

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 110942

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 110942
	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	Anderson "B" Pad Zeus 20220521-0934-construction
Date Release Discovered	05/21/2022
Surface Owner	Federal

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 Fitting Produced Water Released: 30 BBL Recovered: 20 BBL Lost: 10 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 110942

QUESTIONS (continued)

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	Action Number: 110942
	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 at Advance Energy Partners
If YES, was immediate notice given to the OCD, to whom	ocd.enviro@state.nm.us; mike.bratcher@state.nm.us
If YES, was immediate notice given to the OCD, when	05/21/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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ACKNOWLEDGMENTS

Action 110942

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	Action Number: 110942
	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 110942

CONDITIONS

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	Action Number: 110942
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
aparker	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	5/26/2022

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	4848.55
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]	169.7
		[gal]	1269.4
		Barrels	30.2

From GIS

Sq. Ft 1979

Depth (ft) 2.45

Cu. Ft 4848.55

Incident ID	nAPP2214632298
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? <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

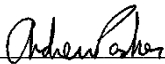
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

Page 4

Incident ID	nAPP2214632298
District RP	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: November 4, 2022email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn harimonDate: 11/04/2022

Incident ID	nAPP2214632298
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Facility ID	
Application ID	

Remediation Plan

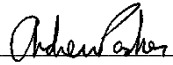
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: November 4, 2022email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn Harimon Date: 11/04/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Incident ID	nAPP2214632298
District RP	
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Application ID	

Closure

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

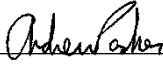
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: November 4, 2022

email: aparker@advanceenergypartners.com


Telephone: 970-570-9535

OCD Only

Received by: Jocelyn Harimon

Date: 11/04/2022

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

Closure Approved by:  Date: 12/01/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

November 4, 2022

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

RE: Closure Report
Incident ID: nAPP2214632298
AEP #: 20220521-0934-construction
Location: Anderson B Pad Zeus

NMOCD:

Advance Energy Partners Hat Mesa LLC submits this closure report for the above referenced incident. Included in this report are characterization, remediation, and restoration activities. We respectfully ask NMOCD for closure of the regulatory file.

The release was discovered on May 21, 2022 from the failure of a polypipe weld on a temporary flowline. The calculated volume of released produced water was 30 barrels and the release extent covered an area of approximately 1976 sq. ft.

The release occurred along a pipeline right-of-way (ROW) during pipeline construction (Figure 1). The release occurred on Federal surface. The coordinates of the release point are 32.4268172, -103.6438142 (Lat, Long; NAD83).

Figure 1: Photo near the release point within grid G-03. The pipeline ROW is under construction. Photo is viewing east. 2022-05-21 12:10:52. GPS: 32.4267864 N, 103.6437928 W.



Incident ID: nAPP2214632298
Location: Anderson B Pad Zeus
AEP #: 20220521-0934-construction

1 Characterization

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

1.1. Site Map

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

Plate 1 shows the release extent relative to ROW to the south of the Anderson “B” Pad production site. The discharge extent covered an area of approximately 1976 sq. ft.

1.2. Depth to Ground Water

The nearest depth-to-water borings relative to the discharge extent is mapped on Plate 2. The Office of State Engineer well log is attached in Appendix B.

- MISC 398 (C-4566 POD1) is approximately 0.17 mi east southeast of the discharge area with a depth to water of >105 dated 09/22/2021. The DTW boring has been plugged according to OSE regulations.

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:

- 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).

Closest significant watercourse is an intermittent stream located 890 ft NW of release.

1.5. Soil/Waste Characteristics

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

Incident ID: nAPP2214632298
Location: Anderson B Pad Zeus
AEP #: 20220521-0934-construction

The release occurred in an area of Pyote and Maljamar fine sands with 0-3% slope. The USDA Natural Resources Conservation Service (NRCS) soil survey¹ describes the upper 5-ft of lithology as

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

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

2. Remediation & Restoration

Advance Energy Partners proceeded with the construction & completion of the pipeline during which time access to the release area was restricted. After completion of the pipeline the surface was restored to an active right-of-way (Figure 2).



Figure 2: Photograph of the restored pipeline right-of-way viewing east along the release extent. The source of the release is located near the caliche backfill pile (photo center left) for the hydrovac windowing for the pipeline sighting was located in preparation for core sampling. 2022-11-02 14:55:50. 32.4268539 N, 103.6439939 W.

Characterization sampling occurred after the site was cleared for access. The release extent was divided into sample grid areas not exceeding 200 sq ft. Core samples were obtained to comprehensively characterize the release area for horizontal and vertical delineation. All samples were analyzed for Chloride, TPH, Benzene, and BTEX. All characterization samples met Closure Criteria for constituents of concern per Table 1 of 19.15.29 NMAC, where depth to water is > 100 ft as defined below for off-site areas.

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

Incident ID: nAPP2214632298
Location: Anderson B Pad Zeus
AEP #: 20220521-0934-construction

Closure criteria is defined as:

- For the release areas off-site, along a right-of-way, and where depth to water is > 100 ft:
 - Upper 4-feet
 - Chloride < 600 mg/kg
 - TPH (GRO + DRO + MRO) < 100 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
 - Below 4-feet
 - Chloride < 20,000 mg/kg
 - TPH (GRO + DRO + MRO) < 2,500 mg/kg
 - TPH (GRO + DRO) < 1,000 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
- Plate 10 shows the sampling grid layout and associated square footage
- Confirmation sample points are identified on Plate 11
- Sample point coordinates are shown in Table A
- Summary of analytical is shown on Table B
- The laboratory Certificates of Analyses are in attached in Appendix C

Laboratory analysis of soils within the release extent demonstrated that constituents of concern met closure criteria thus, remediation was not required.

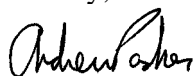
3. Closure Request

Characterization samples are presented as confirmation samples for the purpose of request for closure. As characterization sample analytical results met Closure Criteria, Advance Energy respectfully asks NMOCD for a variance i) to the 48-hour sampling notice for confirmation sampling and ii) to accept characterization samples for confirmation and requests closure of this regulatory file.

The surface is maintained as an active pipeline ROW. Final reclamation and restoration will occur when the right-of-way is no longer in-use for oil and gas operations per 19.15.29.13.D NMAC.

Please contact me with any questions.

Sincerely,



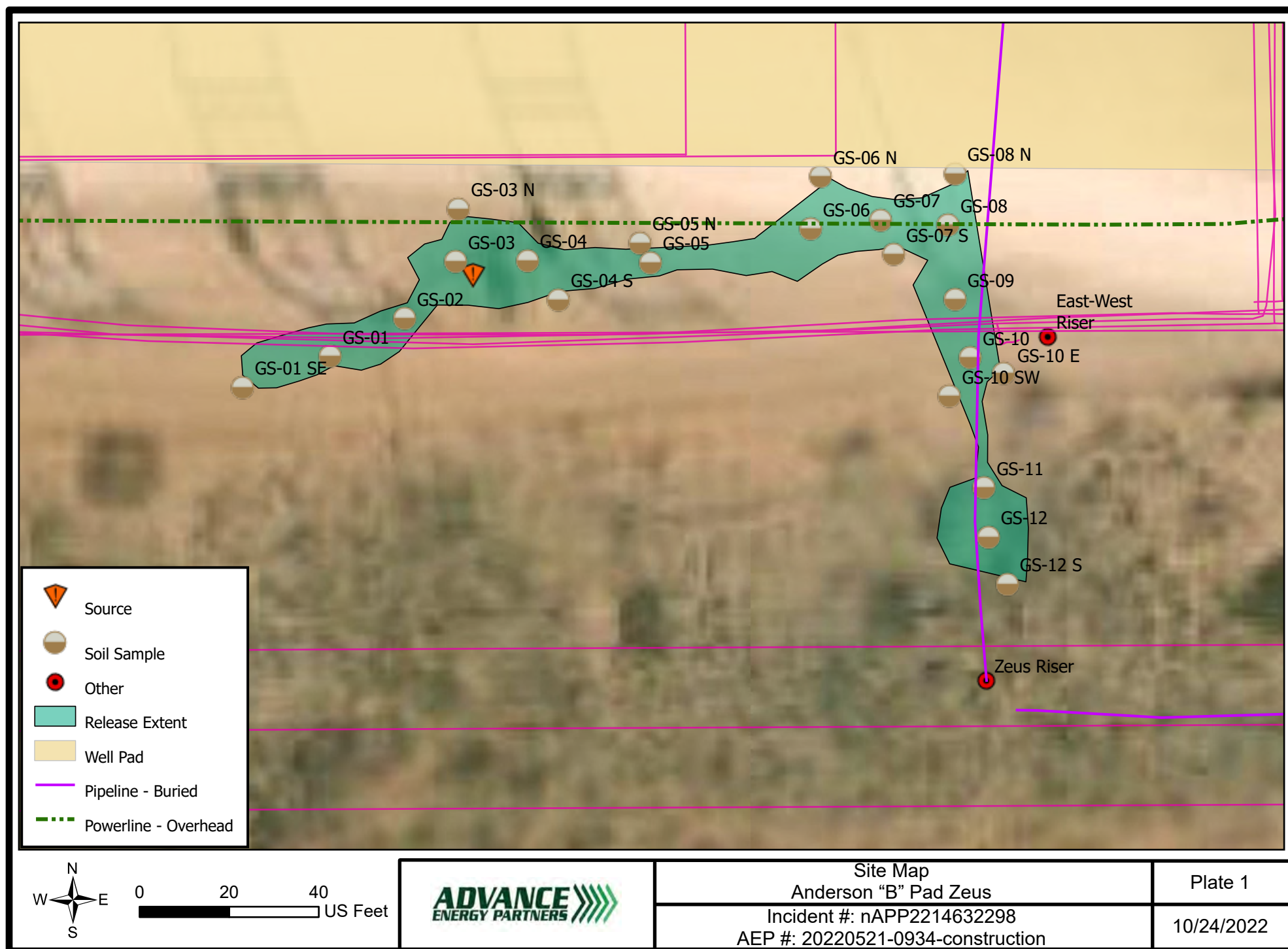
Andrew Parker

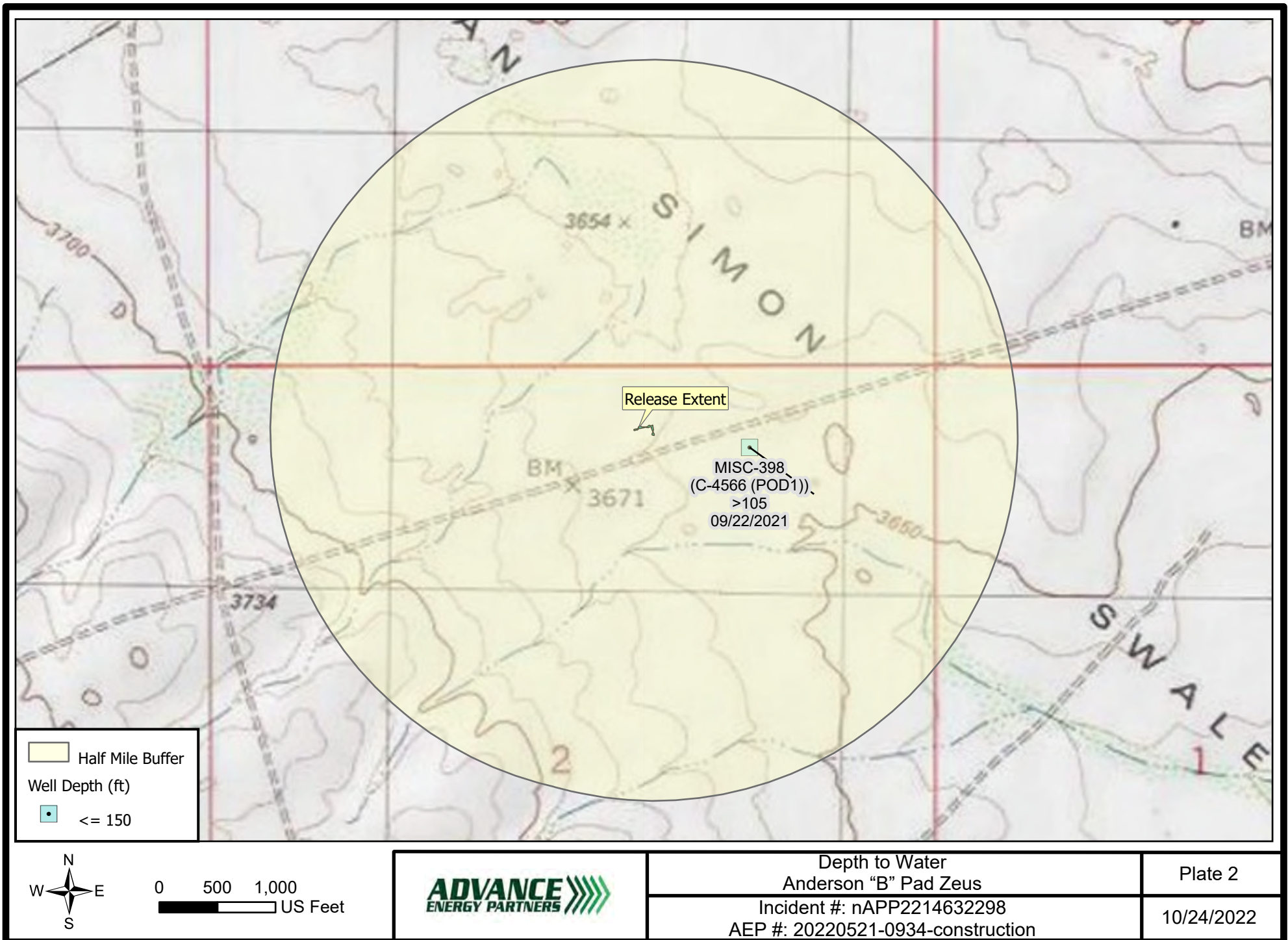
Ameredev Operating, on the behalf of Advance Energy Partners, LLC
Environmental Scientist

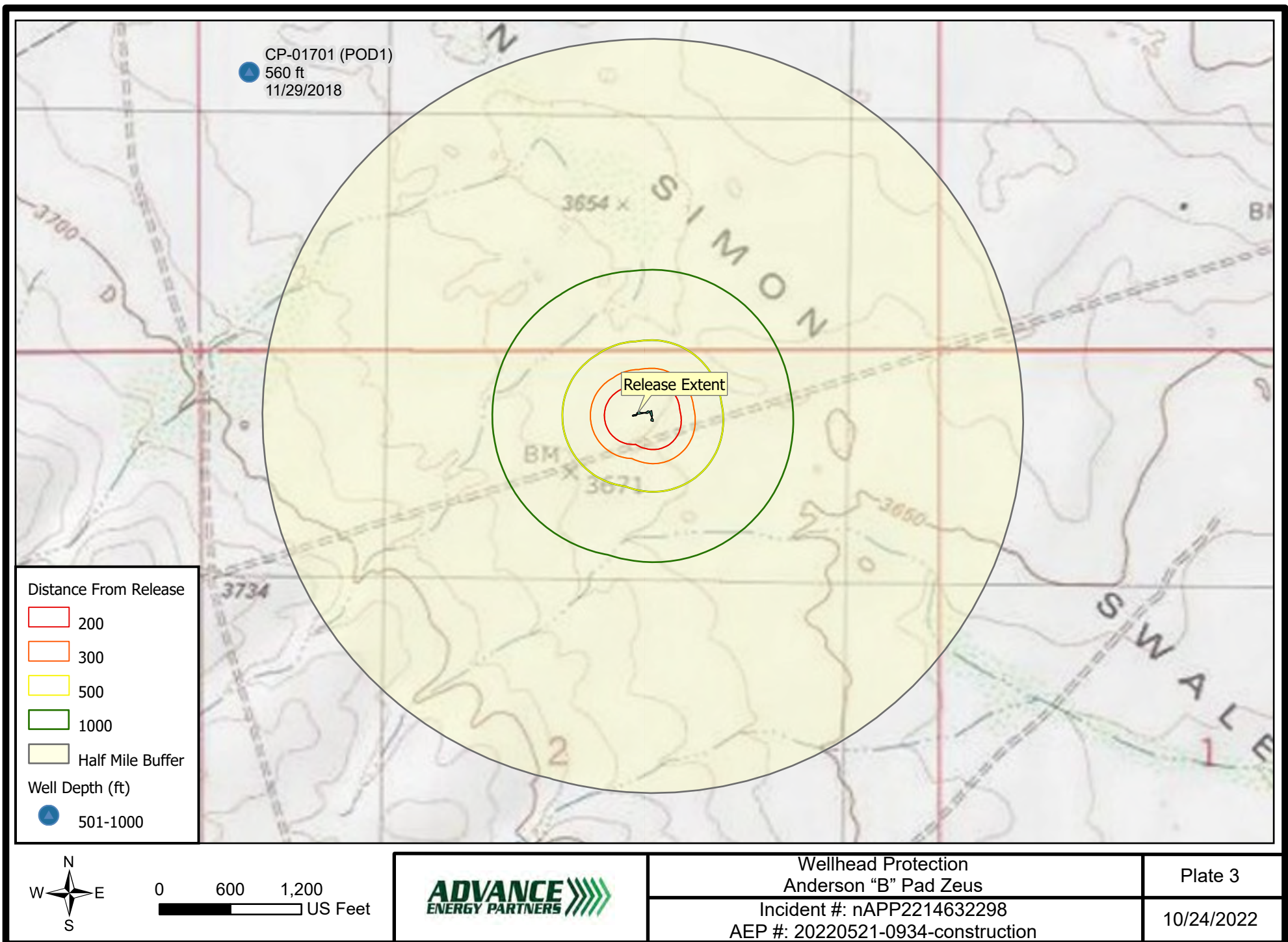
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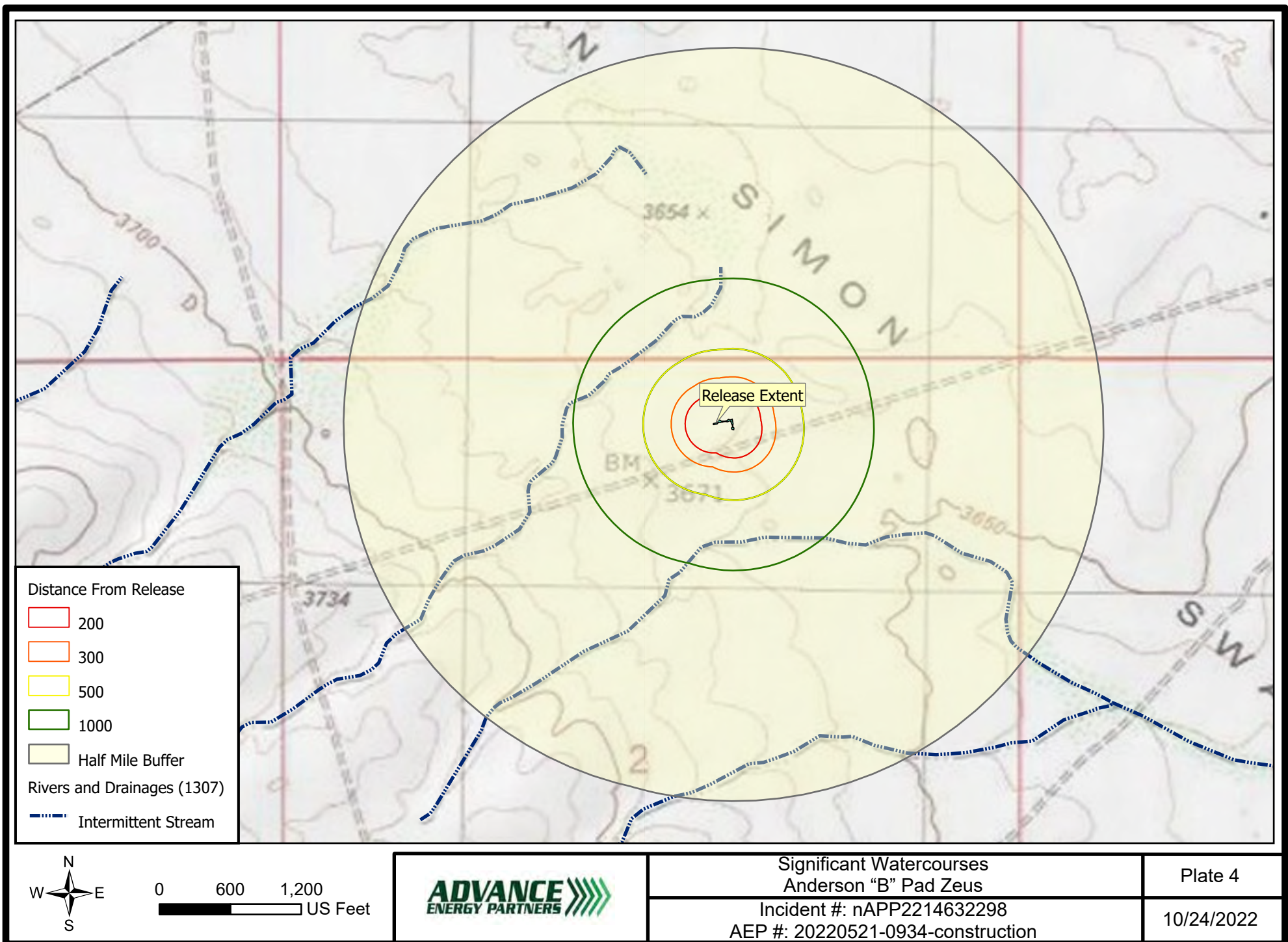
Plates

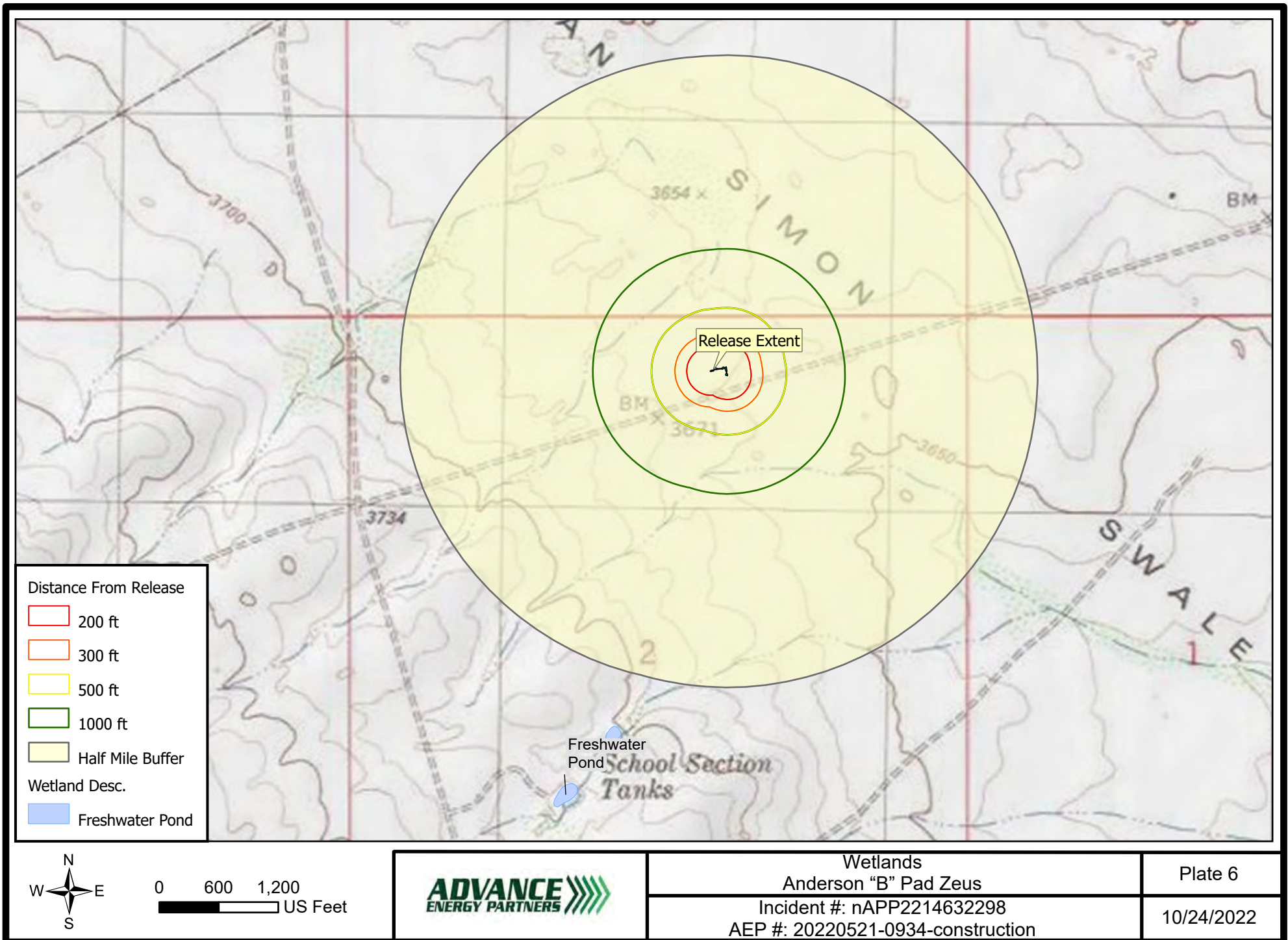


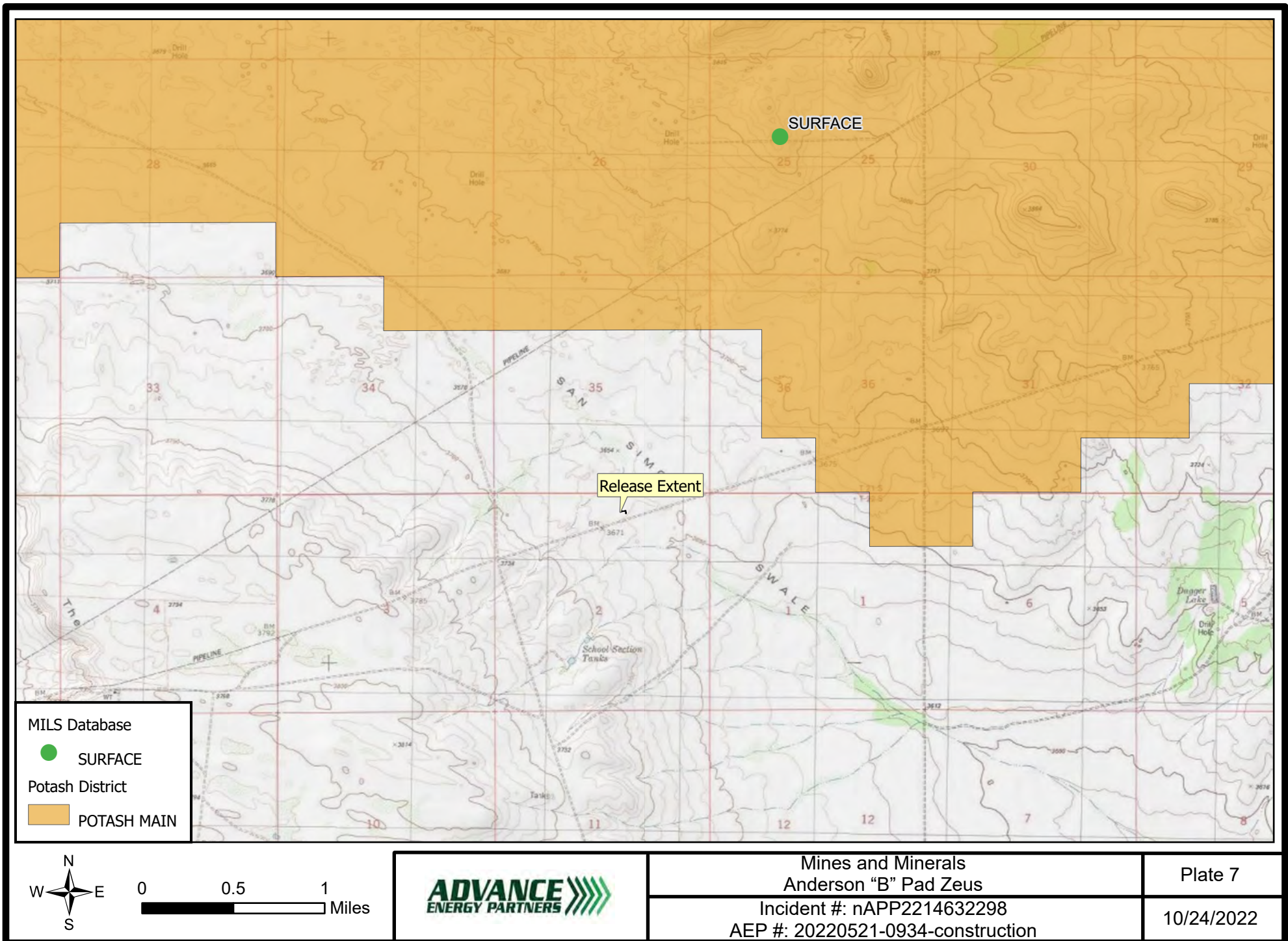


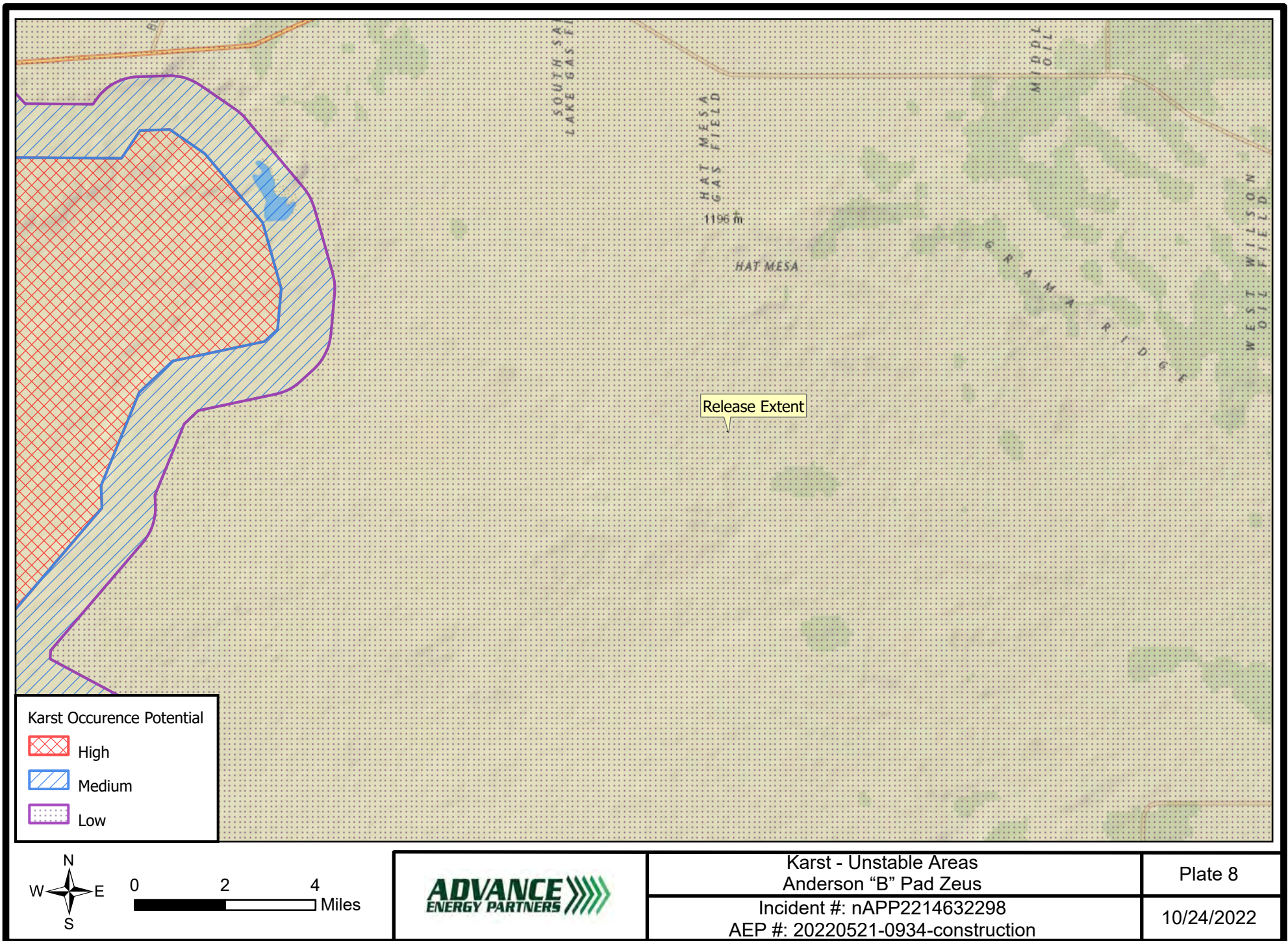


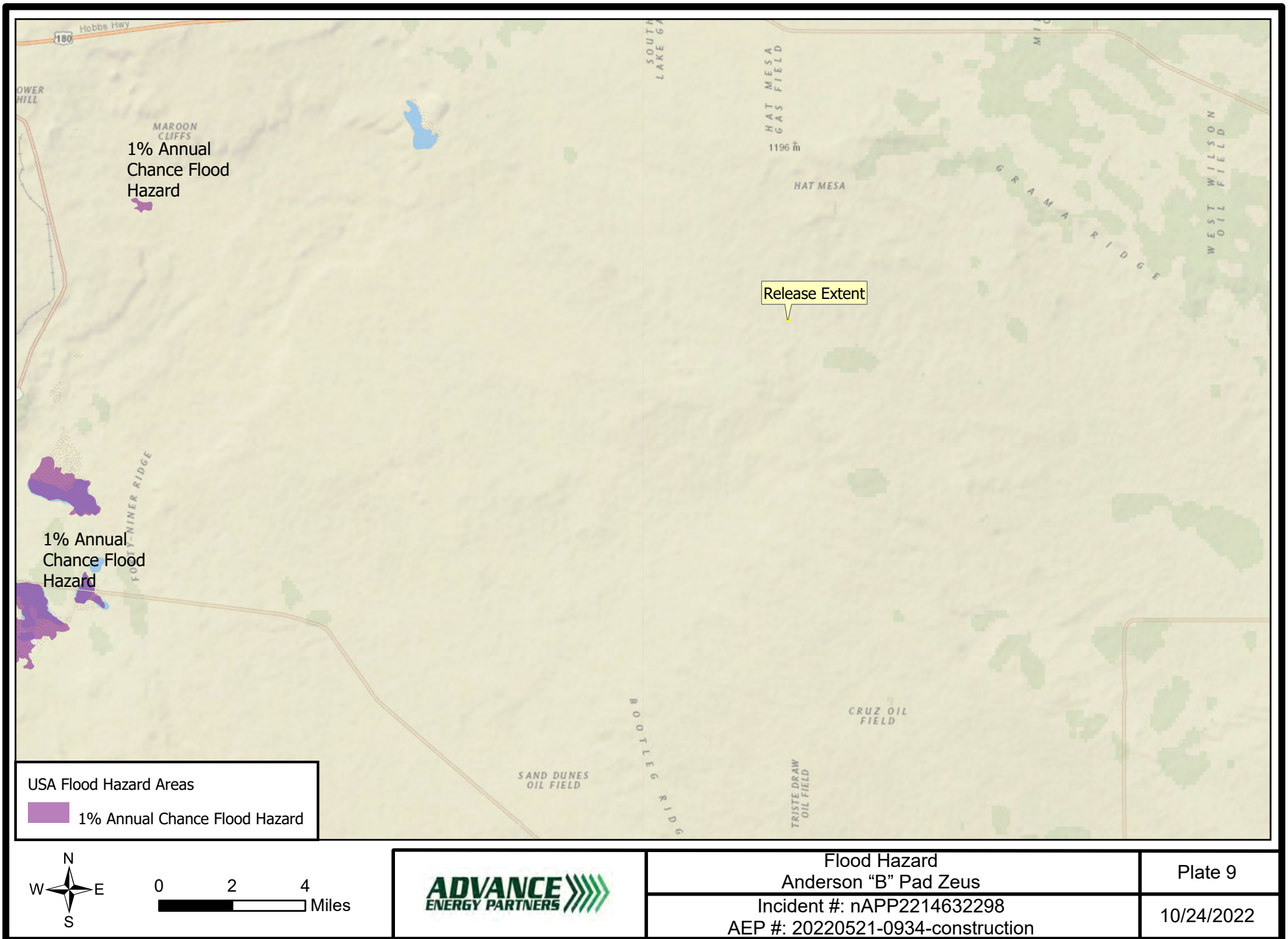


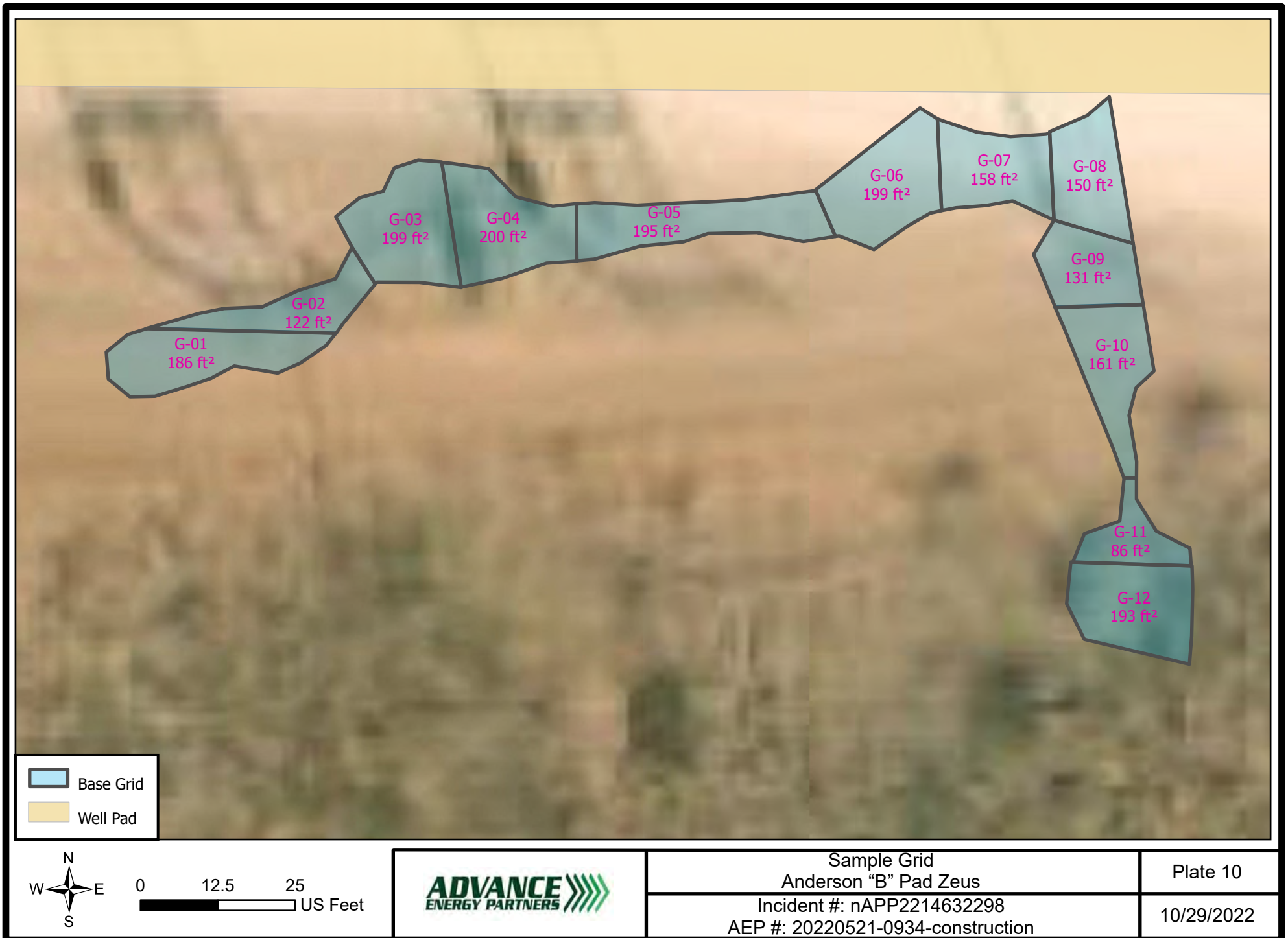


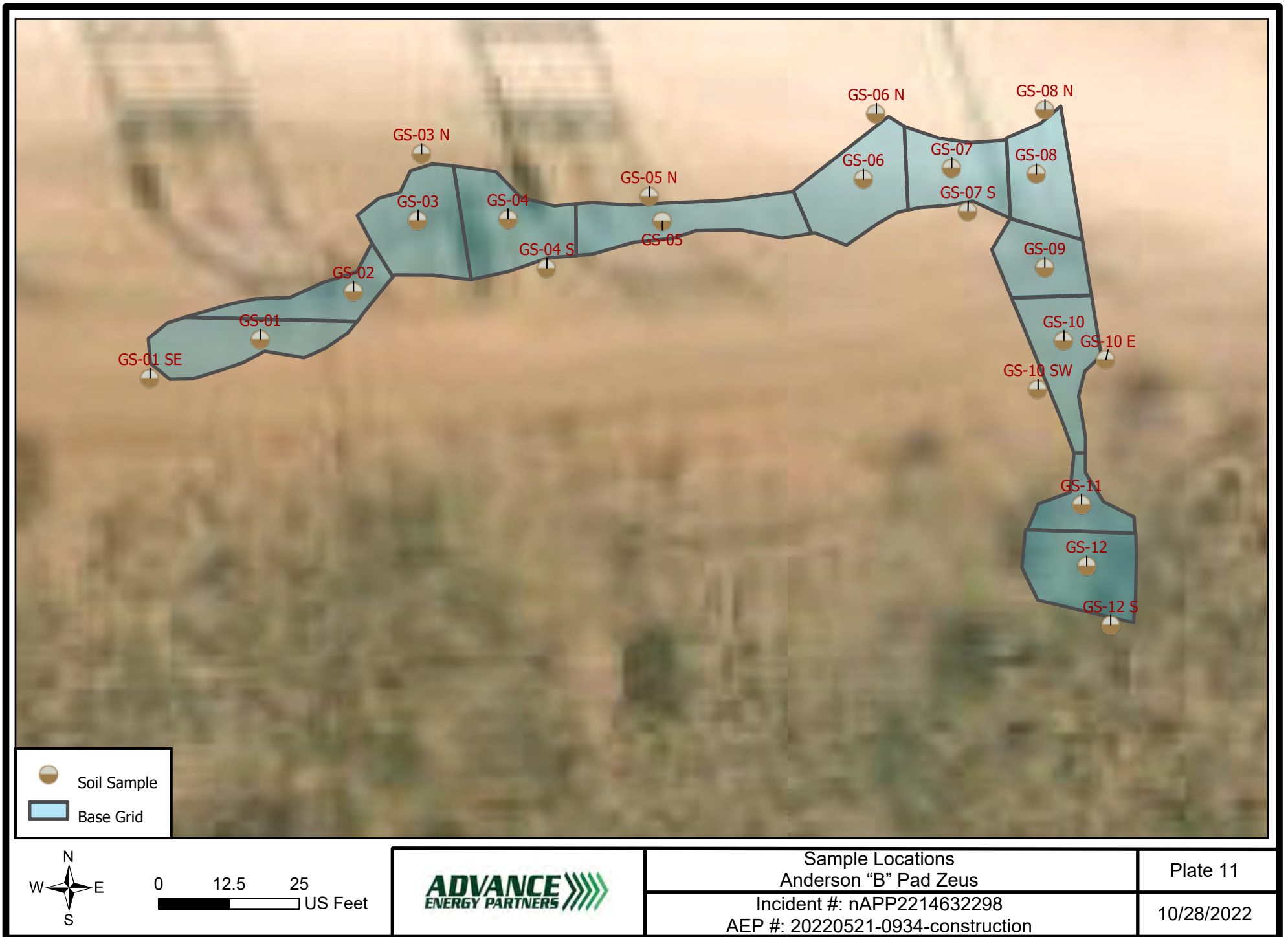












Tables



GS-01	32.42677584	-103.6439029
GS-01 SE	32.4267599	-103.6439565
GS-02	32.42679554	-103.6438575
GS-03	32.42682477	-103.6438261
GS-03 N	32.42685198	-103.6438244
GS-04	32.42682529	-103.6437823
GS-04 S	32.42680509	-103.6437634
GS-05	32.42682437	-103.6437073
GS-05 N	32.42683444	-103.6437136
GS-06	32.42684159	-103.6436094
GS-06 N	32.42686865	-103.6436031
GS-07	32.42684626	-103.6435664
GS-07 S	32.42682851	-103.6435585
GS-08	32.42684374	-103.6435253
GS-08 N	32.42687016	-103.6435211
GS-09	32.42680534	-103.6435211
GS-10	32.42677529	-103.6435118
GS-10 E	32.42676739	-103.6434914
GS-10 SW	32.42675528	-103.6435245
GS-11	32.4267081	-103.6435032
GS-12	32.42668269	-103.6435007
GS-12 S	32.42665841	-103.6434891

October 30, 2022

Table B
Summary of AnalyticalIncident ID: nAPP2214632298
AEP #: 20220521-0934-construction
Location: Anderson B Pad Zeus

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	In Use (Yes/No)	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-01	10/20/2022		0	2		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-01 SE	10/20/2022		0	2		<16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-02	10/20/2022		0	2		112	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-02	10/20/2022		2	4		48	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-03	10/20/2022		0	2		240	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-03	10/20/2022		2	4		16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-03 N	10/20/2022		0	2		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-04	10/20/2022		0	2		16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-04 S	10/20/2022		0	2		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-05	10/20/2022		0	2		<16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-05 N	10/20/2022		0	2		16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-06	10/20/2022		0	2		<16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-06 N	10/20/2022		0	2		<16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-07	10/20/2022		0	2		<16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-07 S	10/20/2022		0	2		<16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-08	10/20/2022		0	2		64	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-08 N	10/20/2022		0	2		64	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-08 N	10/20/2022		2	4		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-09	10/20/2022		0	2		16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-10	10/20/2022		0	2		48	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-10 E	10/20/2022		0	2		48	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-10 W	10/20/2022		0	2		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-11	10/20/2022		0	2		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-12	10/20/2022		0	2		32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949
GS-12 S	10/20/2022		0	2		16	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H224949

Appendix A

Communications



From: OCDOnline@state.nm.us
To: [Andrew Parker](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 110942
Date: Thursday, May 26, 2022 9:58:52 AM

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

To whom it may concern (c/o Andrew Parker for ADVANCE ENERGY PARTNERS HAT MESA, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2214632298, 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 nAPP2214632298, 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](#)
Cc: [Bratcher, Mike, EMNRD](#); [Dayeed Khan](#); [Floyd Hammond](#); [Shane McNeely](#); [Amos, James](#); [Hansley Persad](#)
Subject: 24 hour major release notification Anderson "B" Pad 20220521-0934-construction
Date: Saturday, May 21, 2022 4:11:00 PM

NMOCD,

Please accept this email as the 24-hour major release notification per 19.15.29 NMAC. A C-141 Notification of Release will be submitted via the NMOCD online portal within 10-days.

Responsible Party: Advance Energy Partners Hat Mesa, LLC
Site Name: Anderson "B" Pad 20220521-0934-construction
Date/Time: 05/21/2022 at 09:34 am
Latitude 32.4268172. Longitude -103.6438142
UL "B", Sec 02; T22S R32 E. Lea County
Surface : Federal (BLM)
Source: Treated produced water
Volume: 30 bbls released. 20 bbls recovered. Net 10 bbls
Cause: failure of a polypipe weld

The source of the release has been stopped.
The impacted area has been secured to protect human health and the environment.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed and managed appropriately.

Regards,

Andrew Parker
Environmental Scientist
970-570-9535



Appendix B

Well Logs





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

10/22/2021

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4566 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4566 Pod1.

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

Sincerely,

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

Lucas Middleton

Enclosures: as noted above

CSE 575 OCT 22 2021 PM 2:32



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4566			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY STATE ZIP Houston TX 77077			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 25	SECONDS 35.34	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	103	38	21.54	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE Lot 1 Sec. 02 T22S R32E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 09/22/21		DRILLING ENDED 09/22/21		DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	
	COMPLETED WELL IS:		<input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

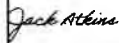
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

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

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, Fine-grained, poorly graded, Brownish Red Dry	Y ✓ N	
	14	24	10	Sand, Fine-grained, poorly graded, with gravel 0.25" Tan Dry	Y ✓ N	
	24	54	20	Sand, Fine-grained, poorly graded, Tan Red Dry	Y ✓ N	
	54	59	5	Sand, Fine-grained, poorly graded, caliche, Tan, Dry	Y ✓ N	
	59	105	46	Sand, Fine-grained, poorly graded, caliche, Red Brown, Dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	10-21-2021 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

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

2021-10-21_C-4566_OSE_Well Record and Log_-forsign

Final Audit Report

2021-10-21

Created:	2021-10-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABANuiDd9d_mUJqQQsQfAg6LdZqTybmXLzJ

"2021-10-21_C-4566_OSE_Well Record and Log_-forsign" History



Document created by Lucas Middleton (lucas@atkinseng.com)

2021-10-21 - 9:04:18 PM GMT- IP address: 174.242.233.24



Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2021-10-21 - 9:04:43 PM GMT



Email viewed by Jack Atkins (jack@atkinseng.com)

2021-10-21 - 10:20:15 PM GMT- IP address: 64.90.153.232



Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2021-10-21 - 10:21:10 PM GMT - Time Source: server- IP address: 64.90.153.232



Agreement completed.

2021-10-21 - 10:21:10 PM GMT

OSE DT: OCT 22 2021 12:30



Adobe Sign



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4566-POD1

Well owner: Advanced Energy Partners

Phone No.: 832.672.4700

Mailing address: 11490 Westheimer Rd. Suite 950

City: Houston

State: Texas

Zip code: 77077

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Shane Eldridge, Carmelo Trevino, Cameron Pruitt
- 4) Date well plugging began: 09/29/21 Date well plugging concluded: 09/29/21
- 5) GPS Well Location: Latitude: 32 deg, 25 min, 35.34 sec
Longitude: 103 deg, 38 min, 21.54 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 07/12/2021
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DT OCT 22 2021 PM 2:35

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

[illegible]

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

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

Jack Atkins

Signature of Well Driller

10-21-2021

Date _____






2021-10-21_C-4566_WD-11 Plugging Record-forsign

Final Audit Report

2021-10-21

Created:	2021-10-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAUOL3tUwXvK9p0MLcPWxM8FjeSHZkENMJ

"2021-10-21_C-4566_WD-11 Plugging Record-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-21 - 9:05:14 PM GMT- IP address: 174.242.233.24
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-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-21 - 10:22:04 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-21 - 10:22:04 PM GMT

05E DT OCT 22 2021 PM2:38

Appendix C

Certificate of Analysis





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

October 27, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: ANDERSON ZEUS RISER

Enclosed are the results of analyses for samples received by the laboratory on 10/20/22 16:10.

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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 01 0-2FT (H224949-01)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	1.99	99.3	2.00	0.336	
Toluene*	<0.025	0.025	10/27/2022	ND	2.03	101	2.00	0.300	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	1.97	98.7	2.00	0.0360	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.25	104	6.00	0.266	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114

Surrogate: Toluene-d8 104 % 95.3-107

Surrogate: 4-Bromofluorobenzene 97.0 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 01SE 0-2FT (H224949-02)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	1.99	99.3	2.00	0.336		
Toluene*	<0.025	0.025	10/27/2022	ND	2.03	101	2.00	0.300		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	1.97	98.7	2.00	0.0360		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.25	104	6.00	0.266		
Total BTEx	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 97.4 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 98.1 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161
 Surrogate: 1-Chlorooctadecane 92.3 % 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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 02 0-2FT (H224949-03)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	1.99	99.3	2.00	0.336	
Toluene*	<0.025	0.025	10/27/2022	ND	2.03	101	2.00	0.300	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	1.97	98.7	2.00	0.0360	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.25	104	6.00	0.266	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 94.7 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.0 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/25/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 97.8 % 45.3-161
 Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 02 2-4FT (H224949-04)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	1.99	99.3	2.00	0.336	
Toluene*	<0.025	0.025	10/27/2022	ND	2.03	101	2.00	0.300	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	1.97	98.7	2.00	0.0360	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.25	104	6.00	0.266	
Total BTEx	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 97.4 % 83.7-114
 Surrogate: Toluene-d8 98.6 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.8 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161
 Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 03 0-2FT (H224949-05)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	1.99	99.3	2.00	0.336		
Toluene*	<0.025	0.025	10/27/2022	ND	2.03	101	2.00	0.300		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	1.97	98.7	2.00	0.0360		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.25	104	6.00	0.266		
Total BTEx	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 97.1 % 83.7-114
 Surrogate: Toluene-d8 99.8 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 98.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/25/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 45.3-161
 Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 03 2-4FT (H224949-06)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTEx	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 97.2 % 83.7-114

Surrogate: Toluene-d8 99.0 % 95.3-107

Surrogate: 4-Bromofluorobenzene 99.5 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.0 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 03N 0-2FT (H224949-07)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 103 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.0 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 45.3-161
 Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 04 0-2FT (H224949-08)

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62		
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12		
Total BTX	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 97.1 % 83.7-114
 Surrogate: Toluene-d8 100 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 98.7 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161
 Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 04S 0-2FT (H224949-09)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62		
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12		
Total BTEx	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 97.9 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.5 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161
 Surrogate: 1-Chlorooctadecane 97.4 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 05 0-2FT (H224949-10)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.9 % 83.7-114
 Surrogate: Toluene-d8 99.5 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.0 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161
 Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 05N 0-2FT (H224949-11)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 99.6 % 83.7-114
 Surrogate: Toluene-d8 100 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.3 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161
 Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 06 0-2FT (H224949-12)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.3 % 83.7-114
 Surrogate: Toluene-d8 99.6 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.9 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161
 Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 06N 0-2FT (H224949-13)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 100 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 95.9 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161
 Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 07 0-2FT (H224949-14)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 95.9 % 83.7-114
 Surrogate: Toluene-d8 99.2 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.5 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161
 Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 07S 0-2FT (H224949-15)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 97.4 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 95.2 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161
 Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 08 0-2FT (H224949-16)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 95.6 % 83.7-114
 Surrogate: Toluene-d8 98.3 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 98.6 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161
 Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 08N 0-2FT (H224949-17)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 97.2 % 83.7-114
 Surrogate: Toluene-d8 98.9 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 98.4 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161
 Surrogate: 1-Chlorooctadecane 91.5 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 08N 2-4FT (H224949-18)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 99.2 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.6 % 50.9-150

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	10/25/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161
 Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 09 0-2FT (H224949-19)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 98.4 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.1 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10 0-2FT (H224949-20)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 95.4 % 83.7-114

Surrogate: Toluene-d8 98.8 % 95.3-107

Surrogate: 4-Bromofluorobenzene 97.4 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 93.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10E 0-2FT (H224949-21)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.3 % 83.7-114
 Surrogate: Toluene-d8 99.8 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 95.4 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 102 % 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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10W 0-2FT (H224949-22)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 88.9 % 83.7-114
 Surrogate: Toluene-d8 103 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 92.4 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 11 0-2FT (H224949-23)

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62		
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12		
Total BTX	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 97.1 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.1 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 12 0-2FT (H224949-24)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 97.0 % 83.7-114

Surrogate: Toluene-d8 101 % 95.3-107

Surrogate: 4-Bromofluorobenzene 97.0 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 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:

ADVANCE ENERGY PARTNERS
 ANDREW PARKER
 11490 WESTHEIMER ROAD, STE. 950
 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/27/2022	Sampling Type:	Soil
Project Name:	ANDERSON ZEUS RISER	Sampling Condition:	Cool & Intact
Project Number:	20220521-0934-CONSTRUCTION	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 12S 0-2FT (H224949-25)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.02	101	2.00	9.62	
Toluene*	<0.025	0.025	10/27/2022	ND	2.07	103	2.00	9.60	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.01	101	2.00	9.73	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.27	104	6.00	9.12	
Total BTEx	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.8 % 83.7-114
 Surrogate: Toluene-d8 98.5 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 98.4 % 50.9-150

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	10/26/2022	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	10/26/2022	ND	214	107	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	213	107	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161
 Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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

Company Name: Advance Energy Partners		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		P.O. #: 20220521-0434-2476			
Address:		Company:			
City:	State:	Zip:	Attn:		
Phone #:	Fax #:	Address:	City:		
Project #:	Project Owner:	State:	Zip:		
Project Location: Anderson Zens River		Phone #:			
Sampler Name: SPACB SAKM		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
				SOIL	OIL
				SLUDGE	OTHER :
		ACID/BASE:	ICE / COOL	OTHER :	
		DATE	TIME		
H224949	GS-01	0-2FT	C 1	10/29/22	8:00am
	GS-01 SE	0-2FT			8:15am
	GS-02	0-2FT			8:30am
	GS-02	0-2FT			8:40am
	GS-03	0-2FT			8:45am
	GS-03	0-2FT			8:50am
	GS-04	0-2FT			9:00am
	GS-04 S	0-2FT			9:10am
	GS-05	0-2FT			9:20am
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Relinquished By: SPACB SAKM		Received By: Advantage Energy Partners		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: 10-20-22		Received By: 10-20-22		All Results are emailed. Please provide Email address:	
Date: 10-20-22		Date: 10-20-22		REMARKS:	
Time: 10:10		Time: 10:10			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	7-5-	Thermometer ID #113	Bacteria (only) Sample Condition
				Correction Factor -0.6°C	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
					Observed Temp. °C
					Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Advanced Environmental Partners						BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Miller						P.O. #: 20020521-0934-0044			
Address:						Company:			
City:						Attn:			
State:						Address:			
Zip:						City:			
Phone #:						State:			
Fax #:						Zip:			
Project #:						Phone #:			
Project Name: 20020521-0934-Construction						Fax #:			
Project Location: Anderson Zoned A site									
Sampler Name:									
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Remarks
H224949									
11	G5-05N	O-2 FT	C				10/24/07	9:36am	Chloride
12	G5-06	O-2 FT	I					9:40am	TPH (6 Ro + Mo + Pro)
13	G5-06N	O-2 FT	I					9:45am	Tbenzene (BTEX)
14	G5-07	O-2 FT	I					10am	
15	G5-07S	O-2 FT	I					10:15am	
16	G5-08	O-2 FT	I					10:30am	
17	G5-08N	O-2 FT	I					10:40am	
18	G5-08N	2-4 FT	I					10:50am	
19	G5-09	O-2 FT	I						
20	G5-10	O-2 FT	I						
<p>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 services. 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.</p>									
Relinquished By: SAVAN SHENZ						Date: 10-20-22		Received By: [Signature]	
Time: 1610						Date: 10-20-22		Received By: [Signature]	
Relinquished By:						Date:		Received By:	
Delivered By: (Circle One)						Observed Temp. °C: 21		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Corrected Temp. °C: 1.5						CHECKED BY: [Signature]		(Initials)	
Turnaround Time:						Standard <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Thermometer ID #113						Correction Factor -0.6°C		Corrected Temp. °C:	
REMARKS:									
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No						Add'l Phone #:			
All Results are emailed. Please provide Email address:									



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Advanced Energy Partners		P.O. #: 0020821-0934-Cardinal	
Project Manager: Robyn Miller		BILL TO	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name: 0020821-0934-Cardinal	Project Location: Anderson Lens Risk	State: Zip:	
Sampler Name: SPAB SPEN2	Fax #:	Phone #:	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS
H224949	65-10E	1	1
31	65-10W	1	1
32	65-11	1	1
33	65-12	1	1
34	65-12S	1	1
35	0-2F1	1	1
DATE		TIME	
10/24/22		11:10am	
11:30am		11:45am	
12pm			
MATRIX		PRESERV	
GROUNDWATER		ICE / COOL	
WASTEWATER		OTHER :	
SOIL		DATE	
OIL		TIME	
SLUDGE			
OTHER :			
ACID/BASE:			
ICE / COOL			
OTHER :			
SAMPLING			
CHLORIDE			
TPH (BIOLOGICAL)			
Benzene, BTX			
ANALYSIS REQUEST			

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Relinquished By: **SPAB SPEN2** Date: **10-20-22** Received By: **Robyn Miller** Time: **10:10**

Relinquished By: Date: Received By: Time:

Delivered By: (Circle One) Observed Temp. °C **21** Sample Condition ☒ Cool ☒ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: (Initials) **V.P.**

Sampler - UPS - Bus - Other: Corrected Temp. °C **1.5** Thermometer ID #113 Standard ☒ Rush ☐ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp. °C

Turnaround Time: Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 156350

COMMENTS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 156350
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
jharimon	Missing Initial C-141 pages	11/4/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 156350

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 156350
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	12/1/2022