

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2136430670
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417
Contact Name: Randy Black	Contact Telephone: 832-672-4700
Contact email: rblack@advanceenergypartners.com	Incident # (assigned by OCD) nAPP2136430670
Contact mailing address: 11490 Westheimer Rd. Suite 950. Houston, TX 77077	

Location of Release Source

Latitude 32.449928 _____ Longitude -103.60744 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dagger State SWD #001	Site Type Salt Walter Disposal well
Date Release Discovered 12/29/2021 @ 12:15 pm	API# (if applicable) 30-025-45815

Unit Letter	Section	Township	Range	County
G	30	21S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.6 bbls	Volume Recovered (bbls) 1 bbl
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Corroded 1/2 inch valve failure on Train 2 Discharge line at the wellhead. On the crown from the injection line.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Andrew Parker</u> Title: <u>Env. Scientist</u> Signature: <u></u> Date: <u>12/30/2021</u> email: <u>aparker@advanceenergypartners.com</u> Telephone: <u>970-570-9535</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>2/13/2022</u>

NAPP2136430670

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	1029.50
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[-]	0.15
Output	volume of fluid	[feet^3]	54.0
		[gal]	404.3
		Barrels	9.6

From GIS

Sq. Ft 4118

Depth (ft) 0.25

Cu. Ft 1029.5

Cu. Yrds 38

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? Plates 2 & 3	<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? Plate 4	<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)? Plate 4	<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? Plate 5	<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? Plate 4	<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? Plate 4	<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? Plate 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? Plate 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? Plate 7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? Plate 8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? Plate 9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

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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 Parker

Title: Env. Scientist

Signature: 

Date: January 31, 2022

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: Ramona Marcus

Date: 2/13/2022

Incident ID	nAPP2136430670
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Remediation Plan

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

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

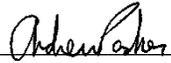
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

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

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

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: January 21, 2022

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Ramona Marcus

Date: 2/13/2022

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS

Action 69602

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	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	Dagger SWD 1 20211229-1215-water
Date Release Discovered	12/29/2021
Surface Owner	State

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 10 BBL Recovered: 1 BBL Lost: 9 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 (continued)

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, to whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, when	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	<i>Not answered.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

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	<i>Not answered.</i>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<i>Not answered.</i>
All free liquids and recoverable materials have been removed and managed appropriately	<i>Not answered.</i>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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 69602

ACKNOWLEDGMENTS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	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 69602

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 69602
	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.	12/30/2021

Andrew Parker

From: Andrew Parker
Sent: Thursday, January 13, 2022 7:17 AM
To: Enviro, OCD, EMNRD
Cc: Bratcher, Mike, EMNRD
Subject: Incident number nAPP2136430670; 48 hour sampling notification 20211229-1215-water (Dagger SWD 1)

Follow Up Flag: Follow up
Flag Status: Flagged

NMOCD,

Per 19.15.29 NMAC, please accept this email as the 48 hour notice for initial characterization sampling at the Dagger SWD #1 for incident number nAPP2136430670. Characterization samples have the potential to be used for confirmation sampling for deferral of a release on an active production site used for oil and gas operations.

Regards,

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 30, 2021 8:32 AM
To: Andrew Parker <AParker@advanceenergypartners.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 69602

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#) nAPP2136430670, 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 nAPP2136430670, 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



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

January 30, 2022

RE:

Characterization & Remediation Workplan
Incident #: nAPP2136430670
AEP #: 20211229-1215-water
Location: Dagger State SWD #1 (30-025-45815)

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

NMOCD:

Advance Energy Partners Hat Mesa LLC (Advance Energy) submits this characterization report and remediation & restoration workplan for the above referenced incident. The release occurred on December 29, 2021 from the failure of a corroded 1/2 inch valve on the crown from the injection line to the wellhead. The calculated volume of released produced water was 9.6 barrels; one barrel was recovered.

The release was contained on an active production pad for oil and gas operations and occurred on State Trust Lands. The coordinates of the release point are 32.449928, -103.60744 (Lat, Long; NAD83). The release did not impact surface or groundwater.



Figure 1: Photo of release area from southern extent viewing north.
Date/Time: 2021-12-29 13:54:00. GPS: 32.4497369 N, 103.6076533 W.

Incident #: nAPP2136430670
AEP #:20211229-1215-water

1. Characterization

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

1.1. Site Map

Horizontal extent of the release was determined by visual observations the day of the release and mapped using GPS technology with sub-meter accuracy.

Plate 1 shows the release extent and initial soil characterization points relative to the active production pad and the Dagger State SWD #1 well. The source of the release is located at 32.4415458, -103.5433673 (Lat, Long; NAD83). Table 1 contains the coordinates of the initial characterization sample points. The release extent covered an area of approximately 4,118 sq. ft.

1.2. Depth to Ground Water

In September/October 2021, Advance Energy initiated a depth-to-water boring program to determine whether depth-to-water is present in the upper 100-feet of the surface soil profile. Nine (9) boreholes were advanced between 103 to 105-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring to the subject release is located 0.21-miles northeast. No groundwater was detected within the upper 100-feet. Plate 2 is a map showing the location of the depth-to-water boring relative to the release extent. The borehole is identified as MISC-403 and is logged as CP-1882 in the OSE database. The driller log is located in Appendix A.

1.3. Wellhead Protection Area

Plate 3 shows that the release extent is not:

- Within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within ½-mile private and domestic water sources (wells and springs).
- 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
- Within 1000 feet of any other fresh water well or spring

Incident #: nAPP2136430670
AEP #:20211229-1215-water

1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is not:

- Within ½ mile of any significant water course.
- Within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

1.5. Soil/Waste Characteristics

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

Hand auger/split spoon sampling during the collection of the initial characterization samples showed the lithology as:

- 0 - 1 ft : Caliche Pad.
- 1 - 2 ft : Silty sand, reddish brown, medium density.
- 2 - 3 ft : Silty sand, reddish brown, dense.

Initial characterization sampling of the release was determined by collecting six (6) soil samples along the perimeter of the release and five (5) samples within the release extent (Plate 1). Soil sampling was limited to the upper 3 to 4-feet of the soil column.

Table 2 summarizes the analytical results, where

- All samples exhibit TPH, benzene, and BTEX concentrations below laboratory detection levels.
- The six (6) soil samples around the perimeter exhibited chloride concentrations <600 mg/kg.
- The five (5) soil samples within the release extent exhibited chloride concentrations below Closure Criteria for in-use on an active production site (19.15.29.12.C.(2) NMAC), where
 - 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
- All samples within the release extent were characterized to a depth of 3-feet below ground surface (bgs).
- The highest chloride concentration was at sample G-07 from 2 to 3 bgs that exhibited a concentration of 2,280 mg/kg.

Laboratory Certificate of Analysis is located in Appendix B.

01/30/2022

Incident #: nAPP2136430670
AEP #:20211229-1215-water

2. Remediation & Restoration Workplan

Additional soil samples will be collected for laboratory confirmation for constituents listed in Table 1 of 19.15.29 NMAC to a depth of 4.5 feet bgs. Each soil sample shall not be representative of more than 350 square feet. Plate 10 shows the proposed sample grid with associated square footage. Plate 11 shows the proposed confirmation soil sample locations relative to the sample grid.

Each soil sample will vertically delineate to the following closure criteria, where depth to water is greater than 100-ft, as defined in Table 1 of 19.15.29 NMAC.

- 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

Proposed sample depths at each sample location:

- 0 – 1 ft composite
- 1 – 2 ft composite, and
- a soil sample from 2 to 4 feet and at 4.5-feet below ground surface if field screening levels suggest an exceedance of the above listed closure criteria or if the two samples in the upper 2-feet exhibit an increase in field screening levels.

It is anticipated that confirmation sampling will meet Closure Criteria for on-site use of an active production pad. Therefore, no remediation is expected; and volume of excavated material is zero. After confirmation sampling, the surface will be restored to an active production site.

If confirmation sample results exhibit concentrations exceeding the above closure criteria, we will submit a revised remediation and restoration workplan.

Confirmation sampling will begin within 30-days of workplan approval. If confirmation samples meet the closure standards referenced in Table 1 of 19.15.29 NMAC, we will submit a closure report within 45-days of laboratory results.

01/30/2022

Released to Imaging: 2/13/2022 10:29:29 AM

Incident #: nAPP2136430670
AEP #:20211229-1215-water

When the production site is no longer in use for oil and gas operations, the surface shall be remediated, restored, and reclaimed per 19.15.29.13.D

Please contact me with any questions at 970-570-9535.

Sincerely,
Advance Energy Partners Hat Mesa, LLC



Andrew Parker
Env. Scientist

Copy: Shane McNeely, Ameredev II, LLC
Floyd Hammond, Ameredev II, LLC

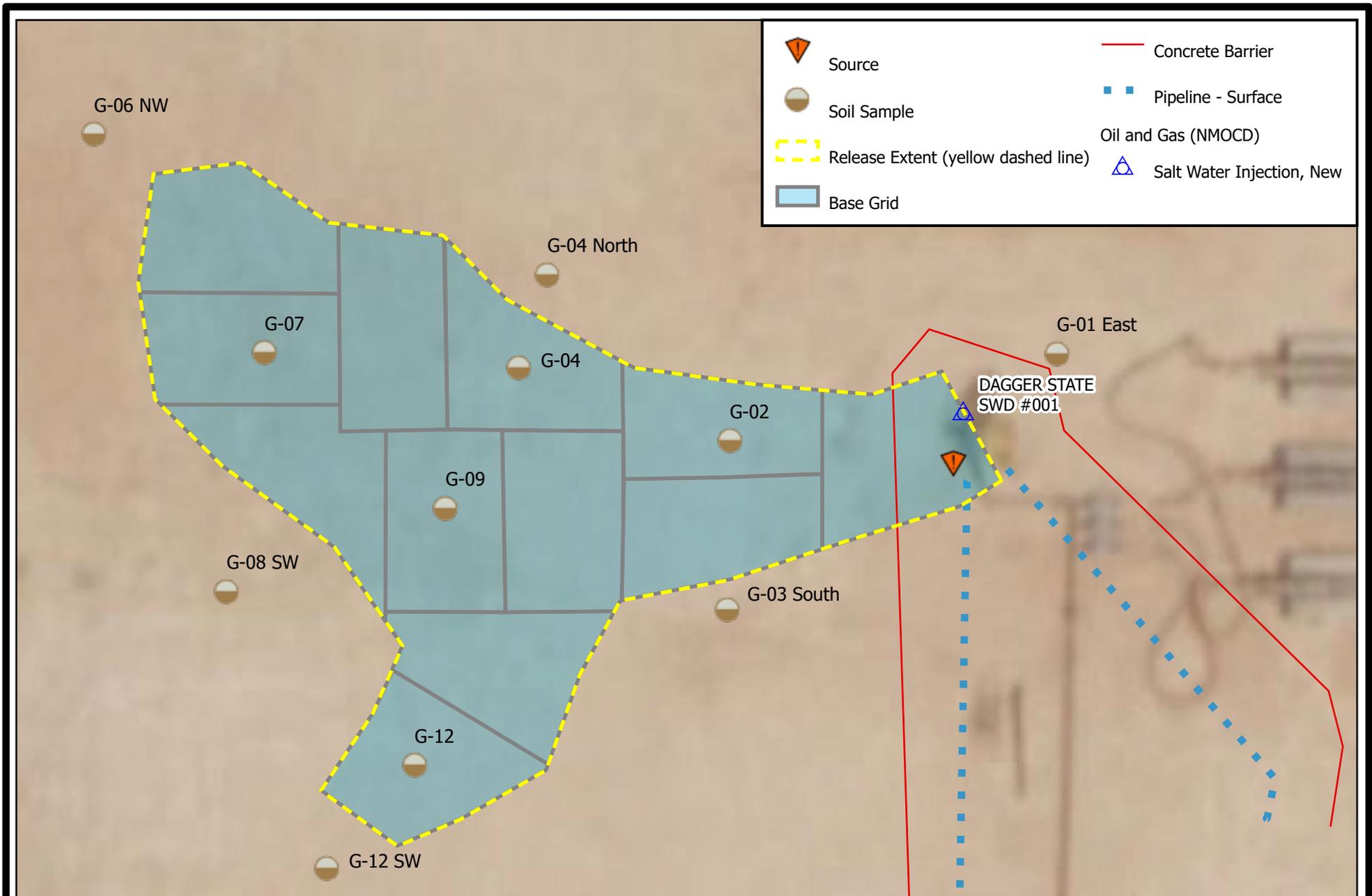
01/30/2022

Released to Imaging: 2/13/2022 10:29:29 AM

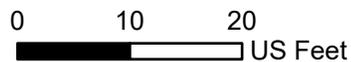


Plates





	Source		Concrete Barrier
	Soil Sample		Pipeline - Surface
	Release Extent (yellow dashed line)		Oil and Gas (NMOCD)
	Base Grid		Salt Water Injection, New



Initial Sample Points Relative to Release Extent and Dagger State SWD #1	Plate 01
Incident #: nAPP2136430670	01/30/2022
AEP #: 20211229-1215-water	



MISC-403
(CP-1882)
>106
10/07/2021

DAGGER STATE
SWD #001

Release Extent

Release Extent (yellow dashed line)

Misc. Water Wells (Well ID, DTW)

Well Depth (ft)

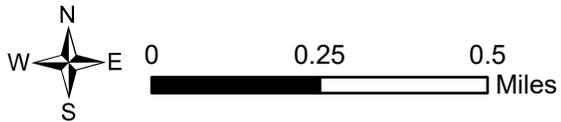
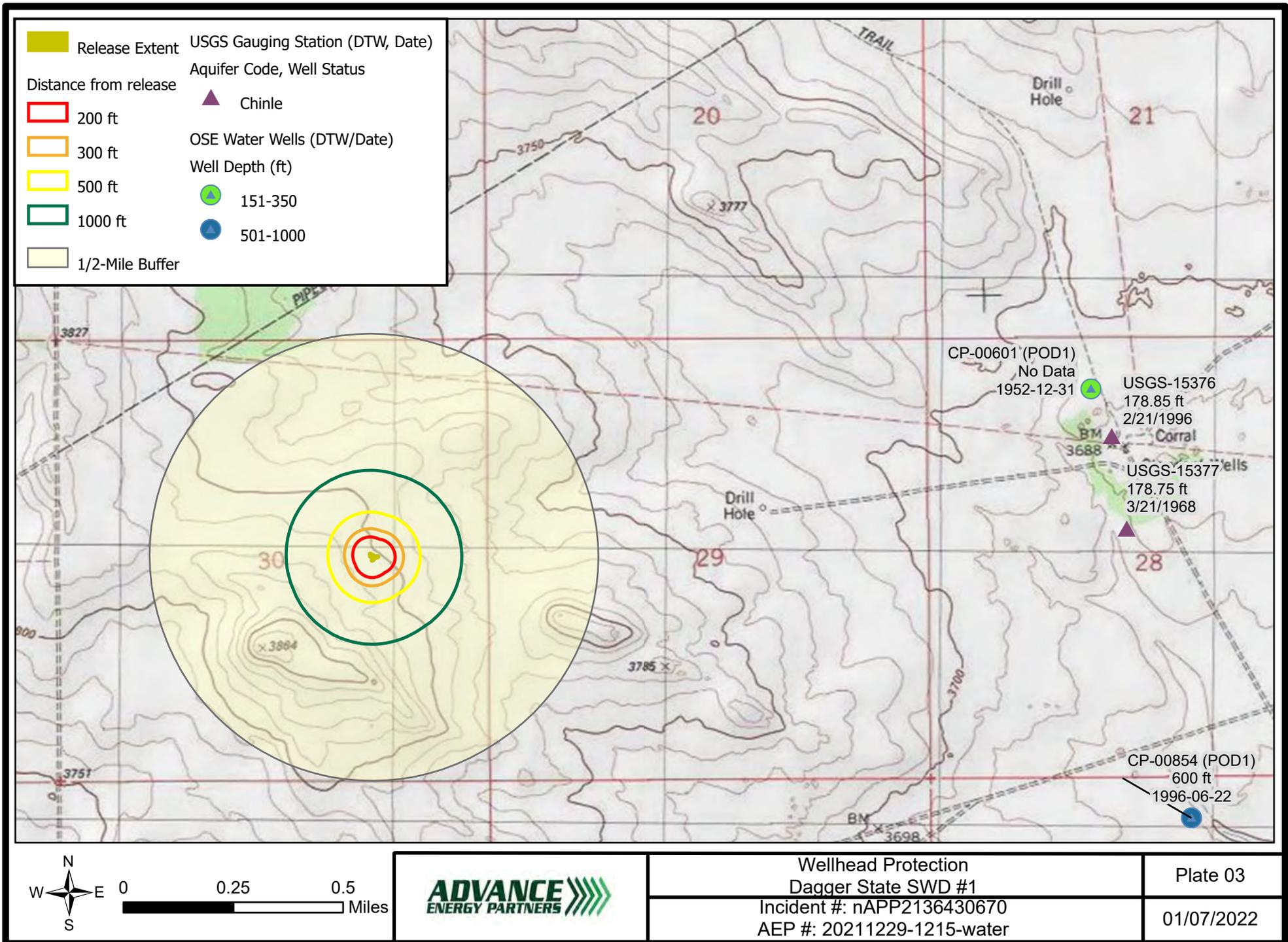
<= 150

Oil and Gas (NMOCD)

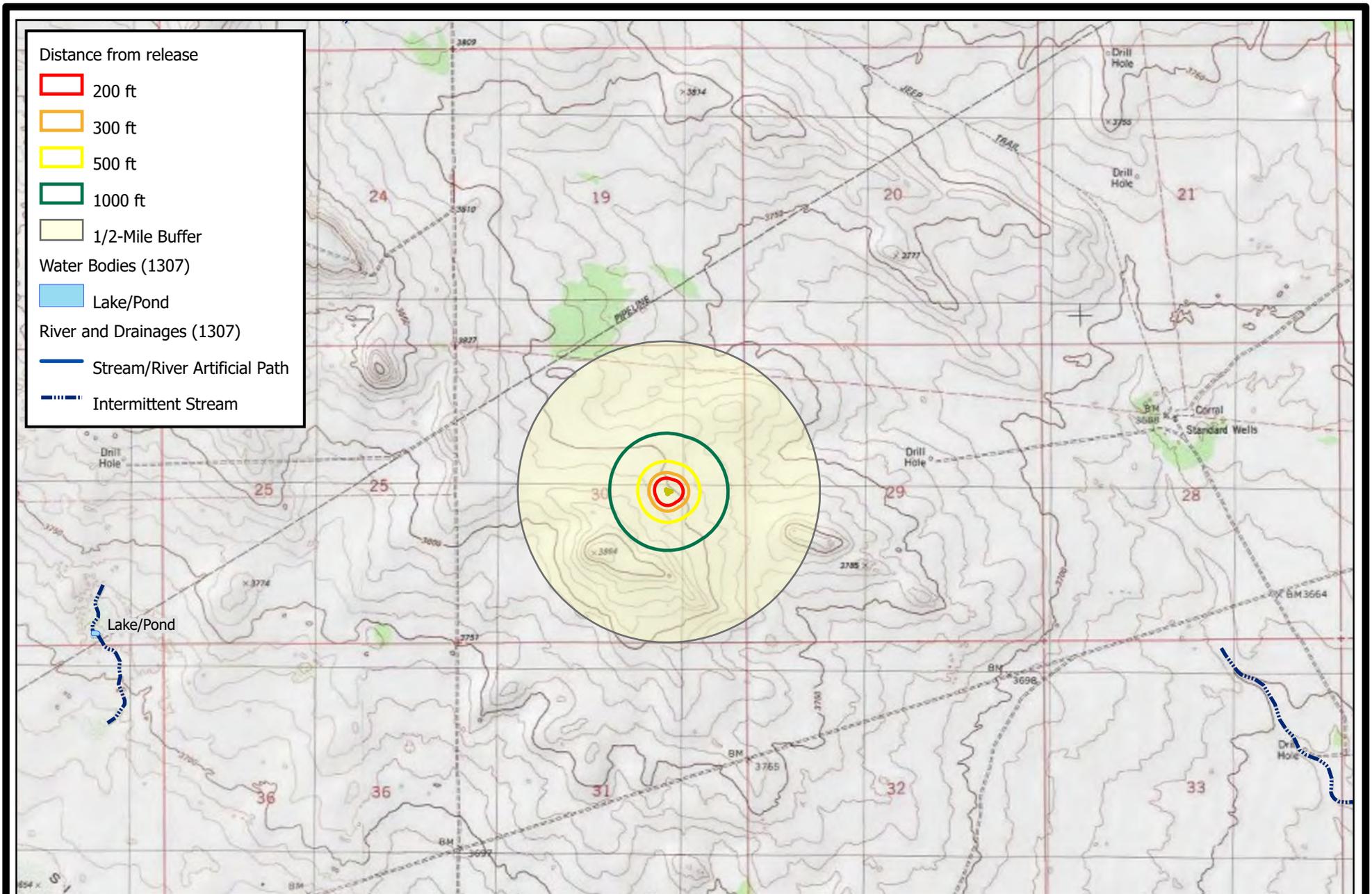
Salt Water Injection, New



Depth to Water Dagger State SWD #1	Plate 02
Incident #: nAPP2136430670 AEP #: 20211229-1215-water	01/07/2022

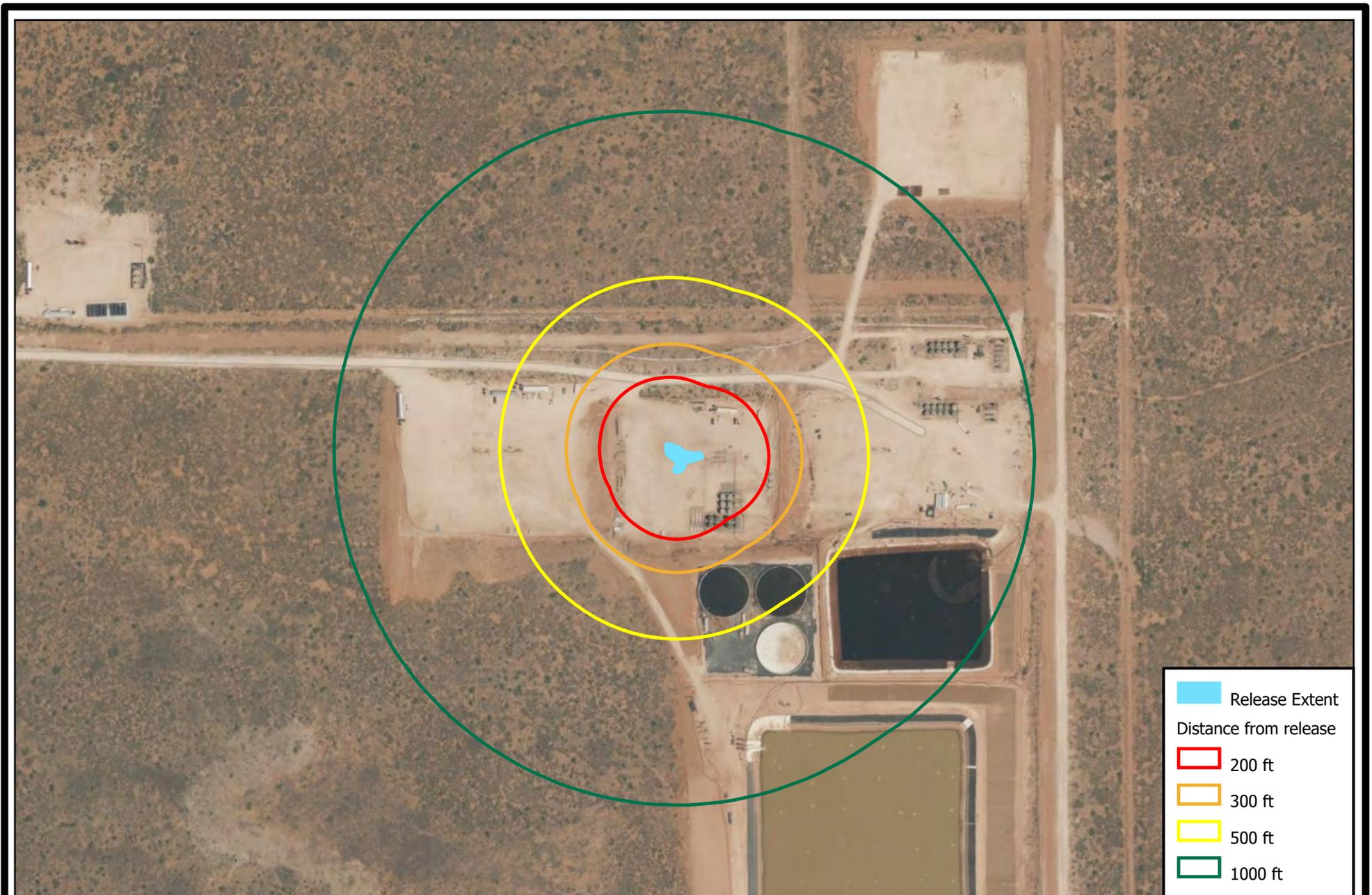


Wellhead Protection Dagger State SWD #1	Plate 03
Incident #: nAPP2136430670 AEP #: 20211229-1215-water	01/07/2022



Significant Watercourses Dagger State SWD #1
Incident #: nAPP2136430670 AEP #: 20211229-1215-water

Plate 04
01/07/2022



	Release Extent
	Distance from release
	200 ft
	300 ft
	500 ft
	1000 ft

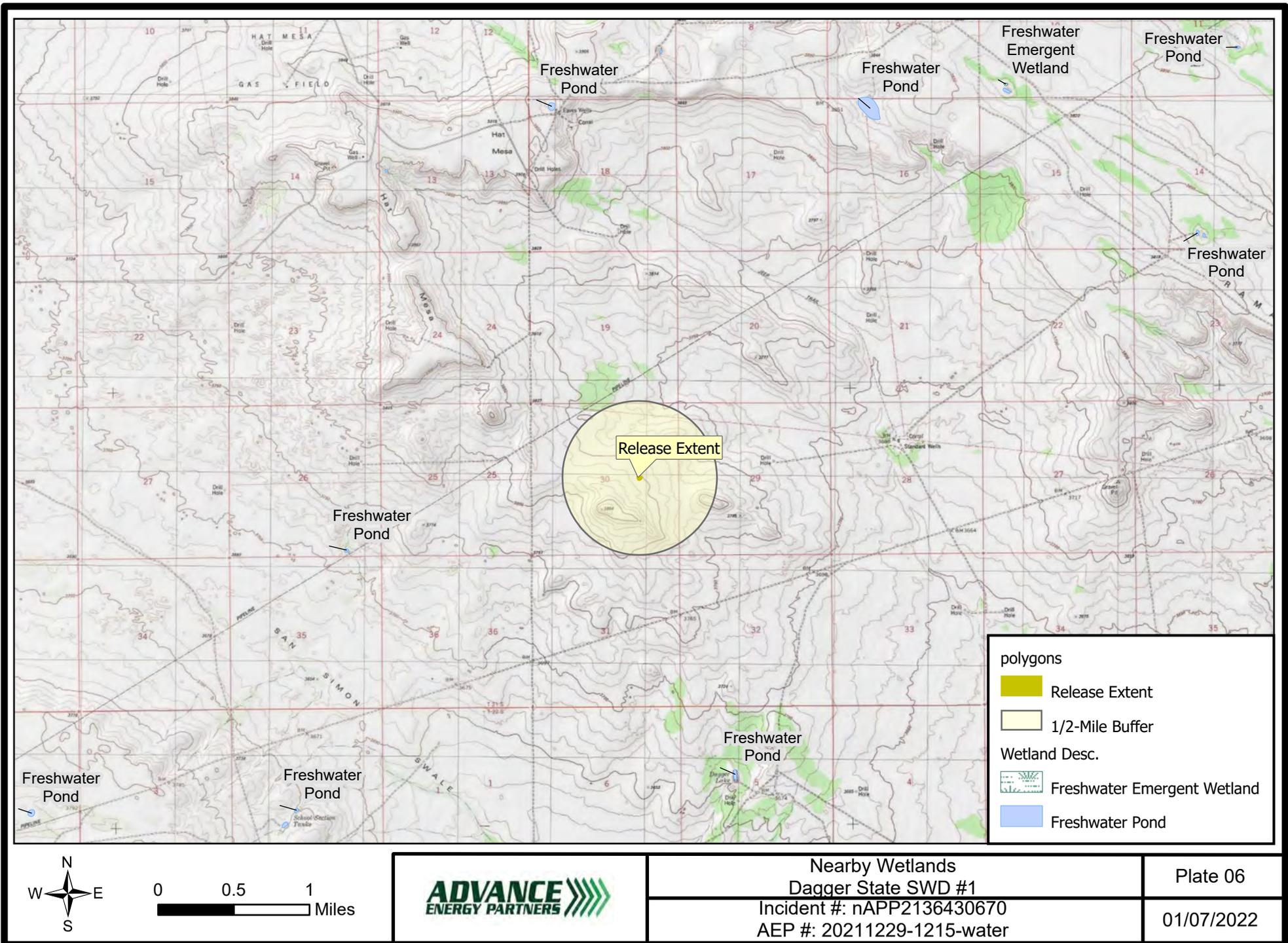


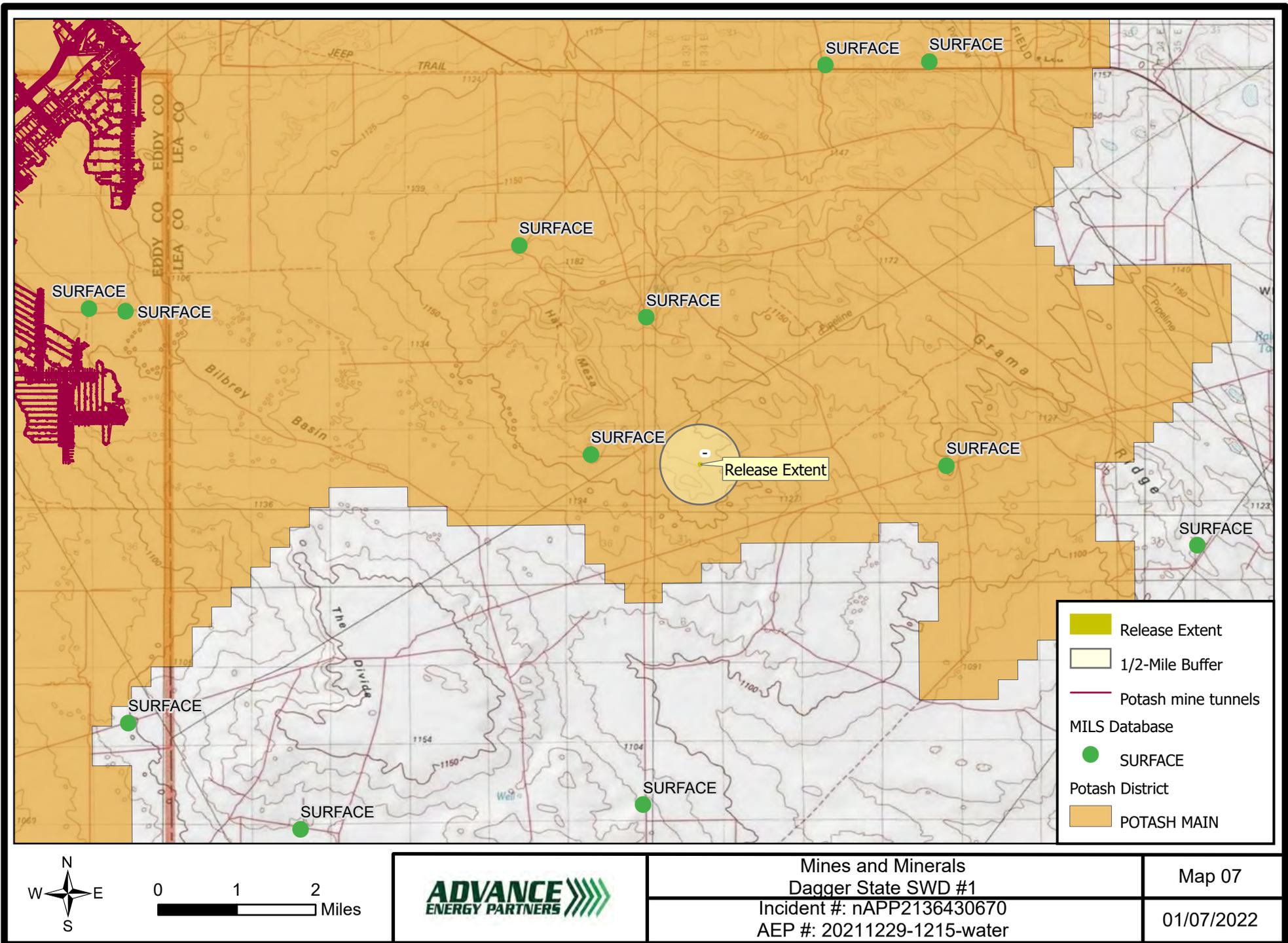
0 200 400
US Feet

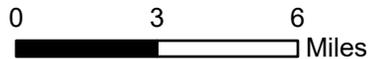
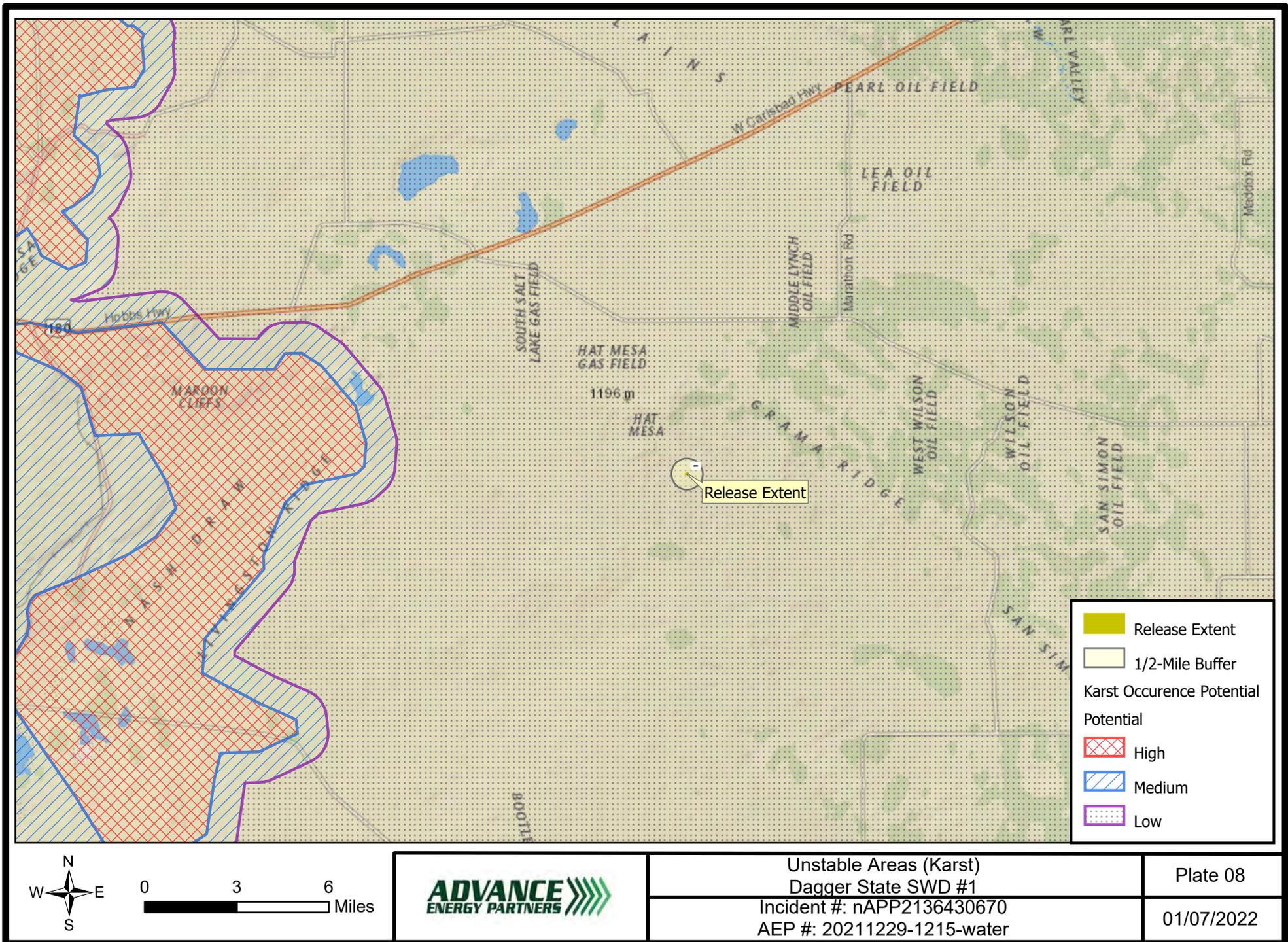


Nearby Structures Dagger State SWD #1
Incident #: nAPP2136430670 AEP #: 20211229-1215-water

Plate 5
01/07/2022







Unstable Areas (Karst)
 Dagger State SWD #1
 Incident #: nAPP2136430670
 AEP #: 20211229-1215-water

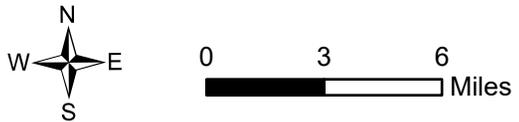
Plate 08

01/07/2022



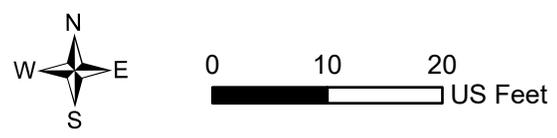
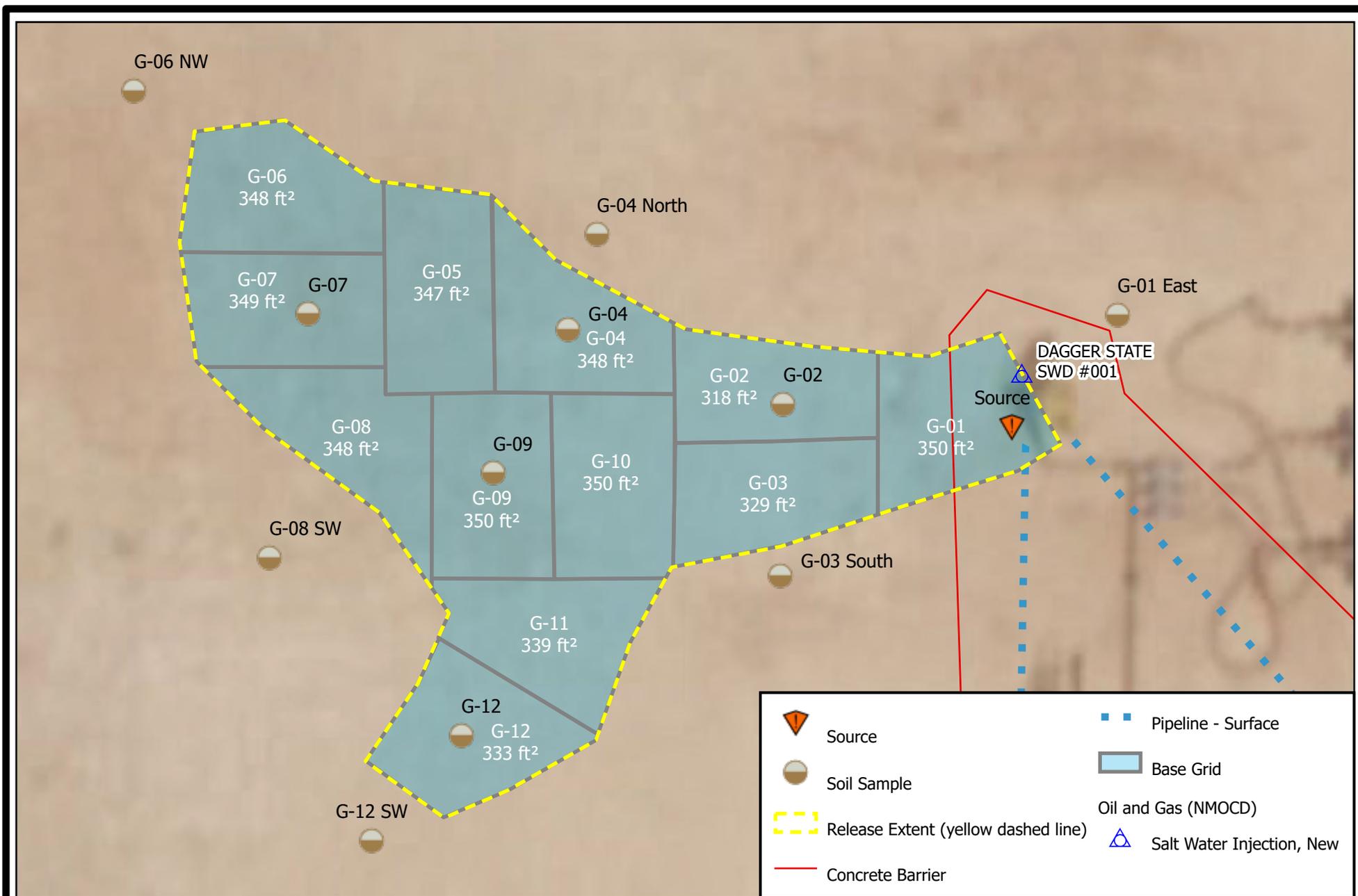
USA Flood Hazard Areas

- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Regulatory Floodway

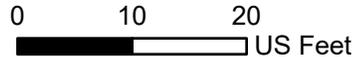
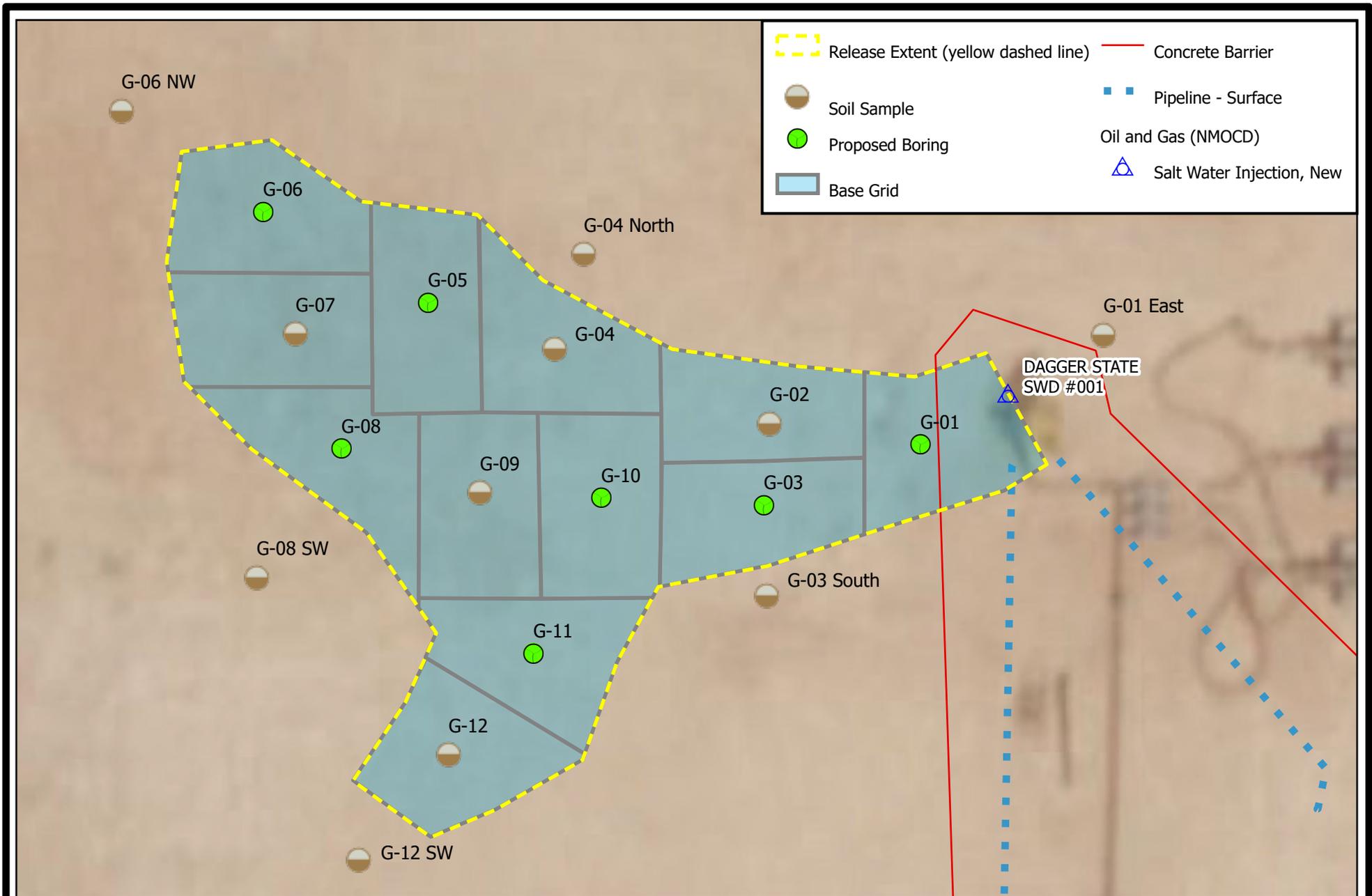


Flood Hazards Dagger State SWD #1 Incident #: nAPP2136430670 AEP #: 20211229-1215-water

Plate 09 01/07/2022



Proposed Sample Grid Square Footage Dagger State SWD #1	Plate 10
Incident #: nAPP2136430670	01/30/2022
AEP #: 20211229-1215-water	



Proposed Additional Sample Points Dagger State SWD #1
Incident #: nAPP2136430670 AEP #: 20211229-1215-water

Plate 11
01/30/2022

Tables



Sample ID	Latitude	Longitude
G-01 East	32.4499360794945	-103.607394611843
G-02	32.4499238675429	-103.607523427631
G-03 South	32.449864684981	-103.607525053919
G-04	32.4499500182929	-103.607610607904
G-04 North	32.4499826410187	-103.607598531264
G-06 NW	32.4500297813941	-103.607777288679
G-07	32.4499559028626	-103.60771582067
G-08 SW	32.4498861709754	-103.607708060345
G-09	32.44990085653	-103.60764132631
G-12	32.4498106889028	-103.607654870289
G-12 SW	32.4497799028374	-103.607685672137

Table 2
Summary of Analytical

Sample ID	Date	Comments	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria									
0 - 4 feet & "not in-use"					600	--	2,500	10	50
> 4 ft or "in-use"					20,000	1,000	2,500	10	50
G-01 East	1/17/2022	Perimeter	0.0	1.0	128	<20	<30	<0.05	<0.3
G-01 East	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-01 East	1/17/2022	Perimeter	3.0	4.0	32	<20	<30	<0.05	<0.3
G-02	1/17/2022	Release	0.0	1.0	2120	<20	<30	<0.05	<0.3
G-02	1/17/2022	Release	1.0	2.0	48	<20	<30	<0.05	<0.3
G-02	1/17/2022	Release	2.0	3.0	48	<20	<30	<0.05	<0.3
G-03 South	1/17/2022	Perimeter	0.0	1.0	192	<20	<30	<0.05	<0.3
G-03 South	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-03 South	1/17/2022	Perimeter	2.0	3.0	16	<20	<30	<0.05	<0.3
G-04	1/17/2022	Release	0.0	1.0	1100	<20	<30	<0.05	<0.3
G-04	1/17/2022	Release	1.0	2.0	480	<20	<30	<0.05	<0.3
G-04	1/17/2022	Release	2.0	3.0	880	<20	<30	<0.05	<0.3
G-04 North	1/17/2022	Perimeter	0.0	1.0	144	<20	<30	<0.05	<0.3
G-04 North	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-04 North	1/17/2022	Perimeter	2.0	3.0	48	<20	<30	<0.05	<0.3
G-06 NW	1/17/2022	Perimeter	0.0	1.0	64	<20	<30	<0.05	<0.3
G-06 NW	1/17/2022	Perimeter	1.0	2.0	64	<20	<30	<0.05	<0.3
G-06 NW	1/17/2022	Perimeter	2.0	3.0	192	<20	<30	<0.05	<0.3
G-07	1/17/2022	Release	0.0	1.0	1580	<20	<30	<0.05	<0.3
G-07	1/17/2022	Release	1.0	2.0	416	<20	<30	<0.05	<0.3
G-07	1/17/2022	Release	2.0	3.0	2280	<20	<30	<0.05	<0.3
G-08 SW	1/17/2022	Perimeter	0.0	1.0	32	<20	<30	<0.05	<0.3
G-08 SW	1/17/2022	Perimeter	1.0	2.0	32	<20	<30	<0.05	<0.3
G-08 SW	1/17/2022	Perimeter	2.0	3.0	240	<20	<30	<0.05	<0.3

Table 2
Summary of Analytical

Sample ID	Date	Comments	Top Depth (Feet)	Bottom Depth (Feet)	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria									
0 - 4 feet & "not in-use"					600	--	2,500	10	50
> 4 ft or "in-use"					20,000	1,000	2,500	10	50
G-09	1/17/2022	Release	0.0	1.0	880	<20	<30	<0.05	<0.3
G-09	1/17/2022	Release	1.0	2.0	720	<20	<30	<0.05	<0.3
G-09	1/17/2022	Release	2.0	3.0	1580	<20	<30	<0.05	<0.3
G-12	1/17/2022	Release	0.0	1.0	2160	<20	<30	<0.05	<0.3
G-12	1/17/2022	Release	1.0	2.0	320	<20	<30	<0.05	<0.3
G-12	1/17/2022	Release	2.0	3.0	496	<20	<30	<0.05	<0.3
G-12 SW	1/17/2022	Perimeter	0.0	1.0	144	<20	<30	<0.05	<0.3
G-12 SW	1/17/2022	Perimeter	1.0	2.0	160	<20	<30	<0.05	<0.3
G-12 SW	1/17/2022	Perimeter	2.0	3.0	208	<20	<30	<0.05	<0.3

Appendix A

Well Logs





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

10/29/2021

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1882 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, CP-1882 Pod1.

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

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive style.

Lucas Middleton

Enclosures: as noted above

OSE DIT NOV 1 2021 PM4142



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). CP-1882			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 27	7.70	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	103	36	17.7	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE NE Sec. 30 T21S R33E								
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 10/06/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 106	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	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	106	±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	

2021-10-28_CP-1882_OSE_Well Record and Log-forsigned

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAnssS7mjb_msszUkFnzTQWpA1ol8YdAXL

"2021-10-28_CP-1882_OSE_Well Record and Log-forsigned" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:54:49 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:55:18 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:17:34 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:18:13 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:18:13 PM GMT

OSE BIT NO 1 2021 P4145





PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1882-POD1
Well owner: Advanced Energy Partners Phone No.: 832.672.4700
Mailing address: 11490 Westheimer Rd. Stuit 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: 10/14/2021 Date well plugging concluded: 10/14/2021
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 7.70 sec
Longitude: 103 deg, 36 min, 17.7 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 106 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: 07/08/2021
- 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):

2/10/2022 2:03:19 PM

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

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	15.6 gallons	15 gallons	Augers	
10'-106'	Drill Cuttings	Approx. 152 gallons	152 gallons	Boring	

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

CSSE 017 1701 2021 PM2143

III. SIGNATURE:

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

Jack Atkins

10/29/2021

Signature of Well Driller

Date

2021-10-28_CP-1882__WD-11 Plugging Record-forsign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAJ56zL5gGf8mtJumZGiLTdDB7pgJ8zerB

"2021-10-28_CP-1882__WD-11 Plugging Record-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:55:07 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:55:26 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:16:44 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:17:17 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:17:17 PM GMT

SEE DT NOV 1 2021 PM 4:43



Appendix B

Certificate of Analysis





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

January 20, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: DAGGER SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/17/22 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-01 EAST 0-1' (H220181-01)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.99	99.4	2.00	3.67		
Toluene*	<0.050	0.050	01/18/2022	ND	1.93	96.7	2.00	3.51		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.91	95.5	2.00	3.66		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.77	96.1	6.00	3.95		
Total BTEX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/19/2022	ND	400	100	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	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-01 EAST 1-2' (H220181-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2022	ND	400	100	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	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-01 EAST 3-4' (H220181-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2022	ND	400	100	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-04 NORTH 0-1' (H220181-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/19/2022	ND	400	100	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	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.5 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-04 NORTH 1-2' (H220181-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2022	ND	400	100	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	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 93.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-04 NORTH 2-3' (H220181-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.5 % 59.5-142

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

Received:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-06 NW 0-1' (H220181-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	221	111	200	5.87	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	222	111	200	5.09	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-06 NW 1-2' (H220181-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-06 NW 2-3' (H220181-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.4 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-08 SW 0-1' (H220181-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.8 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-08 SW 1-2' (H220181-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.0 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-08 SW 2-3' (H220181-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773		
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85		
Total BTEX	<0.300	0.300	01/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-12 SW 0-1' (H220181-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.2 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-12 SW 1-2' (H220181-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-12 SW 2-3' (H220181-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.0 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-03 SOUTH 0-1' (H220181-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.2 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-03 SOUTH 1-2' (H220181-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-03 SOUTH 2-3' (H220181-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-02 0-1' (H220181-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-02 1-2' (H220181-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-02 2-3' (H220181-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.80	89.8	2.00	0.773	
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.5	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.96	98.0	2.00	4.43	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	6.24	104	6.00	4.85	
Total BTEX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-04 0-1' (H220181-22)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	QM-07, QR-03	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	QR-03	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	QR-03	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	QR-03	
Total BTEX	<0.300	0.300	01/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-04 1-2' (H220181-23)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-04 2-3' (H220181-24)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-07 0-1' (H220181-25)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-07 1-2' (H220181-26)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-07 2-3' (H220181-27)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839		
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268		
Total BTEX	<0.300	0.300	01/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	98.8	200	3.45		
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	5.22		
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND						

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.7 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-09 0-1' (H220181-28)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-09 1-2' (H220181-29)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-09 2-3' (H220181-30)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-12 0-1' (H220181-31)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2022	ND	1.79	89.4	2.00	0.839	
Toluene*	<0.050	0.050	01/18/2022	ND	1.80	90.2	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/18/2022	ND	1.85	92.5	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/18/2022	ND	5.65	94.1	6.00	0.268	
Total BTEX	<0.300	0.300	01/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-12 1-2' (H220181-32)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480	
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42	
Total BTEX	<0.300	0.300	01/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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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:	01/17/2022	Sampling Date:	01/17/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	DAGGER SWD	Sampling Condition:	Cool & Intact
Project Number:	AEP20211229-1215-WATER	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: G-12 2-3' (H220181-33)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480	
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42	
Total BTEX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.4 % 59.5-142

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: Abmco Enrgy Partners
 Project Manager: Andrew Parker

BILL TO
 P.O. #: 20211229-1215- WATER

Address: _____ State: _____ Zip: _____
 City: _____ Attn: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____

Project Name: AGP 20211229-1215 - WATER
 Project Location: Dogger SW 0

Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Sampler Name: SA005 SAEN2

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
H220181									
01	G-01 EAST	G	1	X SOIL	K		1/17/22	8:30am	Chloride
02	G-01 EAST							8:40am	TPH (GRO + DRO + MPO)
03	G-01 EAST							8:50am	Benzene, BTEX
04	G-04 North							9:00am	
05	G-04 North							9:15am	
06	G-04 North							9:20am	
07	G-06 NW							9:30am	
08	G-06 NW							9:45am	
09	G-06 NW							9:50am	
10	G-08 SW							10:00am	

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Relinquished By: SA005 SAEN2
 Date: 1/17/22 Received By: [Signature]
 Time: 10:22 Received By: [Signature]

Relinquished By: [Signature]
 Date: _____ Received By: [Signature]
 Time: _____ Received By: [Signature]

Delivered By: [Signature]
 Observed Temp. °C: 18.3
 Corrected Temp. °C: 5.8

Sampler - UPS - Bus - Other: _____
 Sample Condition: Intact Damaged
 Yes No

Checked By: [Signature]
 Turnaround Time: _____
 Standard Rush
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Yes No No No
 Corrected Temp. °C _____

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: **Advance Energy Partners** P.O. #: **20211229-1215-444**

Project Manager: **Andrew Parker** Address: _____ City: _____ State: _____ Zip: _____

Address: _____ Attn: _____

City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: _____

Project Name: **AEP 20211229-1215-444** Phone #: _____

Project Location: **Dwyer SWO** Fax #: _____

Sampler Name: **Shawn SAENZ**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
14220181									
11	G-08 SW	1-2FT	G 1	X	X		1/17/22	10:10am	Chloride
12	G-08 SW	2-3FT						10:15am	
13	G-12 SW	0-1FT						10:30am	TPH (GRO + DRO + MRO)
14	G-12 SW	1-2FT						10:25am	
15	G-12 SW	2-3FT						10:30am	
16	G-03 South	0-1FT						10:35am	
17	G-03 South	1-2FT						10:40am	
18	G-03 South	2-3FT						10:45am	
19	G-02	0-1FT						10:59am	
20	G-02	1-2FT						10:59am	

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

Relinquished By: **Shawn SAENZ** Date: _____ Received By: **[Signature]** Date: _____

Time: _____

Relinquished By: **[Signature]** Date: _____ Received By: **[Signature]** Date: _____

Time: _____

Observed Temp. °C: **6.3** Sample Condition: Intact Cool Intact

Corrected Temp. °C: **5.8** Yes No Yes No

Turnaround Time: _____ Standard Bacteria (only) Sample Condition

Thermometer ID # **113** Flush Cool Intact

Correction Factor **+0.5** Yes No Yes No

Observed Temp. °C: _____ Corrected Temp. °C: _____

REMARKS: _____

Verbal Result: Yes No Add'l Phone #: _____

All Results are emailed. Please provide Email address: _____

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Adventure Energy Partners
 Project Manager: Andrew Parker
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Adel 2011/29-12/15 - WATER
 Project Location: Dwyer SW
 Sampler Name: 3 ACOLS 3AEN2
 P.O. #: 20211229-1215-WATER
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS
	<u>H220181</u>									
	<u>21 G-02</u>	<u>2-3FT</u>	<u>6</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>1/17/02</u>	<u>11:00am</u>	<u>X</u>	<u>Chloride</u>
	<u>22 G-04</u>	<u>0-1FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:05am</u>	<u>X</u>	<u>TPH (GLO +DRO+MRO)</u>
	<u>23 G-04</u>	<u>1-2FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:10am</u>	<u>X</u>	<u>Benzene, BTEX</u>
	<u>24 G-04</u>	<u>2-3FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:15am</u>		
	<u>25 G-07</u>	<u>0-1FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:20am</u>		
	<u>26 G-07</u>	<u>1-2FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:25am</u>		
	<u>27 G-07</u>	<u>2-3FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:30am</u>		
	<u>28 G-09</u>	<u>0-1FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:35am</u>		
	<u>29 G-09</u>	<u>1-2FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:40am</u>		
	<u>30 G-09</u>	<u>2-3FT</u>	<u>1</u>	<u>1</u>	<u>X</u>			<u>11:45am</u>		

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by clients, its subcontractors, 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 theories or otherwise.

Relinquished By: SAOB SHENZ
 Date: 1/17/02
 Time: 11:45am
 Received By: [Signature]
 Date: _____
 Time: _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: 61.3
 Corrected Temp. °C: 5.8
 Sample Condition: Intact Damaged
 Checked By: [Signature]
 Turnaround Time: _____ Standard Rush
 Thermometer ID: 997 Standard Rush
 Correction Factor: +0.4°C Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: _____
 Yes No Yes No Corrected Temp. °C: _____

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

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

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

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

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

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

CONDITIONS
 Action 78736

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 78736
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	The submitted C-141 is accepted with the following condition(s): The lateral and longitudinal information does not match the ULSTR regarding the release location. Please correct the conflicting information and report back to OCD. The latitude and longitude information on the C-141 resulted in the following ULSTR: 30-H-21S-33E.	2/13/2022