to the release. 11/17/2022. 32.0376751, -103.2785449



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Figure 6: Photo viewing northeast from the southeast excavation extent. The remote camera is visible on the utility pole near the top of the photo. 11/17/2022. 32.0367557, -103.2788136



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Figure 7: The southwest excavation extent is visible in photo background. Photo is viewing southwest. 11/22/2022. 32.0376614, -103.2786283



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Figure 8: Northern excavation extent. Photo is viewing south-southwest. 11/22/2022. 32.0376958, -103.2784631



Figure 9: View of reclamation from northern extent, facing south. 12/09/2022. 32.0378897, -103.2785452



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Figure 10: View of southern release extent reclamation facing southeast. 12/09/2022. 32.0373856, -103.2787455

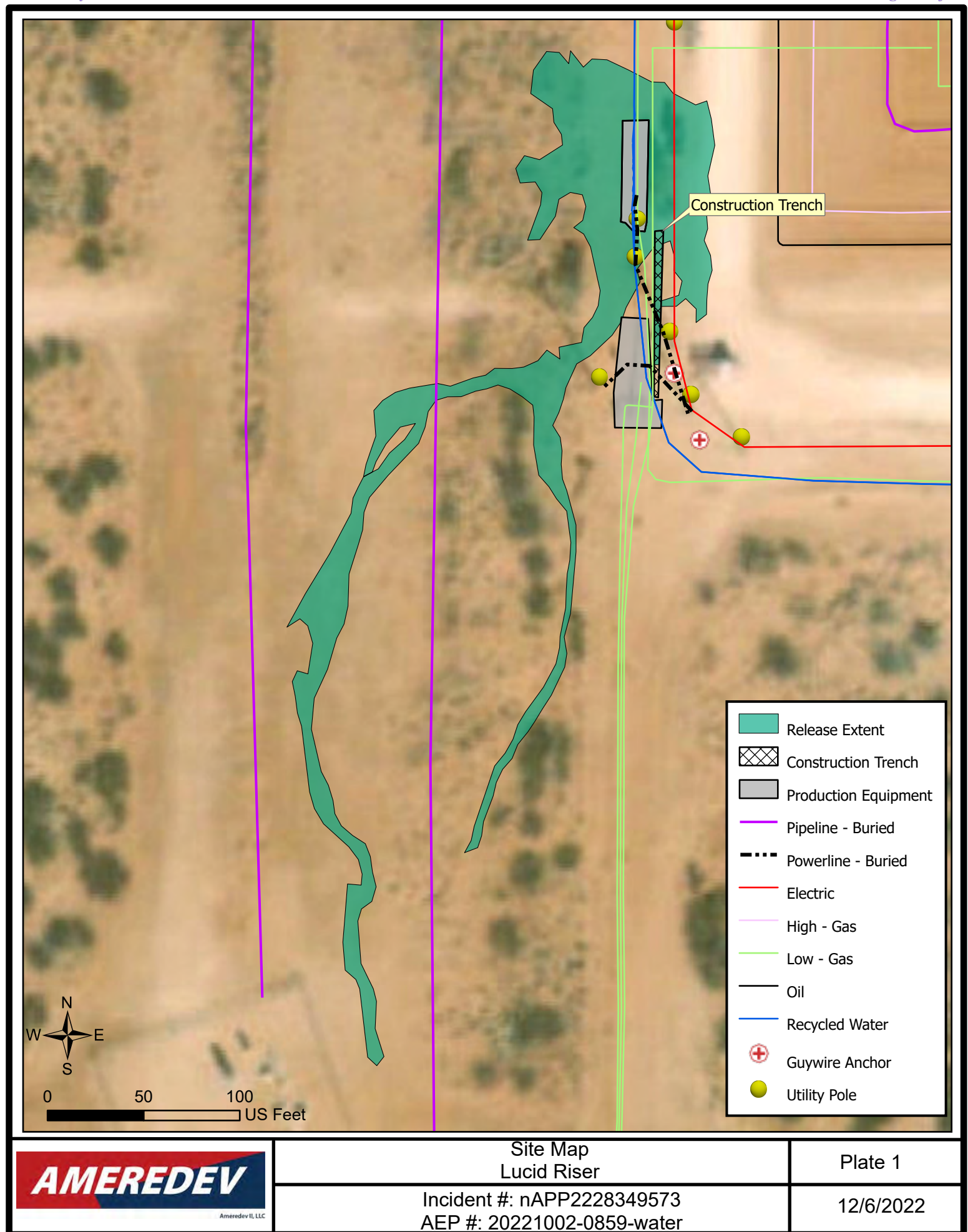


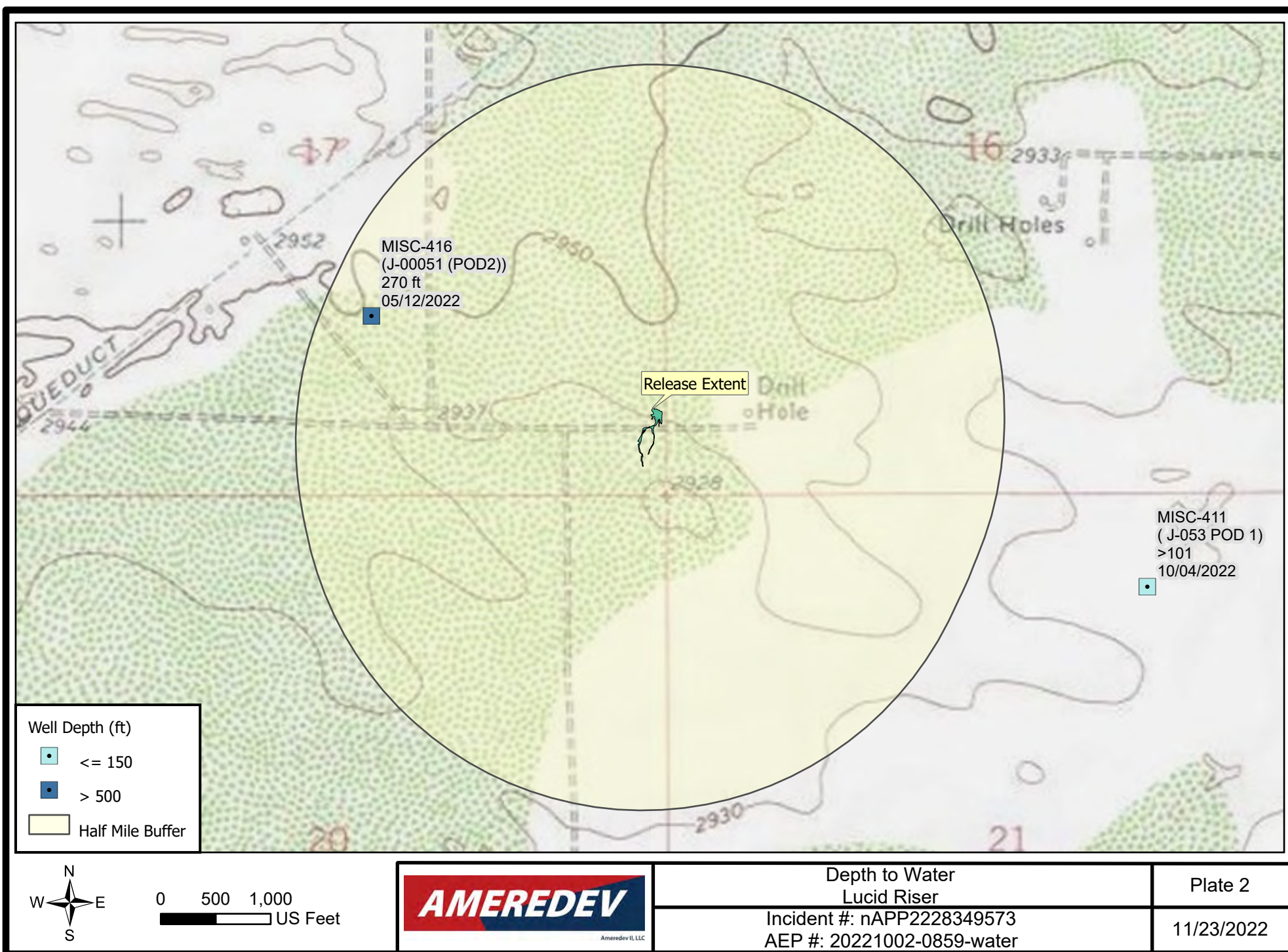
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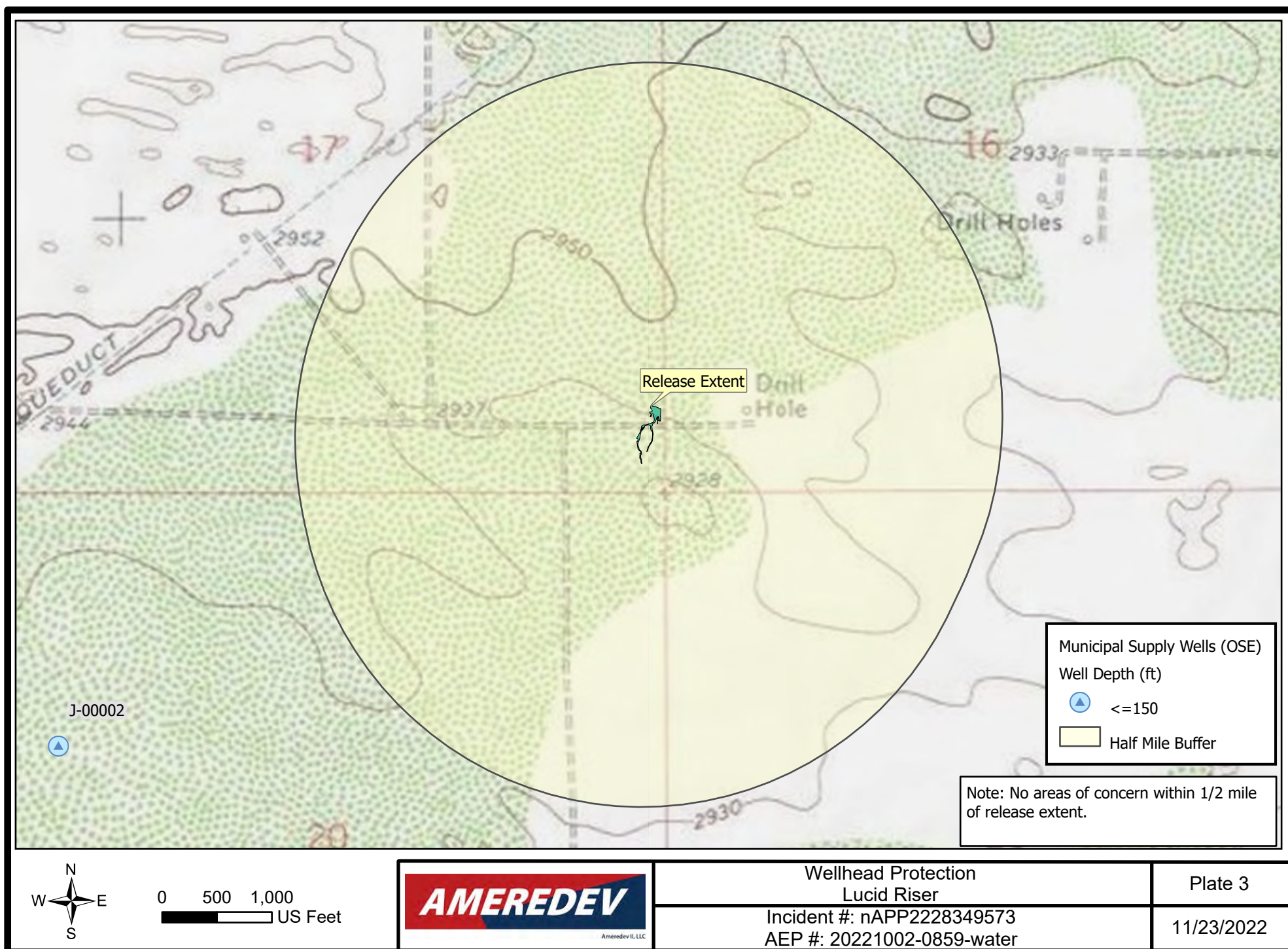
Plates

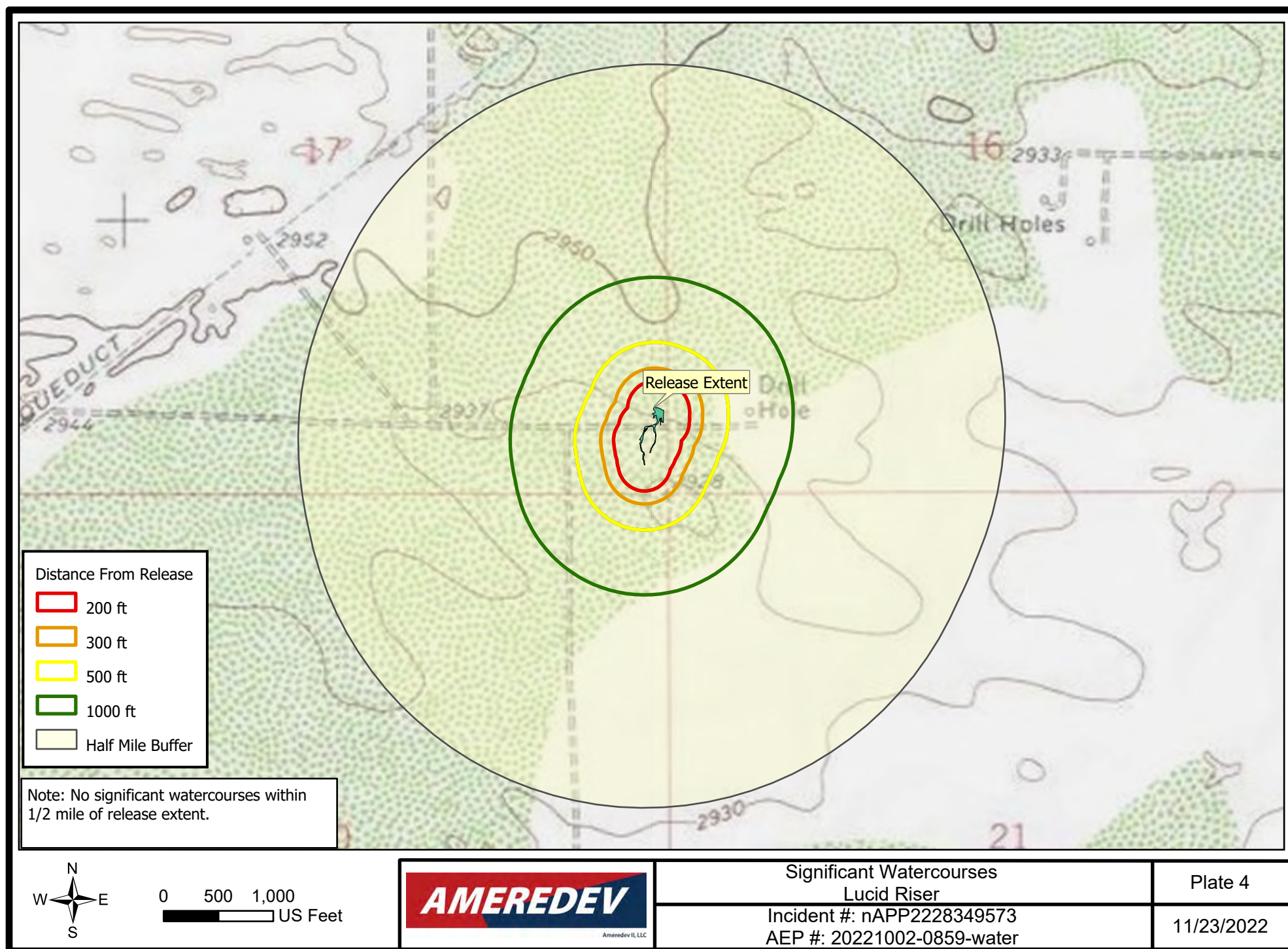


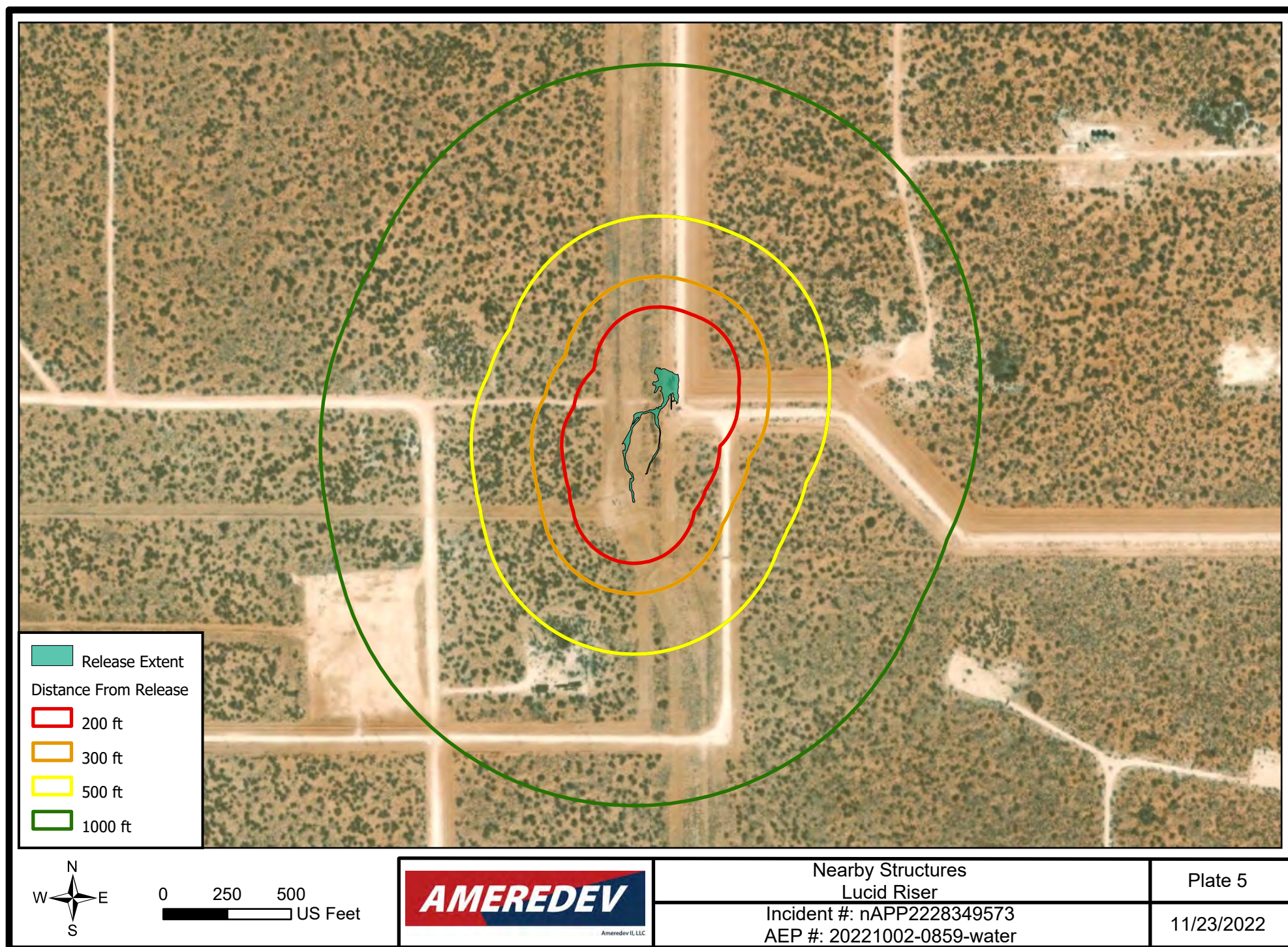
Ameredev II, LLC

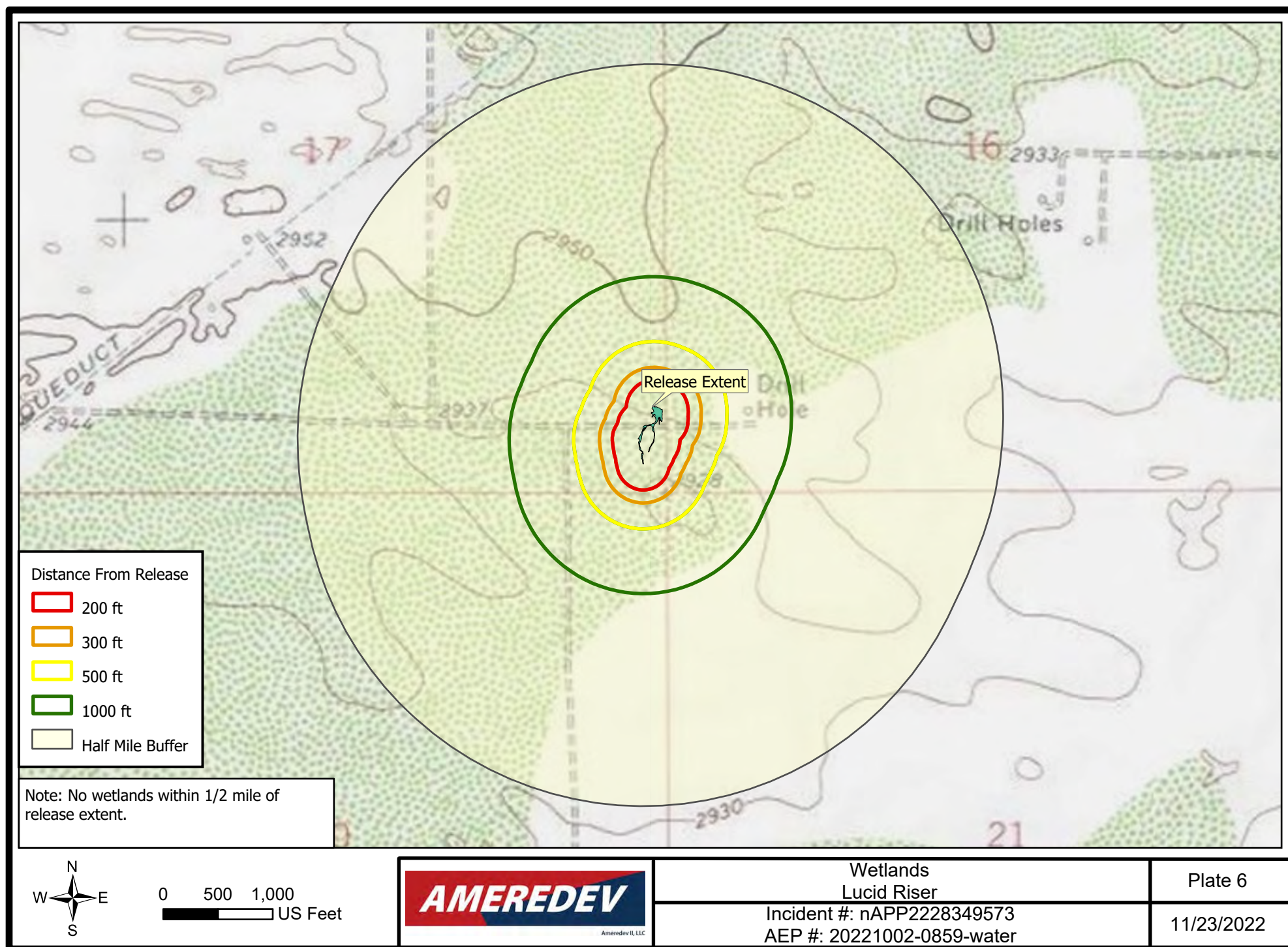


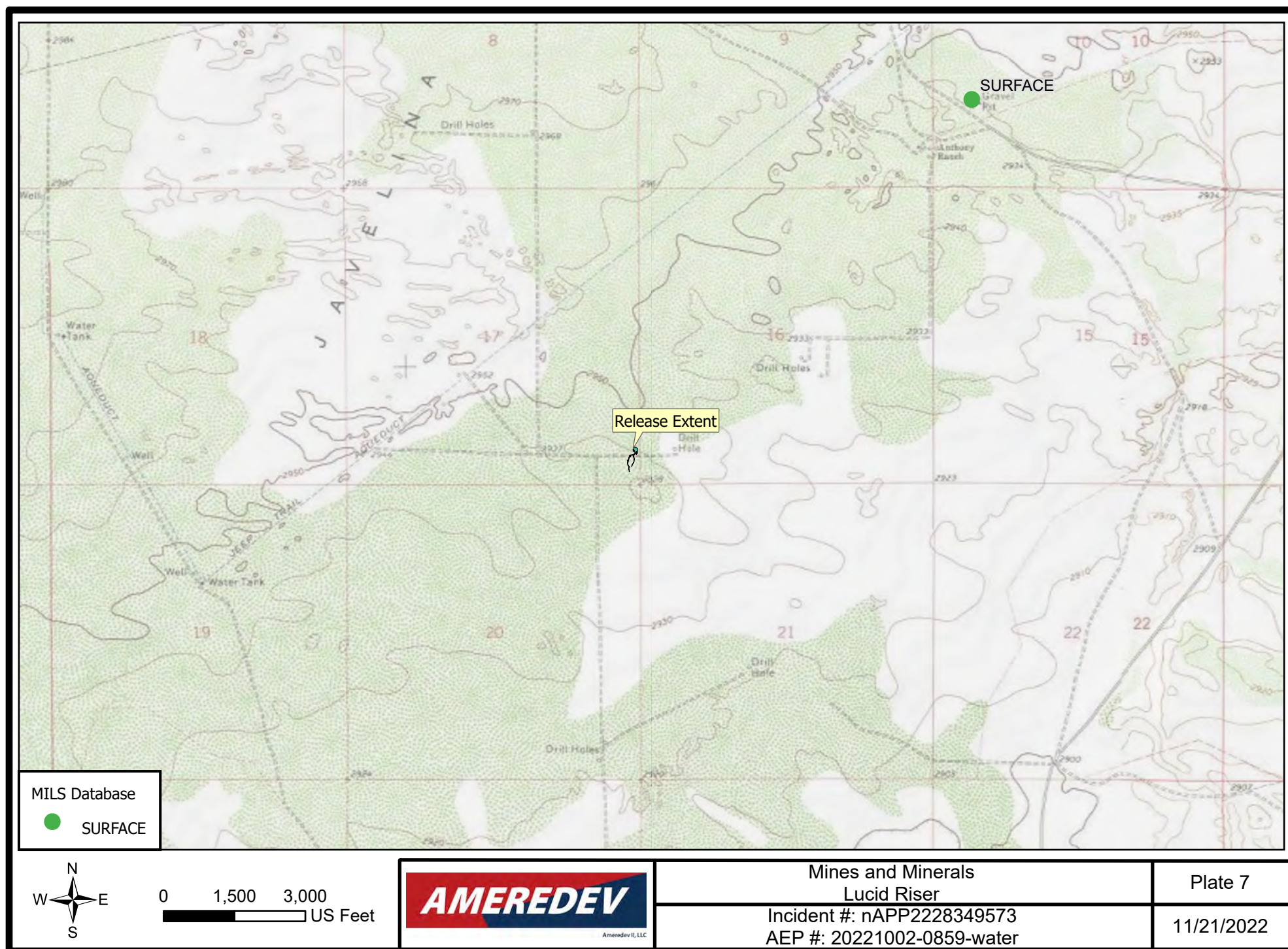


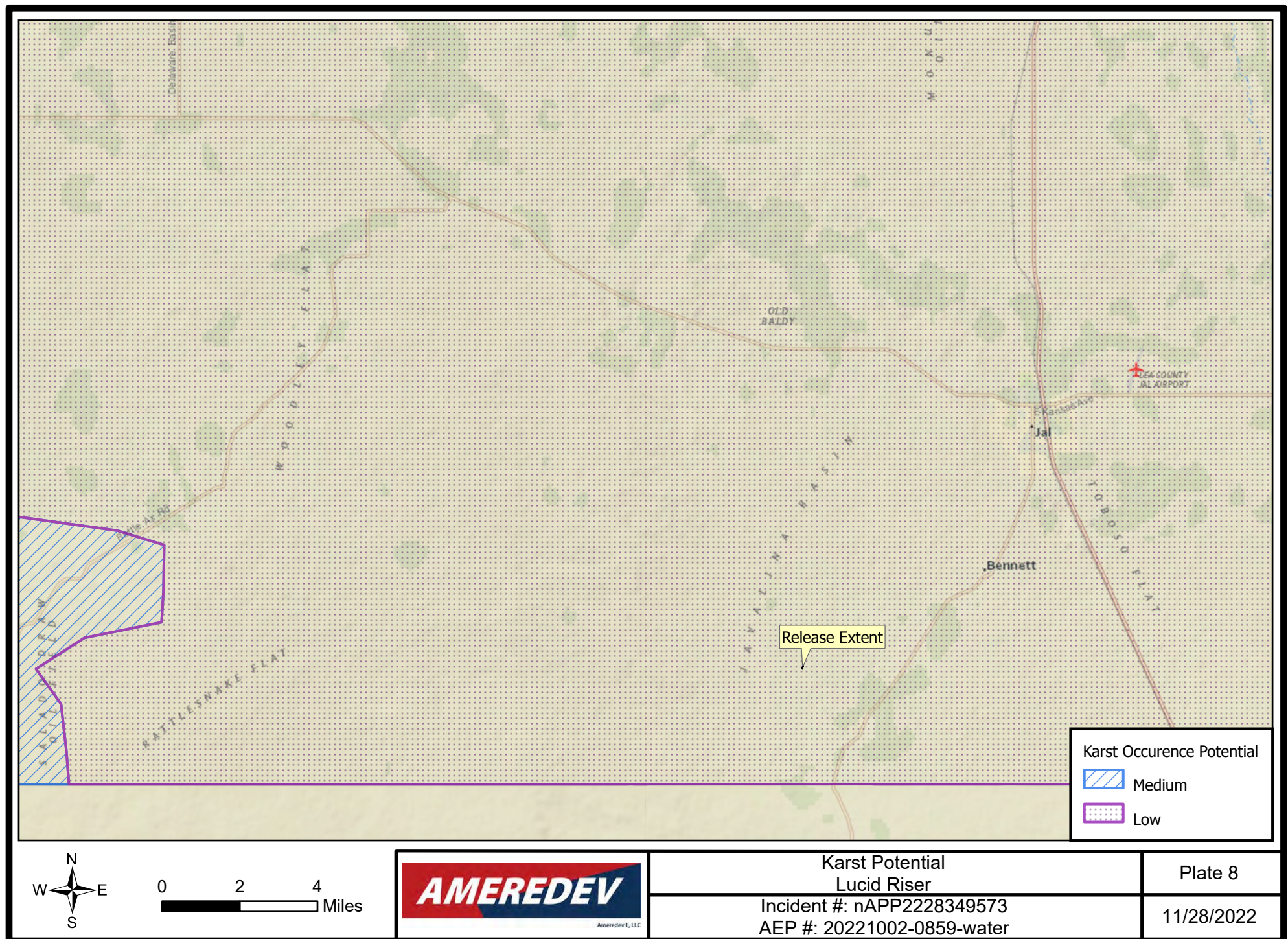


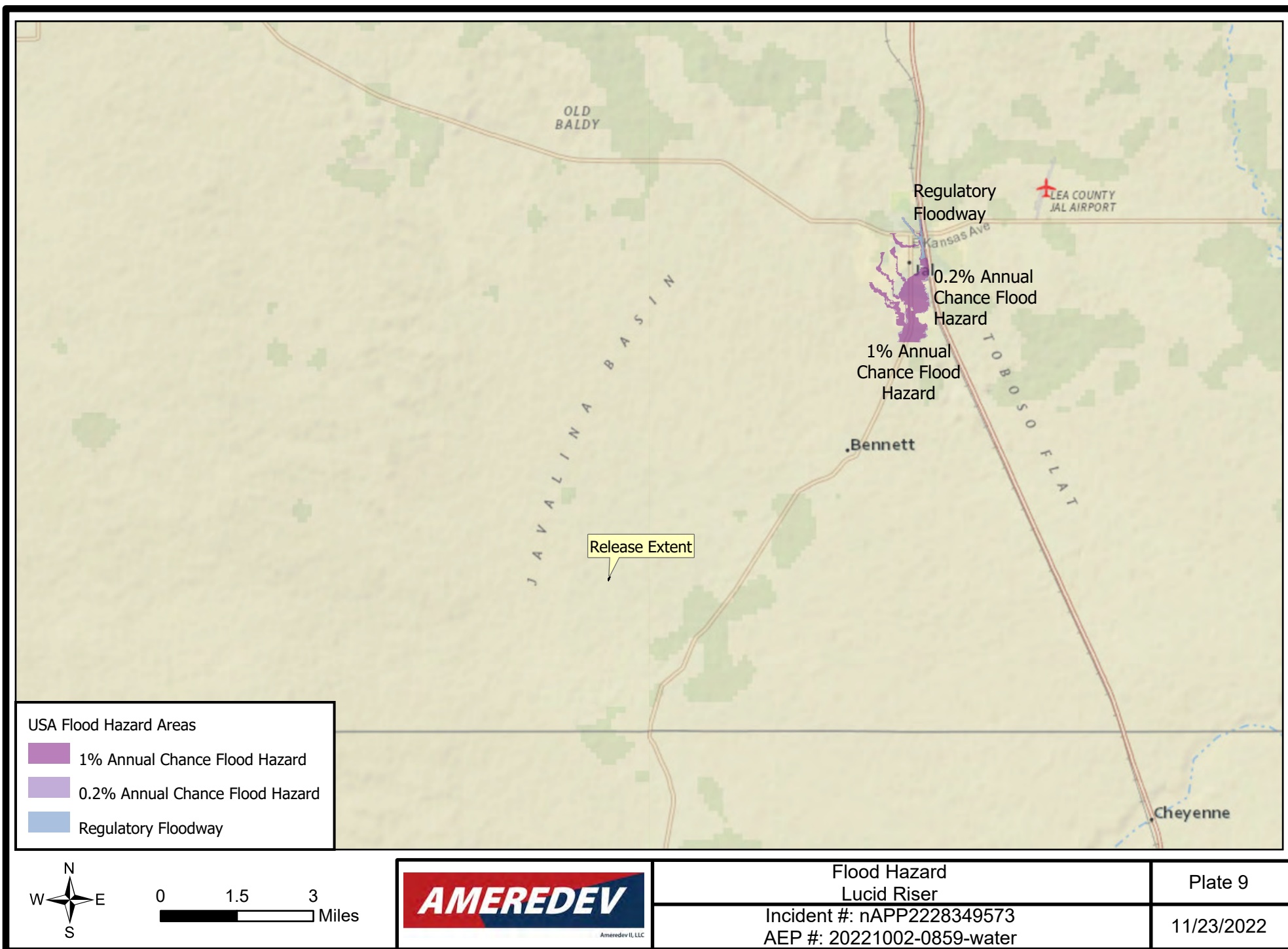


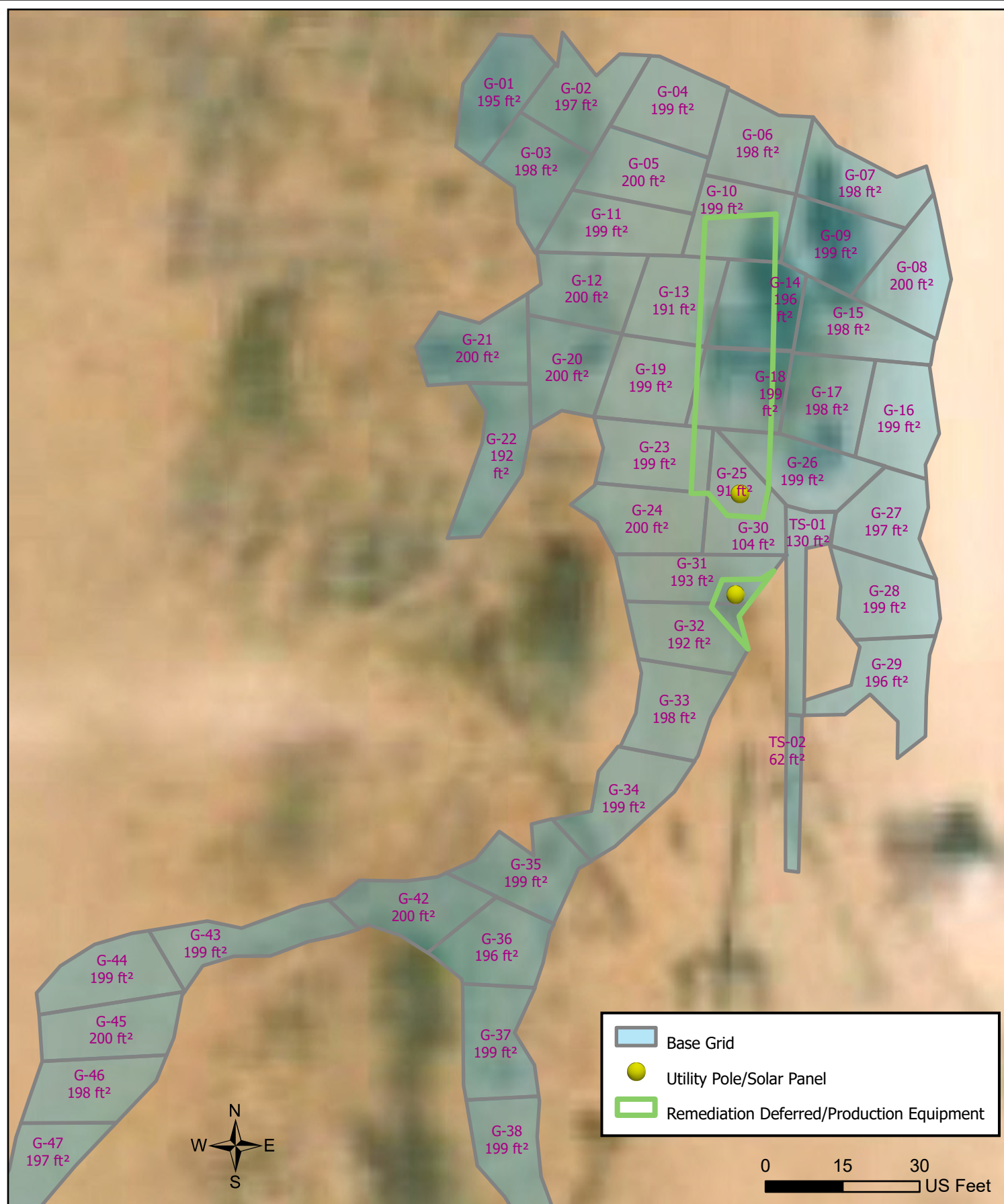










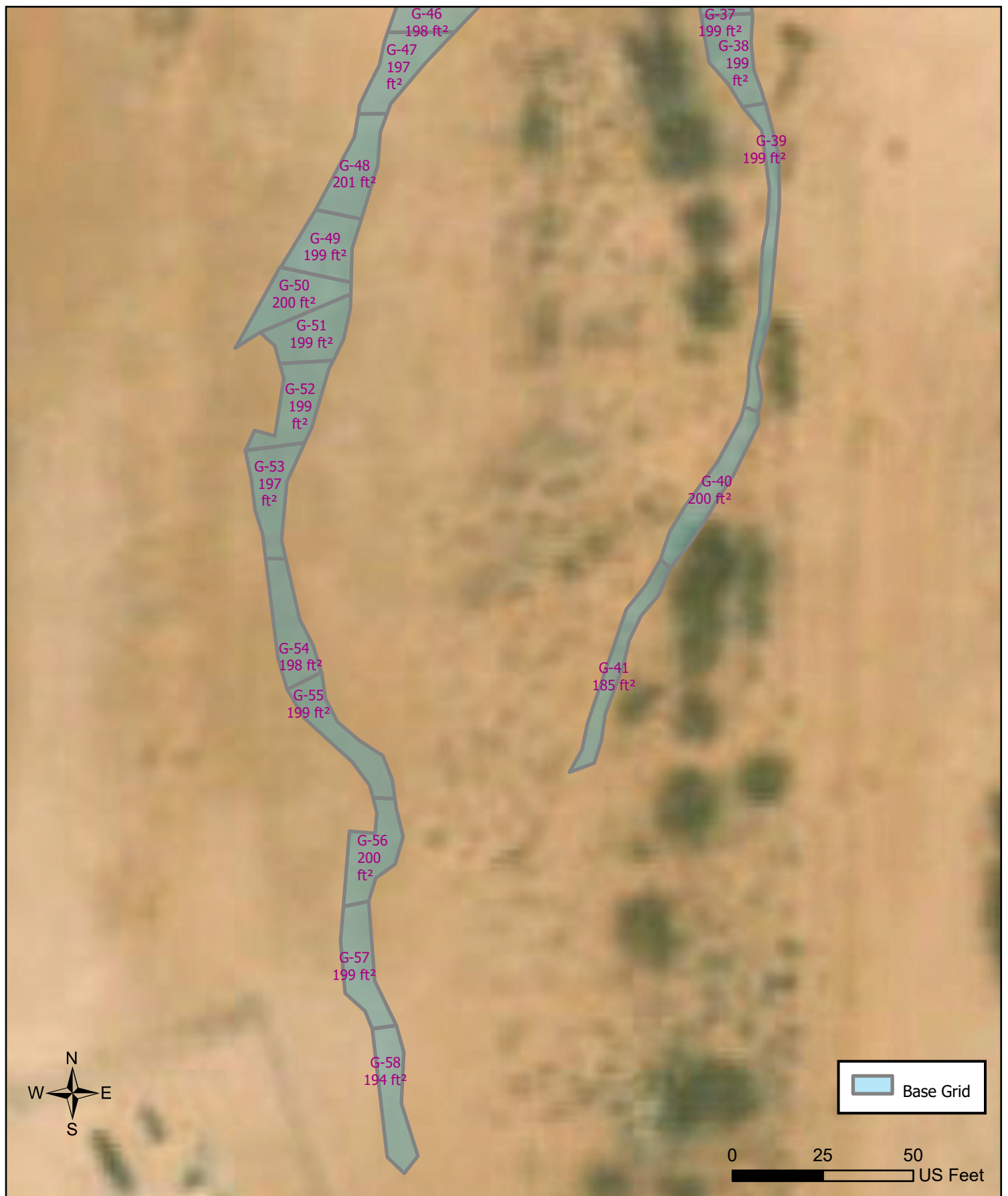


Sample Grid North
Lucid Riser

Plate 10a

Incident #: 2228349573
AEP #: 20221001-0859-water

11/28/2022

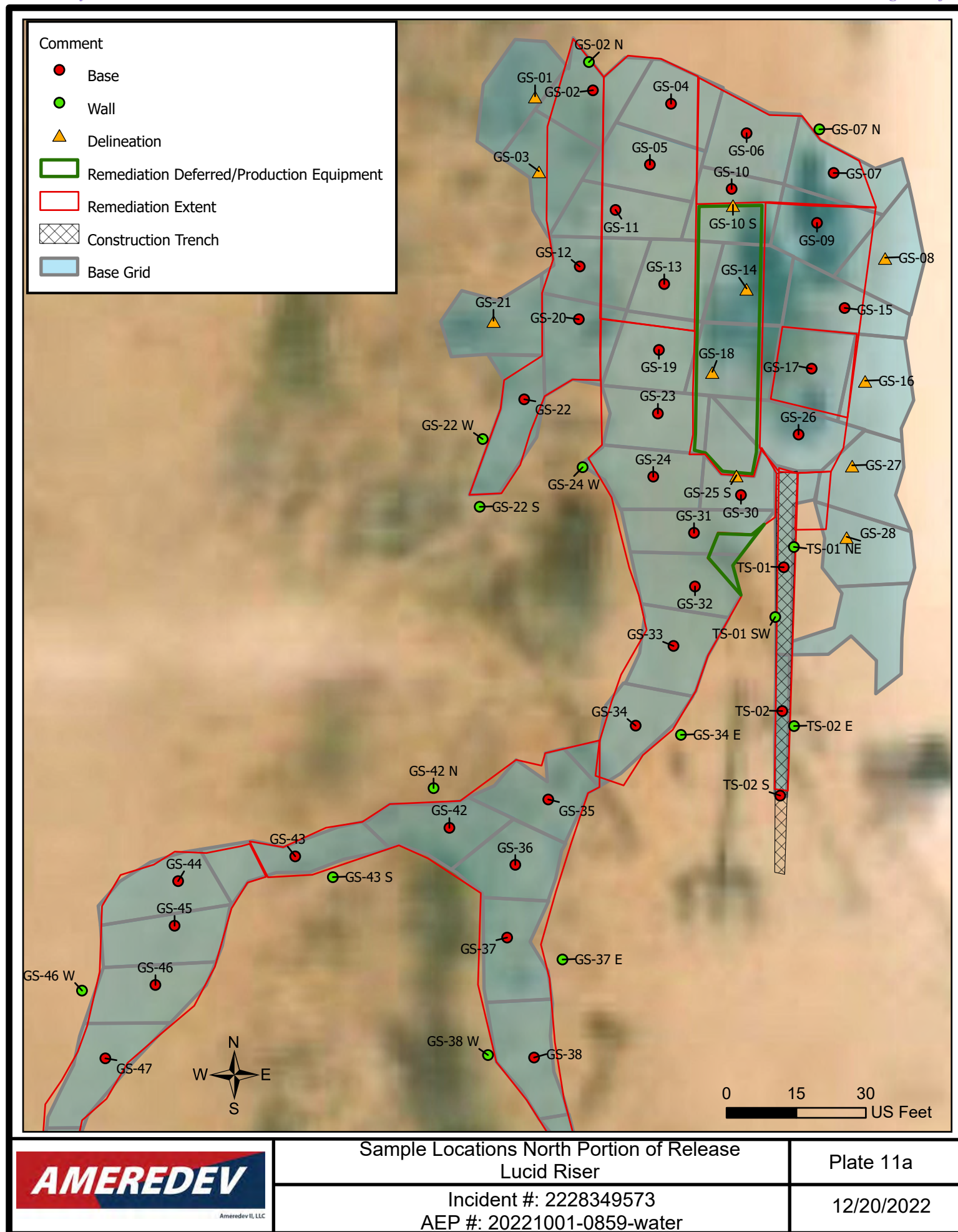


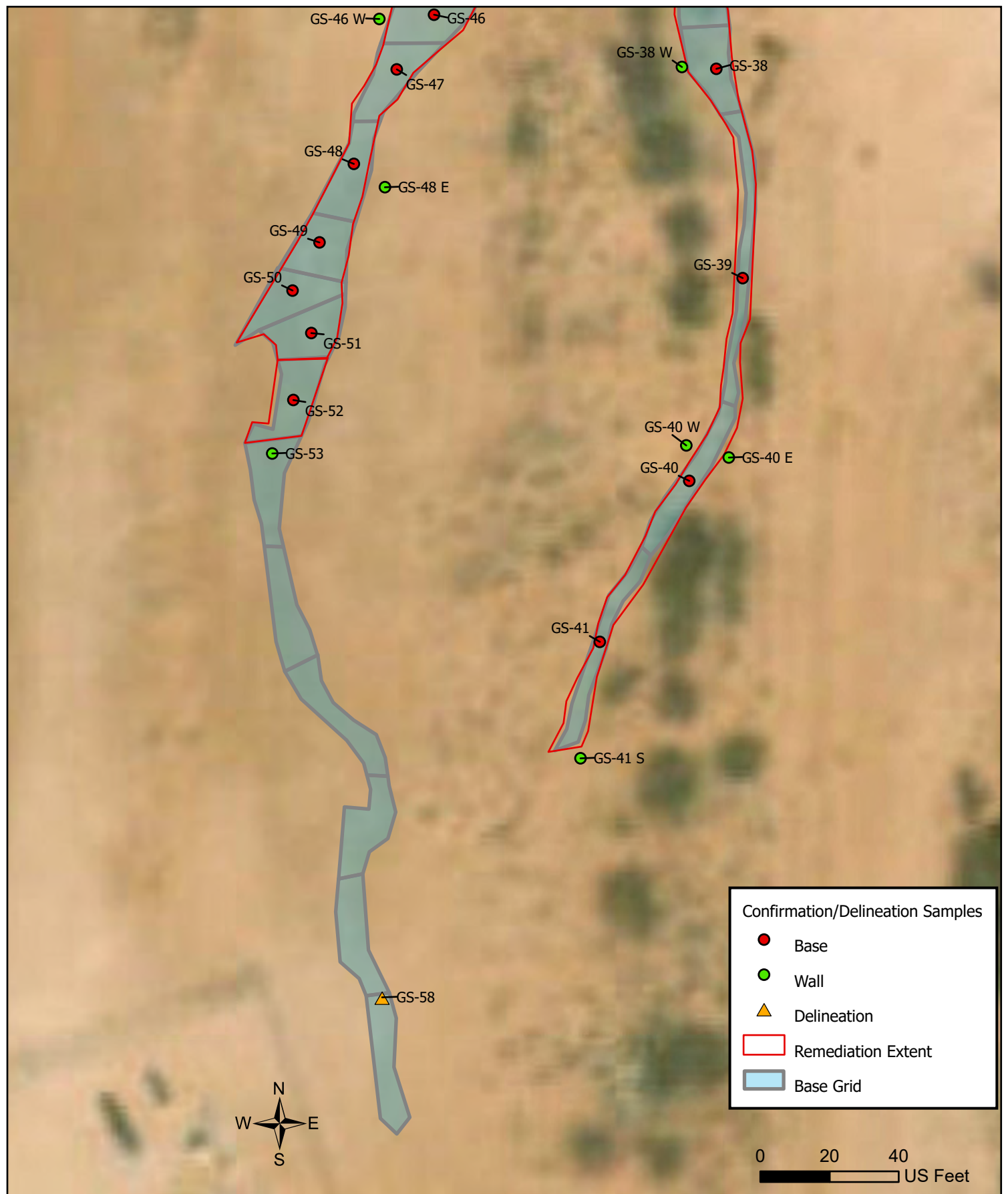
Sample Grid South
Lucid Riser

Plate 10b

Incident #: 2228349573
AEP #: 20221001-0859-water

11/28/2022





Sample Locations South Portion of Release
Lucid Riser

Plate 11b

Incident #: 2228349573
AEP #: 20221001-0859-water

12/20/2022

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Tables



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Sample Points	Latitude	Longitude
GS-01	32.03773152	-103.27866237
GS-02	32.03773341	-103.27862217
GS-03	32.03768986	-103.27864597
GS-04	32.03772669	-103.27857608
GS-05	32.03769626	-103.27858855
GS-06	32.03771195	-103.27853151
GS-07	32.03769210	-103.27848013
GS-07 N	32.03771392	-103.27848856
GS-08	32.03764970	-103.27844978
GS-09	32.03766712	-103.27848995
GS-10	32.03768409	-103.27854033
GS-10 S	32.03767615	-103.27853956
GS-11	32.03767359	-103.27860882
GS-12	32.03764588	-103.27861854
GS-13	32.03763652	-103.27858011
GS-14	32.03763427	-103.27853152
GS-15	32.03762453	-103.27847366
GS-16	32.03758821	-103.27846159
GS-17	32.03759420	-103.27849309
GS-18	32.03759263	-103.27855176
GS-19	32.03760357	-103.27858320
GS-20	32.03761892	-103.27863047
GS-21	32.03761817	-103.27868082
GS-22	32.03757885	-103.27866271
GS-22 S	32.03752511	-103.27868898
GS-22 W	32.03755899	-103.27868720
GS-23	32.03757177	-103.27858385
GS-24	32.03754019	-103.27858657
GS-24 W	32.03754491	-103.27862826
GS-25 S	32.03754092	-103.27853752
GS-26	32.03756124	-103.27850082
GS-27	32.03754586	-103.27846924
GS-28	32.03751009	-103.27847251
GS-30	32.03753099	-103.27853482
GS-31	32.03751208	-103.27856254
GS-32	32.03748526	-103.27856196
GS-33	32.03745551	-103.27857462
GS-34	32.03741565	-103.27859695
GS-34 E	32.03741103	-103.27857023
GS-35	32.03737870	-103.27864852
GS-36	32.03734603	-103.27866797
GS-37	32.03730964	-103.27867279
GS-37 E	32.03729868	-103.27864014
GS-38	32.03724964	-103.27865689
GS-38 W	32.03725088	-103.27868408
GS-39	32.03710913	-103.27863600
GS-40	32.03697303	-103.27867829
GS-40 E	32.03698873	-103.27864699
GS-40 W	32.03699684	-103.27868064
GS-41	32.03686496	-103.27874911
GS-41 S	32.03678682	-103.27876438
GS-42	32.03736453	-103.27870685

Sample Points	Latitude	Longitude
GS-42 N	32.03738438	-103.27871619
GS-43	32.03735024	-103.27879783
GS-43 S	32.03733985	-103.27877564
GS-44	32.03733787	-103.27886692
GS-45	32.03731556	-103.27886902
GS-46	32.03728594	-103.27888034
GS-46 W	32.03728311	-103.27892364
GS-47	32.03724923	-103.27890986
GS-48	32.03718583	-103.27894381
GS-48 E	32.03717019	-103.27891918
GS-49	32.03713311	-103.27897100
GS-50	32.03710077	-103.27899234
GS-51	32.03707228	-103.27897747
GS-52	32.03702733	-103.27899169
GS-53	32.03699140	-103.27900841
GS-58	32.03662636	-103.27892147
TS-01	32.03749487	-103.27850955
TS-01 NE	32.03750499	-103.27850357
TS-01 SW	32.03746997	-103.27851458
TS-02	32.03742293	-103.27851043
TS-02 E	32.03741542	-103.27850348
TS-02 S	32.03738062	-103.27851168

December 20, 2022

Table B
Summary of Analytical

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
TS-01	10/2/2022	5			ROW	9330	<134.1	<144.1	0.174	1.7	Removed	Cardinal	H224596
TS-01	11/18/2022	5.5			ROW	4680	<42.8	<52.8	<0.05	<0.30	Confirmation	Cardinal	H225474
TS-01 NE	10/2/2022		0	4	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224596
TS-01 NE	10/2/2022	4.5			ROW	4320	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224596
TS-01 SW	10/2/2022		0	4	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224596
TS-01 SW	10/2/2022	4.5			ROW	5840	<28	<38	<0.05	<0.30	Confirmation	Cardinal	H224596
TS-02	10/2/2022	5			ROW	12300	<20	<30	<0.05	<0.30	Removed	Cardinal	H224596
TS-02	11/18/2022	5.5			ROW	4480	<55.1	<65.1	<0.05	<0.30	Confirmation	Cardinal	H225474
TS-02 E	10/2/2022		0	4	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224596
TS-02 E	10/2/2022	4.5			ROW	5400	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224596
TS-02 S	10/2/2022	5			ROW	128	<20	<30	<0.05	<0.30	Confirmation/Delineation	Cardinal	H224596
GS-01	11/22/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225527
GS-02	11/22/2022	2			ROW	<16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-02 N	11/22/2022		0	2	ROW	<16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-03	11/22/2022		0	2	ROW	<16	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225527
GS-04	11/18/2022	2			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-05	11/18/2022	2			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-06	11/18/2022	1			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-07	11/18/2022	1			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-07 N	11/18/2022		0	1	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-08	11/18/2022		0	2	ROW	96	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-08	11/18/2022		2	3	ROW	32	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-09	11/18/2022	3			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-10	11/22/2022	1			ROW	<16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-10 S			0	0.25	ROW						Removed		
GS-10 S	11/22/2022		0.25	1	ROW	32	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225527
GS-11	11/18/2022	2			ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-12	11/22/2022	2			ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-13	11/18/2022	2			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-14			0	0.25	ROW						Removed		
GS-14	11/22/2022		0.25	2	ROW	608	<20	<30	<0.05	<0.30	Core Delineation	Cardinal	H225527
GS-14	11/22/2022		2	4	ROW	32	<20	<30	<0.05	<0.30	Core Delineation	Cardinal	H225527
GS-15	11/18/2022	3			ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-16	11/18/2022		0	2	ROW	64	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-16	11/18/2022		2	3	ROW	80	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-17	11/18/2022	3			ROW	64	<6594	<6623.9	<0.05	<0.30	Removed	Cardinal	H225474
GS-17	11/30/2022	4.5			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225606
GS-18			0	0.25	ROW						Removed		

December 20, 2022

Table B
Summary of Analytical

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
GS-18	11/22/2022		0.25	2	ROW	528	<20	<30	<0.05	<0.30	Core Delineation	Cardinal	H225527
GS-18	11/22/2022		2	4	ROW	32	<20	<30	<0.05	<0.30	Core Delineation	Cardinal	H225527
GS-19	11/18/2022	2.5			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-20	11/22/2022	2			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-21	11/22/2022		0	2	ROW	16	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225527
GS-22	11/22/2022	2			ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-22 S	11/22/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-22 W	11/22/2022		0	2	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-23	11/18/2022	2.5			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-24	11/18/2022	2.5			ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-24 W	11/22/2022		0	2	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-25 S	11/18/2022		0.25	2.5	ROW	1890	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-26	11/18/2022	3			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-27	11/18/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-28	11/18/2022		0	2	ROW	16	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225474
GS-30	11/18/2022	2.5			ROW	32	<20	<30	<0.05	<0.30	Confirmation/Delineation	Cardinal	H225474
GS-31	11/18/2022	2.5			ROW	48	<20	<30	<0.05	<0.30	Confirmation/Delineation	Cardinal	H225474
GS-32	11/18/2022	2.5			ROW	48	<28	<38	<0.05	<0.30	Confirmation/Delineation	Cardinal	H225474
GS-33	11/18/2022	2.5			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-34	11/18/2022	2.5			ROW	96	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-34 E	11/18/2022		0	2.5	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225474
GS-35	11/15/2022	4.25			ROW	5200	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-35	11/22/2022	5.5			ROW	1650	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H225526
GS-35	11/22/2022	8.5			ROW	576	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H225526
GS-36	11/15/2022	4.25			ROW	4240	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-37	11/15/2022	4.25			ROW	320	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-37 E	11/15/2022		0	2	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-37 E	11/15/2022		2	4	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-38	11/15/2022	4.25			ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-38 W	11/22/2022		0	2	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-38 W	11/22/2022		2	4	ROW	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-39	11/15/2022	4.25			ROW	3440	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-40	11/15/2022	4.25			ROW	1090	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-40 E	11/22/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-40 E	11/22/2022		2	4	ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225527
GS-40 W	11/15/2022		0	2	ROW	96	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-40 W	11/15/2022		2	4	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-41	11/15/2022	4.25			ROW	848	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-41 S	11/15/2022		0	2	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-41 S	11/15/2022		2	4	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402

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December 20, 2022

Table B
Summary of Analytical

Incident ID: nAPP2228349573

Lucid Riser

AEP #: 20221002-0859-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab	Lab #
												(Hall/Cardinal)	
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
GS-42	11/15/2022	4.25			ROW	6800	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-42	11/22/2022	5.5			ROW	1780	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225525
GS-42	11/22/2022	6.5			ROW	128	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225525
GS-42	11/22/2022	7.5			ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225525
GS-42 N	11/15/2022		0	2	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-42 N	11/15/2022		2	4	ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-43	11/15/2022	4.25			ROW	3640	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-43 S	11/15/2022		0	2	ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-43 S	11/15/2022		2	4	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-44	11/15/2022	2.5			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-45	11/15/2022	2.5			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-46	11/15/2022	2.5			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-46 W	11/15/2022		0	2	ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-47	11/15/2022	2.5			ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-48	11/11/2022	2.5			ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225369
GS-48 E	11/15/2022		0	2	ROW	112	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225402
GS-49	11/11/2022	2.5			ROW	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225369
GS-50	11/11/2022	2.5			ROW	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225369
GS-51	11/11/2022	2.5			ROW	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225369
GS-52	11/11/2022	3			ROW	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225369
GS-53	11/11/2022		0	2	ROW	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225369
GS-53	11/11/2022		2	3	ROW	32	<20	<30	<0.05	<0.30	Confirmation/Delineation	Cardinal	H225369
GS-58	11/11/2022		0	2	ROW	48	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225369
GS-58	11/11/2022		2	3	ROW	16	<20	<30	<0.05	<0.30	Delineation	Cardinal	H225369
Backfill 01	12/7/2022					80	<20	<30	<0.05	<0.30	Backfill	Cardinal	H225829
Topsoil 01	12/7/2022					16	<20	<30	<0.05	<0.30	Topsoil	Cardinal	H225829

Appendix A

Communications



Ameredeve II, LLC

Andrew Parker

From: Andrew Parker
Sent: Thursday, November 3, 2022 3:07 PM
To: Enviro, OCD, EMNRD
Cc: Jesus Palomares
Subject: nAPP2228349573 48 hr sampling notice Lucid Riser 20221002-0859-water

NMOCD,

Please accept this email as the 48 hour sampling notice per 19.15.29 NMAC. Remediation and sampling are to begin November 8th and will continue through the remedial activities.

AEP#: 20221002-0859-water
Location: Lucid Riser
Incident #: nAPP2228349573

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, October 10, 2022 2:46 PM
To: Andrew Parker <aparker@ameredev.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 149926

External (ocdonline@state.nm.us)

[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#) nAPP2228349573, 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 nAPP2228349573, 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

From: [Andrew Parker](#)
To: [Enviro, OCD, EMNRD](#); spills@slo.state.nm.us
Cc: [Dayeed Khan](#); [Shane McNeely](#); [Hansley Persad](#); [Laura Parker](#); [Jesus Palomares](#)
Subject: 24 hr major release notification Lucid Riser
Date: Sunday, October 2, 2022 4:38:14 PM

NMOCD,

Please accept this email as the 24-hour major release notification per 19.15.29 NMAC.

Location: Lucid Riser
UL "M", Sec. 16; T26S. R36E
103.2785371°W, 32.0376166°N
Surface: State Land

Date/Time of discovery: 10/02/2022 at 08:59 am
Treated Produced Water
Failure of polypipe at riser. Release has been stopped. Area secured.

Volume: >25 bbls
Recovered: none.

AEP#: 20221002-0859-water.

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



Appendix B

Well Logs



Ameredeve II, LLC



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

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

May 23, 2022

City of Jal
P.O. Box 340
Jal, NM 88252

RE: Well Plugging Plan of Operations for **J-51-POD1 to POD3**

Greetings:

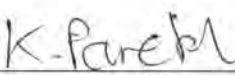
Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted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

- (1) Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.
- (2) In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor is required. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30, 19.27.4.31, 19.27.4.33 NMAC, and all specific conditions of approval. While conducting the well drilling activities, the Well Driller shall maintain a copy of the approved permit, conditions and Well Plugging Plan of Operations on-site and available for inspection upon request.
- (3) No more than 6 gallons water per 94 lb. sack Portland Cement
- (4) Any deviation from this plan must obtain an approved variance from this office prior to implementation.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link <https://www.ose.state.nm.us/Statewide/wdForms.php>.

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

Sincerely,



Kashyap Parekh
Water Resources Manager I



WELL PLUGGING PLAN OF OPERATIONS



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

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

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

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

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: Exploratory borings J-51-POD1
 Name of well owner: City of Jal LaPOD3
 Mailing address: PO Drawer 340 County: Lea
 City: Jal State: NM Zip code: 88252
 Phone number: (575) 395-3340 E-mail: mayor@cityofjal.us

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: To be contracted
 New Mexico Well Driller License No.: Unknown Expiration Date: Unknown

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

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

1) GPS Well Location: Latitude: 32 deg, 2 min, 41.5212 sec
 Longitude: -103 deg, 17 min, 7.7352 sec, NAD 83

2) Reason(s) for plugging well(s): OSE DIT MAY 20 2022 PM3:24
Exploratory borings for stratigraphic and geophysical logging only. No plan to complete the wells.

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

4) Does the well tap brackish, saline, or otherwise poor quality water? unknown If yes, provide additional detail, including analytical results and/or laboratory report(s): NA

5) Static water level: 270 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 1000 feet

- 7) Inside diameter of innermost casing: NA inches.
- 8) Casing material: NA; 6 3/4-in borehole only
- 9) The well was constructed with:
☒ an open-hole production interval, state the open interval: 0-1000 ft bgs
☐ a well screen or perforated pipe, state the screened interval(s): _____
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? No If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? N/A; unequipped If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

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

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

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

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

Grout will be placed via tremie pipe from the bottom up.
- 2) Will well head be cut-off below land surface after plugging? NA

VI. PLUGGING AND SEALING MATERIALS:

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

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 9.20 cubic yards
- 4) Type of Cement proposed: Type A Portland
- 5) Proposed cement grout mix: 5.2 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: x batch-mixed and delivered to the site
 _____ mixed on site

OSE DIT MAY 20 2022 PM 3:25

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

- 8) Additional notes and calculations:

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

This plugging plan is being submitted to accompany an application to drill 3 exploratory borings to 1000 ft. The borings will be used for lithologic and geophysical logging only. There are no plans to complete these wells.

VIII. SIGNATURE:

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

Paul Drakos

Signature of Applicant

5/12/22

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

OSE DTI MAY 20 2022 PM 3:25

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

Witness my hand and official seal this

23rd

day of

May

2022

Mike A. Hamman

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By:

K. Parekh

KASHYAP PAREKH
W.R.M. I



WD-08 Well Plugging Plan
 Version: July 31, 2019
 Page 3 of 5

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	0		
Bottom of proposed interval of grout placement (ft bgl)	1000		
Theoretical volume of grout required per interval (gallons)	1857.87		
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	5.2		
Mixed on-site or batch-mixed and delivered?	Delivered		
Grout additive 1 requested	NA		
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

OSE DII MAY 20 2022 PM3:25

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

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NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):									
<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone		<input type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 13N <input type="checkbox"/> Zone 12N		<input checked="" type="checkbox"/> Lat/Long (WGS84) (1/10 th of second)		OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant			
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
	Location 2	-103°17' 8.3652"	32° 2' 22.9308"			270	1000	9.20 yd3	N
	Location 3	-103°17' 25.0548"	32° 2' 32.4924"			270	1000	9.20 yd3	N

OSE DII MAY 20 2022 PM3:25

FOR OSE INTERNAL USE Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number:	Trn Number:
Trans Description (optional):	

Appendix C

Certificates of Analysis



Ameredev II, LLC



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

October 10, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 10/03/22 16:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 01 5FT (H224596-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.174	0.050	10/08/2022	ND	2.01	101	2.00	1.15	
Toluene*	0.734	0.050	10/08/2022	ND	2.15	107	2.00	1.33	
Ethylbenzene*	0.200	0.050	10/08/2022	ND	1.96	97.9	2.00	1.46	
Total Xylenes*	0.595	0.150	10/08/2022	ND	5.84	97.3	6.00	1.04	
Total BTX	1.70	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	10/06/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.1	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	118	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 165 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 01 NE 0-4FT (H224596-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 151 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 01 NE 4.5FT (H224596-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 150 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 01 SW 0-4FT (H224596-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 148 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 01 SW 4.5FT (H224596-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	18.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 150 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2022
 Reported: 10/10/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 10/02/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TS - 02 5FT (H224596-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12300	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 149 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 02 E 0-4FT (H224596-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 138 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/03/2022	Sampling Date:	10/02/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TS - 02 E 4.5FT (H224596-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTEx	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 146 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/03/2022
 Reported: 10/10/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 10/02/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TS - 02 S 5FT (H224596-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTEx	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/06/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 151 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

C Company Name: <u>Amerader</u>				BILL TO				ANALYSIS REQUEST							
Project Manager: <u>Andrew Parker</u>				P.O. #: <u>20221002-0859-water</u>											
Address: <u>On-File</u>				Company: <u>Amerader</u>											
City: <u>State: Zip:</u>				Attn: <u>a.parker@amerader.com</u>											
Phone #: <u>Fax #:</u>				Address: <u>State: Zip:</u>											
Project #: <u>Project Owner:</u>				City: <u>State: Zip:</u>											
Project Name: <u>20221002-0859-water</u>				Phone #: <u>Fax #:</u>											
Project Location: <u>Lucid Riser</u>															
Sampler Name: <u>Jesus Palomares</u>															
FOR LAB USE ONLY															
Lab I.D. <u>H24596</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING			
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		ACID/BASE: ICE / COOL OTHER					
1 TS-01 5ft		9		10-02		14:07		Chloride							
2 TS-01NE 0-4ft		1				14:21		TPH (Gro+Dro+Mro)							
3 TS-01NE 4.5ft						14:27		BTEX (Benzene)							
4 TS-01SW 0-4ft						14:32									
5 TS-01SW 4.5ft						14:38									
6 TS-02 5ft						14:52									
7 TS-02 0-4ft						15:09									
8 TS-02E 4.5ft						15:19									
9 TS-02S 5ft						15:43									
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Relinquished By: <u>Mr. Wm</u>				Date: <u>10-3-22</u>				Received By: <u>Wm</u>				Date: <u>10-3-22</u>			
Relinquished By: <u>Wm</u>				Date: <u>10-3-22</u>				Received By: <u>Wm</u>				Date: <u>10-3-22</u>			
Delivered By: (Circle One)				Observed Temp. °C <u>4.3</u>				Sample Condition				CHECKED BY: (Initials) <u>Wm</u>			
Sampler - UPS - Bus - Other:				Corrected Temp. °C <u>3.7</u>				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>			
FOR CARDINAL USE ONLY				† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com											



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

November 17, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/11/22 15:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 48 2.5FT (H225369-01)

BTEX 8021B		mg/ kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63		
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45		
Total BTEX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 49 2.5FT (H225369-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63	
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45	
Total BTEX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 50 2.5FT (H225369-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63	
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45	
Total BTEX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 51 2.5FT (H225369-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63		
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 52 3FT (H225369-05)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63		
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 70.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.8 % 46.3-178

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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 53 0-2FT (H225369-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63		
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.0 % 46.3-178

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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 53 2-3FT (H225369-07)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63	
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 58 0-2FT (H225369-08)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63	
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 71.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2022	Sampling Date:	11/11/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 58 2-3FT (H225369-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	2.06	103	2.00	4.63		
Toluene*	<0.050	0.050	11/16/2022	ND	2.09	105	2.00	3.61		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.08	104	2.00	2.92		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.39	106	6.00	2.45		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2022	ND	183	91.4	200	7.48	
DRO >C10-C28*	<10.0	10.0	11/15/2022	ND	185	92.6	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	11/15/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.3 % 46.3-178

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerceder		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		P.O. #: 20221002-0859-water			
Address: On-File		Company: Amerceder			
City: _____		Attn: a.parker@amerceder.com			
State: _____		Address: _____			
Zip: _____		City: _____			
Phone #: _____		State: _____			
Fax #: _____		Zip: _____			
Project #: _____		Phone #: _____			
Project Name: 20221002-0859-water		Fax #: _____			
Project Location: Lucid River					
Sampler Name: Texas Palomares					
FOR LAB USE ONLY					
Lab I.D. _____		Sample I.D. _____			
<div style="display: flex; justify-content: space-between;"> <div> H2C5369 1 95-48 2.5ft 2 95-49 2.5ft 3 95-50 2.5ft 4 95-51 2.5ft 5 95-52 3ft 6 95-53 0-2ft 7 95-53 2-3ft 8 95-58 0-2ft 9 95-58 2-3ft </div> <div> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME </div> <div> 11-11 12:49 19:58 19:01 13:17 13:22 13:25 13:32 13:41 </div> <div> Chloride TPH (GRO+DRO+MRO) BTEX (Benzene) </div> </div>					
<div style="display: flex; justify-content: space-between;"> <div> 11-11-2022 Time: 15:45 Date: _____ Time: _____ </div> <div> Received By: Monica Chavez Received By: _____ Received By: _____ </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> Observed Temp. °C Corrected Temp. °C Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> </div> <div> CHECKED BY: _____ (Turnaround Time: _____) Thermometer ID #113 Correction Factor -0.6°C </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> </div> <div> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: Temp Blank 1.4° </div> </div>	



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

November 18, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/15/22 15:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 35 4.25FT (H225402-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.81	90.7	2.00	2.99		
Toluene*	<0.050	0.050	11/17/2022	ND	1.90	94.9	2.00	1.93		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.83	91.3	2.00	0.708		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.77	96.2	6.00	4.64		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	11/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 36 4.25FT (H225402-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	11/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7		
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1		
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND						

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 37 4.25FT (H225402-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96	
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66	
Total BTEX	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 37 E 0-2FT (H225402-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 37 E 2-4FT (H225402-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 38 4.25FT (H225402-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96	
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66	
Total BTEX	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 39 4.25FT (H225402-07)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 40 4.25FT (H225402-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 40 W 0-2FT (H225402-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 40 W 2-4FT (H225402-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 41 4.25FT (H225402-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/15/2022
 Reported: 11/18/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 41 S 0-2FT (H225402-12)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/15/2022
 Reported: 11/18/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 41 S 2-4FT (H225402-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 42 4.25FT (H225402-14)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 42 N 0-2FT (H225402-15)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 42 N 2-4FT (H225402-16)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 43 4.25FT (H225402-17)

BTEx 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7		
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1		
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND						

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 43 S 0-2FT (H225402-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 43 S 2-4FT (H225402-19)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/15/2022
 Reported: 11/18/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 44 2.5FT (H225402-20)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96	
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66	
Total BTEX	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	237	118	200	11.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	240	120	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 45 2.5FT (H225402-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.91	95.6	2.00	9.96		
Toluene*	<0.050	0.050	11/17/2022	ND	1.94	97.2	2.00	9.86		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	95.8	2.00	9.44		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.89	98.2	6.00	9.66		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	240	120	200	0.234	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 46 2.5FT (H225402-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	2.13	106	2.00	1.96		
Toluene*	<0.050	0.050	11/17/2022	ND	2.23	111	2.00	1.67		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	2.17	109	2.00	1.16		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	6.57	109	6.00	0.113		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	240	120	200	0.234	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 46 W 0-2.5FT (H225402-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2022	ND	2.13	106	2.00	1.96		
Toluene*	<0.050	0.050	11/18/2022	ND	2.23	111	2.00	1.67		
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.17	109	2.00	1.16		
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.57	109	6.00	0.113		
Total BTEX	<0.300	0.300	11/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	240	120	200	0.234	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 47 2.5FT (H225402-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2022	ND	2.13	106	2.00	1.96		
Toluene*	<0.050	0.050	11/18/2022	ND	2.23	111	2.00	1.67		
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.17	109	2.00	1.16		
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.57	109	6.00	0.113		
Total BTEx	<0.300	0.300	11/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	240	120	200	0.234	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 48 E 0-2.5FT (H225402-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2022	ND	2.13	106	2.00	1.96		
Toluene*	<0.050	0.050	11/18/2022	ND	2.23	111	2.00	1.67		
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.17	109	2.00	1.16		
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.57	109	6.00	0.113		
Total BTEx	<0.300	0.300	11/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	240	120	200	0.234	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.7 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerder		BILL TO		ANALYSIS REQUEST		
Project Manager: Andrew Parker		P.O. #: 20221002-0854-water				
Address: On-File		Company: Amerder				
City:		Attn: a.parker@amerder.com				
State:		Address:				
Zip:		City:				
Phone #:		State:				
Fax #:		Zip:				
Project #:		Phone #:				
Project Owner:		Fax #:				
Project Name: 20221002-0854-water						
Project Location: Lucid Riser						
Sampler Name: Jesus Palomares						
FOR LAB USE ONLY						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
				GROUNDWATER		
				WASTEWATER		
				SOIL		
				OIL		
				SLUDGE		
				OTHER :		
				ACID/BASE:		
				ICE / COOL		
				OTHER :		
				DATE	TIME	
H235462	GS-35	4.25ft	11-15	7:47	Chloride	
1	GS-36	4.25ft		7:56	TPH (GRO+DRO+MRO)	
2	GS-37	4.25ft		8:01	BTEX (Benzene)	
3	GS-37E	0-2ft		8:09		
4	GS-37E	0-2ft		8:13		
5	GS-37E	0-2ft		8:21		
6	GS-38	4.25ft		8:26		
7	GS-39	4.25ft		8:32		
8	GS-40	4.25ft		8:40		
9	GS-40W	0-2ft		8:43		
10	GS-40W	2-4.25ft				
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>						
Relinquished By: [Signature]		Date: 1/15/22		Received By: [Signature]		
Time: 1:55z		Date: 1/15/22		Received By: [Signature]		
Time:		Time:		REMARKS:		
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
FORM 006 REV 07/16/22		Corrected Temp. °C		Checked BY: (Initials) g.p.		
Turnaround Time:		Standard Rush		<input checked="" type="checkbox"/> Bacteria (only) Sample Condition		
Thermometer ID #113		<input type="checkbox"/> Cool Intact		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Correction Factor -0.8°C		<input type="checkbox"/> No		<input type="checkbox"/> Corrected Temp. °C		
† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com						



ANALYSIS REQUEST

Page 29 of 30



ANALYSIS REQUEST

Page 30 of 30



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

November 18, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/15/22 15:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2022	Sampling Date:	11/15/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BACKGROUND 01 0-3.5FT (H225403-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2022	ND	2.13	106	2.00	1.96		
Toluene*	<0.050	0.050	11/18/2022	ND	2.23	111	2.00	1.67		
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.17	109	2.00	1.16		
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.57	109	6.00	0.113		
Total BTEX	<0.300	0.300	11/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	240	120	200	0.234	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerceder</u> Project Manager: <u>Andrew Parker</u> Address: <u>On-File</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>20221002-0859-water</u> Project Location: <u>Lucid Riser</u> Sampler Name: <u>Jesus Palomares</u>				BILL TO P.O. #: <u>20221002-0859-water</u> Company: <u>Amerceder</u> Attn: <u>aparker@amerceder.com</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D. <u>H225-403</u> Sample I.D. <u>Background 01 0-3.5ft</u>		(G)RAB OR (C)OMP. # CONTAINERS <u>G1</u>	MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL <input checked="" type="checkbox"/> _____ OIL _____ SLUDGE _____ OTHER: _____		ACID/BASE: _____ ICE / COOL <input checked="" type="checkbox"/> _____ OTHER: _____	DATE <u>11-15</u> TIME <u>13:07</u>	<u>Chloride</u> <u>TPH (GRO + DRO + MRO)</u> <u>BTEX (Benzene)</u>				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.											
Relinquished By: _____ Time: <u>15:52</u> Date: <u>11-15-22</u>		Received By: _____ Time: _____ Date: _____		REMARKS: Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>6.1</u> Corrected Temp. °C <u>5.5</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: _____ (Initials)		Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 _____ Bacteria (only) Sample Condition Correction Factor -0.8°C <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____			

FORM 1006 R-33 07/10/22

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



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

November 28, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/18/22 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 04 2FT (H225474-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02	
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 05 2FT (H225474-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 06 1FT (H225474-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 07 1FT (H225474-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02	
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 07N 0-1FT (H225474-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 08 0-2FT (H225474-06)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02	
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46	
Total BTX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 08 2-3FT (H225474-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 09 3FT (H225474-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 11 2FT (H225474-09)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02	
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46	
Total BTX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 13 2FT (H225474-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 15 3FT (H225474-11)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02	
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46	
Total BTX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	182	91.0	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 16 0-2FT (H225474-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTEX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 16 2-3FT (H225474-13)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02		
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46		
Total BTX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 98.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 17 3FT (H225474-14)

BTX 8021B			mg/kg					Analyzed By: JH/		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	11/23/2022	ND	2.05	102	2.00	4.02			
Toluene*	<0.050	0.050	11/23/2022	ND	2.14	107	2.00	4.58			
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.13	107	2.00	4.03			
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.54	109	6.00	3.46			
Total BTX	<0.300	0.300	11/23/2022	ND							

Surrogate: 4-Bromofluorobenzene (PID) 248 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: GM			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	64.0	16.0	11/22/2022	ND	400	100	400	3.92			

TPH 8015M			mg/kg					Analyzed By: MS			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	214	10.0	11/22/2022	ND	189	94.7	200	4.77			
DRO >C10-C28*	6380	10.0	11/22/2022	ND	177	88.6	200	7.80			
EXT DRO >C28-C36	29.9	10.0	11/22/2022	ND							

Surrogate: 1-Chlorooctane 168 % 45.3-161

Surrogate: 1-Chlorooctadecane 324 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 19 2.5FT (H225474-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 23 2.5FT (H225474-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 24 2.5FT (H225474-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/22/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 25S 0.25-2.5FT (H225474-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1890	16.0	11/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 26 3FT (H225474-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47	
Total BTEx	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 27 0-2FT (H225474-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 28 0-2FT (H225474-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/22/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.43	107	6.00	2.47	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 30 2.5FT (H225474-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 31 2.5FT (H225474-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEx	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 32 2.5FT (H225474-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEx	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 33 2.5FT (H225474-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEx	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 34 2.5FT (H225474-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 34E 0-2.5FT (H225474-27)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TS - 01 5.5FT (H225474-28)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47		
Total BTX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4680	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	32.8	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/18/2022
 Reported: 11/28/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TS - 02 5.5FT (H225474-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	2.02	101	2.00	0.726		
Toluene*	<0.050	0.050	11/23/2022	ND	2.17	108	2.00	0.705		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.43	107	6.00	2.47		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	45.1	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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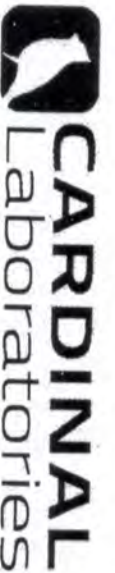
A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerceder		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		P.O. #: 20221002-0859-water			
Address: On-File		Company: Amerceder			
City:	State:	Zip:	Attn: A. Parker @ Amerceder		
Phone #:	Fax #:		Address:		
Project #:	Project Owner:		City:		
Project Name: 20221002-0859-water		State:	Zip:		
Project Location: Lucid River		Phone #:			
Sample Name: Jesus Palomares		Fax #:			
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
H28474					
11 GS-15	344				
12 GS-16	0-244				
13 GS-16	2-344				
14 GS-17	344				
15 GS-19	2.544				
16 GS-23	2.544				
17 GS-24	2.544				
18 GS-25	0.25-2.544				
19 GS-26	344				
20 GS-27	0-244				
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By:	Date: 11-18-22	Received By:	Date: 11-18-22		
Time: 16:30		Time: 16:30			
Relinquished By: <i>[Signature]</i>		Received By: <i>[Signature]</i>			
Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	REMARKS:
Sampler - UPS - Bus - Other:	6.4	5.8	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TC	
Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) <input type="checkbox"/>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Sample Condition	
Thermometer ID #113	Correction Factor -0.6°C	Observed Temp. °C	Corrected Temp. °C		
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerceder		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		P.O. #: 20221002-0859-water			
Address: On-File		Company: Amerceder			
City:	State:	Zip:	Attn: A.Parker@amerceder.com		
Phone #:	Fax #:		Address:		
Project #:	Project Owner:	City:	State:	Zip:	
Project Name: 20221002-0859-water		Phone #:	Fax #:		
Project Location: Lucid River					
Sampler Name: Jesus Palomares					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
H225474					
21	G5-28	0-2ft	1		
22	G5-30	2.5ft			
23	G5-31	2.5ft			
24	G5-32	2.5ft			
25	G5-33	2.5ft			
26	G5-34	2.5ft			
27	G5-34 E	0-2.5ft			
28	T5-01	5.5ft			
29	T5-02	5.5ft			
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By: [Signature]	Date: 12/18/22	Received By: [Signature]	Date: 11-18-22		
Time: 16:30		Time: 10:01			
Date: 12/18/22		Date: 11-18-22			
Time: 16:30		Time: 10:01			
Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:
Sampler - UPS - Bus - Other:	6.4	6.8	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	VP	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
FORM-006 R-33 07/18/22			<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/>
			<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C
			<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com					
REMARKS:					
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:					
All Results are emailed. Please provide Email address:					



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

November 29, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/22/22 15:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 42 5.5FT (H225525-01)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.96	97.9	2.00	1.30	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	109	2.00	0.216	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.21	104	6.00	1.00	
Total BTEX	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	11/23/2022	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	206	103	200	1.80	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	203	101	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 42 6.5FT (H225525-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.96	97.9	2.00	1.30		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	109	2.00	0.216		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.22		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.21	104	6.00	1.00		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/23/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	206	103	200	1.80	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	203	101	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 42 7.5FT (H225525-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.96	97.9	2.00	1.30		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	109	2.00	0.216		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.22		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.21	104	6.00	1.00		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	206	103	200	1.80	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	203	101	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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Page 6 of 6



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

November 29, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/22/22 15:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 35 5.5FT (H225526-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11	
Total BTEX	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 35 8.5FT (H225526-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11	
Total BTEx	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



18/11

Page 5 of 5



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

November 29, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/22/22 15:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 01 0-2FT (H225527-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11	
Total BTEX	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/22/2022
 Reported: 11/29/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 02 2FT (H225527-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 02 N 0-2FT (H225527-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 03 0-2FT (H225527-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10 1FT (H225527-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10 S 0.25-1FT (H225527-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 12 2FT (H225527-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 14 0.25-2FT (H225527-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11	
Total BTEX	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 97.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 14 2-4FT (H225527-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 18 0.25-2FT (H225527-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 18 2-4FT (H225527-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/22/2022
 Reported: 11/29/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 20 2FT (H225527-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11	
Total BTEX	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/23/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 21 0-2FT (H225527-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEx	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/23/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 22 2FT (H225527-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 22 S 0-2FT (H225527-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 22 W 0-2FT (H225527-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/23/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/22/2022
 Reported: 11/29/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 24 W 0-2FT (H225527-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357	
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11	
Total BTEX	<0.300	0.300	11/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/23/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 38 W 0-2FT (H225527-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2022	ND	1.97	98.6	2.00	0.357		
Toluene*	<0.050	0.050	11/24/2022	ND	2.19	110	2.00	1.57		
Ethylbenzene*	<0.050	0.050	11/24/2022	ND	2.06	103	2.00	1.19		
Total Xylenes*	<0.150	0.150	11/24/2022	ND	6.20	103	6.00	1.11		
Total BTEX	<0.300	0.300	11/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	3.61	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	191	95.6	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 38 W 2-4FT (H225527-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	1.98	99.2	2.00	1.43		
Toluene*	<0.050	0.050	11/23/2022	ND	2.09	104	2.00	0.615		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	105	2.00	1.15		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.44	107	6.00	1.71		
Total BTEX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	193	96.3	200	0.896	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	202	101	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/22/2022	Sampling Date:	11/22/2022
Reported:	11/29/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 40 E 0-2FT (H225527-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	1.98	99.2	2.00	1.43		
Toluene*	<0.050	0.050	11/23/2022	ND	2.09	104	2.00	0.615		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	105	2.00	1.15		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.44	107	6.00	1.71		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	193	96.3	200	0.896	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	202	101	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/22/2022
 Reported: 11/29/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 11/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: GS - 40 E 2-4FT (H225527-21)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	1.98	99.2	2.00	1.43		
Toluene*	<0.050	0.050	11/23/2022	ND	2.09	104	2.00	0.615		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.11	105	2.00	1.15		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.44	107	6.00	1.71		
Total BTX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	193	96.3	200	0.896	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	202	101	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

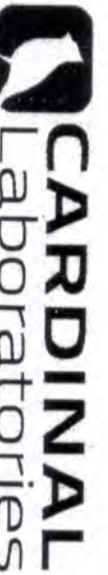
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

1 of 3

BILL TO

P.O. #: 20221002-0859-water

Company: Amerder

Attn: A. Parker @ Amerder

Address:

City:

State: Zip:

Phone #:

Fax #:

Company Name: Amerder

Project Manager: Andrew Parker

Address: On-File

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: 20221002-0859-water

Project Location: Lucid River

Sampler Name: Jesus Palomares

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER							DATE	TIME	ANALYSIS REQUEST		
				WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			OTHER :	Chloride	TPH (G)
H25527	GS-01	0-2ft	1							11-22-22	7:52				
1	GS-02	2ft									8:01				
2	GS-02N	0-2ft									8:07				
3	GS-03	0-2ft									8:11				
4	GS-10	1ft									8:14				
5	GS-10S	0.25-1ft									8:22				
6	GS-12	2ft									8:25				
7	GS-14	0.25-2ft									8:31				
8	GS-14	2-4ft									8:40				
9	GS-18	0.25-2ft									8:47				
10															

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Relinquished By:

Date: 11-22-22

Time: 1520

Received By: J. Parker

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Time:

REMARKS:

Temp 13.1mK 4.3°C

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Turnaround Time:

Standard

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition

Turnaround Time:

Standard

Bacteria (only)

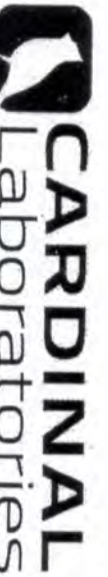
Cool Intact

Observed Temp. °C

Corrected Temp. °C

FORM-000 KCS 07/18/22

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2083

Company Name: Amerceder		P.O. #: 20221002-0859-water		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		Company: Amerceder					
Address: On-File		Attn: A.Parker@amerceder.com					
City: _____ State: _____ Zip: _____		Address: _____					
Phone #: _____ Fax #: _____		City: _____ State: _____ Zip: _____					
Project #: _____ Project Owner: _____		Phone #: _____ Fax #: _____					
Project Name: 20221002-0859-water		State: _____ Zip: _____					
Project Location: Lucid River		Phone #: _____ Fax #: _____					
Sample Name: Jesus Palomares		FOR LAB USE ONLY					
Lab I.D. _____		Sample I.D. _____					
H225527		(G)RAB OR (C)OMP. 1		# CONTAINERS			
11 GS-18 2-4H		GROUNDWATER		WASTEWATER			
12 GS-20 2H		SOIL		OIL			
13 GS-21 0-2H		SLUDGE		OTHER :			
14 GS-22 2H		ACID/BASE:		ICE / COOL			
15 GS-23 0-2H		OTHER :		DATE		TIME	
16 GS-24 0-2H		DATE		TIME			
17 GS-24W 0-2H		DATE		TIME			
18 GS-38W 0-2H		DATE		TIME			
19 GS-38W 2-4H		DATE		TIME			
20 GS-40E 0-2H		DATE		TIME			
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Matrix		PRESERV		SAMPLING	
Relinquished By: _____		Received By: _____		CHECKED BY: (Initials)		REMARKS:	
Date: 11-22-22		Time: 1520		Date: _____ Time: _____		Turnaround Time: _____	
Delivered By: (Circle One) _____		Observed Temp. °C 2.1		Corrected Temp. °C 1.5		Sample Condition	
Sampler - UPS - Bus - Other: _____		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/>		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
THERMOMETER ID #113		Correction Factor -0.6°C		Standard <input type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/>	
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #: _____		All Results are emailed. Please provide Email address: _____	
REMARKS: Temp Blank 41.3°C							



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

W
W
W



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

December 01, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 11/30/22 15:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/01/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 17 4.5FT (H225606-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2022	ND	1.83	91.7	2.00	0.307	
Toluene*	<0.050	0.050	12/01/2022	ND	2.03	102	2.00	0.142	
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	104	2.00	0.428	
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.46	108	6.00	1.03	
Total BTEX	<0.300	0.300	12/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/01/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2022	ND	245	122	200	2.90	
DRO >C10-C28*	<10.0	10.0	12/01/2022	ND	225	113	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	12/01/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



BILL TO

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING DATE	SAMPLING TIME	
H225606	195-17	4.5 ft	G	1	GROUNDWATER			11-30	07:59	Chloride
					WASTEWATER					TPH (Gr)
					SOIL	<input checked="" type="checkbox"/>				BTEX (Be)
					OIL					
					SLUDGE					
					OTHER :					
					ACID/BASE:					
					ICE / COOL	<input checked="" type="checkbox"/>				
					OTHER :					

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

Relinquished By:				Date:		Received By:			
Relinquished By:				Time:		Received By:			
Date:				Time:		Received By:			
Time:				Time:		Received By:			
Delivered By: (Circle One)				Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Corrected Temp. °C				Cool		Intact			
Sampler - UPS - Bus - Other:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Turnaround Time:				Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only)		Sample Condition	
Thermometer ID #113				Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		Observed Temp. °C	
Correction Factor -0.6°C				34hr.		Yes <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C	



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

December 14, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: LUCID RISER

Enclosed are the results of analyses for samples received by the laboratory on 12/09/22 15:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/09/2022	Sampling Date:	12/07/2022
Reported:	12/14/2022	Sampling Type:	Soil
Project Name:	LUCID RISER	Sampling Condition:	Cool & Intact
Project Number:	20221002-0859-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BACKFILL 01 (H225829-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	7.89		
Toluene*	<0.050	0.050	12/13/2022	ND	2.08	104	2.00	7.94		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.05	102	2.00	6.96		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.38	106	6.00	5.48		
Total BTEX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	228	114	200	3.77	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	214	107	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: LUCID RISER
 Project Number: 20221002-0859-WATER
 Project Location: NONE GIVEN

Sampling Date: 12/07/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TOPSOIL 01 (H225829-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	7.89		
Toluene*	<0.050	0.050	12/13/2022	ND	2.08	104	2.00	7.94		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.05	102	2.00	6.96		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.38	106	6.00	5.48		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	228	114	200	3.77	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	214	107	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Page 5 of 5

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 170620

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 170620
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	1/24/2023