



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

November 16, 2021

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

RE: Characterization & Remediation Workplan
Incident #: nAPP2105360892
AEP #: 20210211-1000-prodops
Location: AO6 State Com #1

NMOCD:

Advance Energy Partners Hat Mesa LLC (Advance Energy) submits this characterization report and remediation plan for incident nAPP2105360892. The release occurred on February 11, 2021 during the transport of frac tanks during the Dagger Lake 5 State 801H workover operations. The calculated volume of released treated produced water was 18 bbls. Completion workover operations delayed characterization efforts and a request for extension was submitted to NMOCD on April 28, 2021. Characterization sampling commenced on August 3, 2021. One sample exceeded closure criteria and the area was further delineated on occurred on October 20, 2021.

The release occurred on an active production site (Figure 1) located on State surface. A portion of the release occurred within an archeological sensitive area, further delaying characterization sampling activities.



Figure 1: West release area. Photo is viewing west toward the edge of the production site from sample id CS-07E. 2021-02-11. Lat/Long: 32.4194861 N, 103.6039667 W

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1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 5. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plates 5-9).

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 1a shows the release extents and source locations relative to the western 2/3rds of the AO 6 State Com #1 production site. Table 1 contains the coordinates of the source points.

The west release extent covers an area of approximately 3,348 sq. ft. The east release extent covers an area approximately 1,386 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 106-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring is located 1,100-feet north-northeast of the release. The boring is identified as MISC-402 (CP-1881). No groundwater was detected within the upper 100-feet. Plate 2 is the depth-to-water map.

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

The well shown on Plate 3 was drilled by Advance Energy to determine depth to water. The borehole was drilled to a depth of 105-feet and plugged and abandoned per the approved OSE plan provided in Appendix A. No groundwater was detected in the upper 100-feet.

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1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is:

- Within ½ mile of a significant water course. The water course is mapped as an intermittent stream 0.25-miles east and cross-gradient to the release location. Surface topography at the release location slopes southwest, parallel with the watercourse direction. Impairment to the watercourse from the release is highly unlikely.
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

1.5. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 105-feet below ground surface (bgs) and on an active production site used for oil and gas operations.

Hand auger during the collection of characterization samples showed the lithology as:

0 - 1 ft : Caliche Pad.

1 – 3 ft : Caliche; soft; light pink/tan; dry

3 – 4 ft: Silty sand; red; loose; dry

Plate 1b shows the locations the characterization sample points. Table 2 summarizes the analytical results, where

- Characterization sample CS-05W exceeded Closure Criteria for TPH in the upper 1.5-feet. GRO/DRO exhibited 2,680 mg/kg. TPH Extended exhibited 2,856 mg/kg. At 2-feet below ground surface all constituents did not exceed the most stringent Closure Criteria per Table 1 of 19.15.29 NMAC.
- Remaining characterization samples exhibited constituents of concern below the Closure Criteria for area in-use on an active production pad, 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

Laboratory Certificate of Analysis is located in Appendix B.

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2. Remediation Plan

With the exception of sample CS-05W in grid G-05W (Plate 1c), we respectively ask NMOCD to approve a sampling area not to be representative of more than 400 square feet. Plate 1c shows the square footage of each representative area. Plate 1d shows proposed additional sample locations. The average sample grid area is 337 square feet.

At sample location CS-05W, the impacted area will be excavated to a depth of 1.5 feet and horizontally until constituents of concern are below Closure Criteria defined above and as listed in Table 1 of 19.15.29 NMAC for areas in-use on an active production site. It is anticipated that the impacted area will not exceed 215 square feet with an excavation volume of 12 cubic yards (215ft x 1.5ft /27). Excavated material will be transported to an approved disposal facility and backfilled with clean material and restored to an active production pad.

Additional confirmation soil samples as presented on Plate 1d will be collected for laboratory analysis for constituents listed in Table 1 of 19.15.29 NMAC. If confirmation sample results exhibit concentrations above Closure Criteria the area will be vertically & horizontally delineated and remediated & restored per 19.15.29.12.C(2) NMAC and 19.15.29.A-C NMAC.

Proposed sample depths at each sample location:

- 0 – 1 ft composite
- 1 – 2 ft composite.

If sampling at greater than 2-feet below ground surface is necessary, an archeological monitor will be required to be present and require additional approval to proceed from the AEP's archeologist.

Additional confirmation sampling will begin within 30-days of remediation plan approval. Remediation of area G-05W and additional areas that exceed Closure criteria will begin within 30-days of receiving laboratory results. When remediation is completed and confirmed with laboratory analysis, we will submit a closure report within 30-days of receiving any additional laboratory results.

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

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Please contact us with any questions.

Sincerely,
Advance Energy Partners Hat Mesa, LLC



Andrew Parker
Env. Scientist

Copy: Randy Black, Advance Energy Partners
Boone Bajgier, Advance Energy Partners
State Land Office

11/16/2021

Andrew Parker

From: OCDOnline@state.nm.us
Sent: Tuesday, February 23, 2021 7:24 AM
To: Andrew Parker
Subject: The Oil Conservation Division (OCD) has accepted the application PO: RWQL4-210222-C-141A.

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* (C-141A), for incident ID (n#) nAPP2105360892, with the following conditions:

- **None**

Please reference nAPP2105360892, 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, please contact me.

Thank you,
Ramona Marcus
Compliance Officer Advanced
505-470-3044
Ramona.Marcus@state.nm.us

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

Incident ID	nAPP2105360892
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? Plate 2	<u>>105</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 3	<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 3 & 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 3	<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


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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: November 16, 2021

email: aparker@advanceenergypartners.com

Telephone: 970-570-9535

OCD Only

Received by: _____

Date: _____

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Application ID	

Remediation Plan


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

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

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

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

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: November 16, 2021email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**

Received by: _____ Date: _____

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 08/01/2022

Andrew Parker

From: Andrew Parker
Sent: Wednesday, October 13, 2021 4:30 PM
To: 'Enviro, OCD, EMNRD'
Subject: FW: 48hr sampling notice Incident # nAPP2105360892

NMOCD,

Please accept this email as the 48 hour characterization sampling notice per 19.15.29 NMAC for Incident # nAPP2105360892 . The characterization sample will be used for confirmation sampling for the forthcoming remediation and closure report. We are obtaining one additional sample to characterize the west release extent. The DTW determination borehole program will be completed tomorrow (Oct 14 2021).

Andrew Parker
Environmental Scientist
970-570-9535



From: Andrew Parker
Sent: Friday, July 30, 2021 6:39 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Boone Bajgier <BBajgier@advanceenergypartners.com>; Jacob Saenz <JSaenz@advanceenergypartners.com>
Subject: 48hr sampling notice Incident # nAPP2105360892

NMOCD,

Please accept this email as the 48 hour characterization sampling notice per 19.15.29 NMAC for Incident # nAPP2105360892 . The characterization samples may be utilized as confirmation samples for the forthcoming closure report.

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535

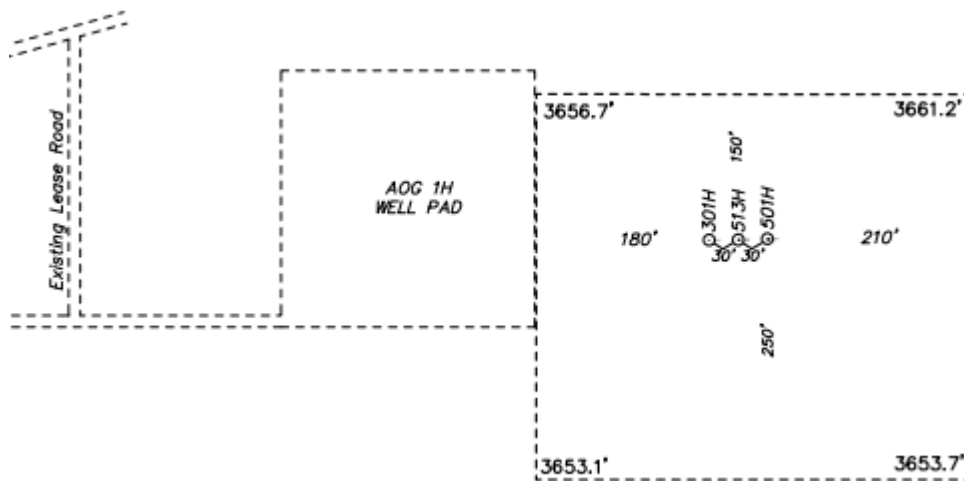


From: Andrew Parker
Sent: Wednesday, April 28, 2021 2:21 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Boone Bajgier <BBajgier@advanceenergypartners.com>; Randy Black <RBlack@advanceenergypartners.com>
Subject: Characterization extension request Incident # nAPP2105360892

NMOCD,

Advance Energy Partners respectively asks NMOCD for a 90-day extension to complete characterization of Incident #: nAPP2105360892 (AO6 State Com #1). The AO6 State Com #1 location is being used as the staging area for the drilling and completion of the Dagger Lake 5 State 301H & 513H wells located at the adjacent well pad 400-feet to the east

Photo of drilling office trailers overlying the western release area.



Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



Tables



11490 Westheimer Rd. Suite 950 Houston, TX 77077

Type	Name	Latitude	Longitude
Source	East Release Source	32.41964629	-103.6033702
Source	West Release Source	32.41954188	-103.604065
Soil Sample	CS-01N	32.41972605	-103.6041295
Soil Sample	CS-04	32.41962117	-103.6040614
Soil Sample	CS-05W	32.41956656	-103.6041564
Soil Sample	CS-06	32.41955681	-103.6040619
Soil Sample	CS-07E	32.41956038	-103.6039564
Soil Sample	CS-09	32.41948655	-103.6040526
Soil Sample	CS-10S	32.41939301	-103.6040662
Soil Sample	CS-11N	32.41970011	-103.6034025
Soil Sample	CS-12	32.41964966	-103.6033506
Soil Sample	CS-13	32.41959451	-103.603354
Soil Sample	CS-13E	32.4195934	-103.6033077
Soil Sample	CS-13W	32.41959227	-103.6034004
Soil Sample	CS-14S	32.41950419	-103.6033469
Soil Sample	G-05.02 W	32.41956264	-103.6041825

Table 2
Summary of Analytical

Incident #: nAPP2105360892
AEP #: 20210211-1000-prodops
AO 6 State Com #1 Production Pad

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (field) mS/cm	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)
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
CS-01 N	8/3/2021		0	1	0.53	96	<30.3	<40.3	<0.05	<0.3
CS-01 N	8/3/2021	1.5			0.64	272	<20	<30	<0.05	<0.3
CS-04	8/3/2021		0	1	0.26	64	<20	<30	<0.05	<0.3
CS-04	8/3/2021	1.5			0.23	64	<20	<30	<0.05	<0.3
CS-05 W	8/3/2021		0	1.5	0.29	128	<2680	<2856	<0.05	<0.3
CS-05 W	8/3/2021	2			0.25	128	<81.9	<91.9	<0.05	<0.3
CS-05.02 W	10/20/2021		0	1	0.27	128	<20	<30	<0.05	<0.3
CS-05.02 W	10/20/2021		1	2	0.29	224	<20	<30	<0.05	<0.3
CS-05.02 W	10/20/2021		2	3	0.47	368	<20	<30	<0.05	<0.3
CS-05.02 W	10/20/2021		3	4	0.07	32	<20	<30	<0.05	<0.3
CS-06	8/3/2021		0	1	0.17	48	<20	<30	<0.05	<0.3
CS-06	8/3/2021	1.5			0.17	16	<20	<30	<0.05	<0.3
CS-07 E	8/4/2021		0	1	0.46	208	<20	<30	<0.05	<0.3
CS-07 E	8/4/2021	1.5			0.15	32	<20	<30	<0.05	<0.3
CS-09	8/4/2021		0	1.5	0.59	448	<20	<30	<0.05	<0.3
CS-09	8/4/2021	2			0.22	80	<20	<30	<0.05	<0.3
CS-10 S	8/4/2021		0	1	0.67	384	<20	<30	<0.05	<0.3
CS-10 S	8/4/2021	1.5			0.17	48	<20	<30	<0.05	<0.3
CS-11 N	8/4/2021		0	1.5	1.15	928	<41.3	<51.3	<0.05	<0.3
CS-11 N	8/4/2021	2			0.22	112	<20	<30	<0.05	<0.3
CS-12	8/4/2021		0	1	1.6	1360	<20	<30	<0.05	<0.3
CS-12	8/6/2021	1.5			0.72	688	<20	<30	<0.05	<0.3
CS-13	8/4/2021		0	1	0.99	608	<45.7	<55.7	<0.05	<0.3
CS-13	8/4/2021	1.5			0.98	656	<20	<30	<0.05	<0.3
CS-13 E	8/5/2021		0	1	1.9	768	<20	<30	<0.05	<0.3
CS-13 E	8/5/2021	2			0.72	480	<20	<30	<0.05	<0.3
CS-13 W	8/4/2021		0	1	0.87	608	<20	<30	<0.05	<0.3
CS-13 W	8/4/2021	1.5			0.63	448	<20	<30	<0.05	<0.3
CS-14 S	8/5/2021		0	1	0.44	192	<20	<30	<0.05	<0.3
CS-14 S	8/5/2021	1.5			0.95	832	<20	<30	<0.05	<0.3
Exceeds closure Std.										

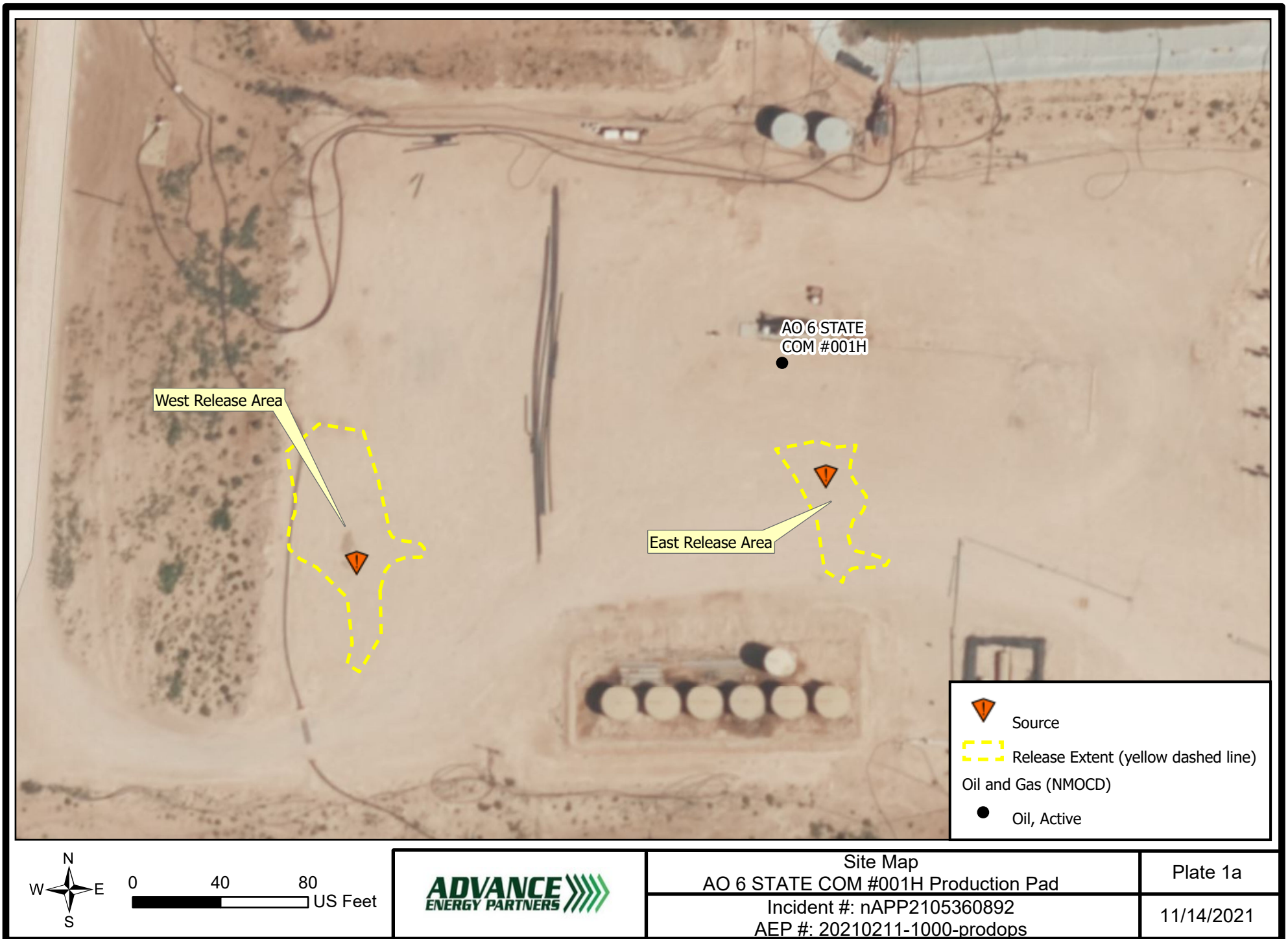
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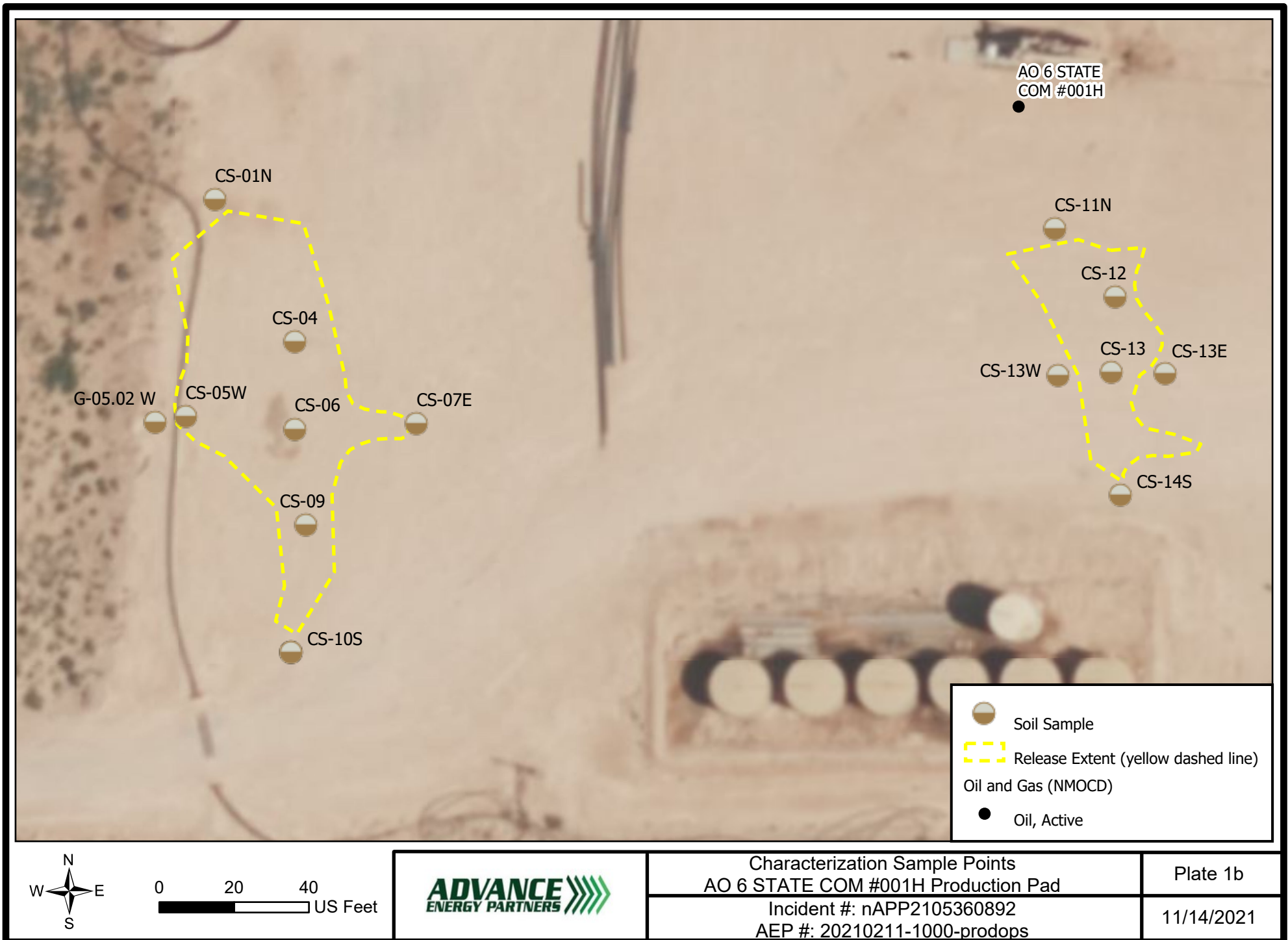
Advance Energy Partners

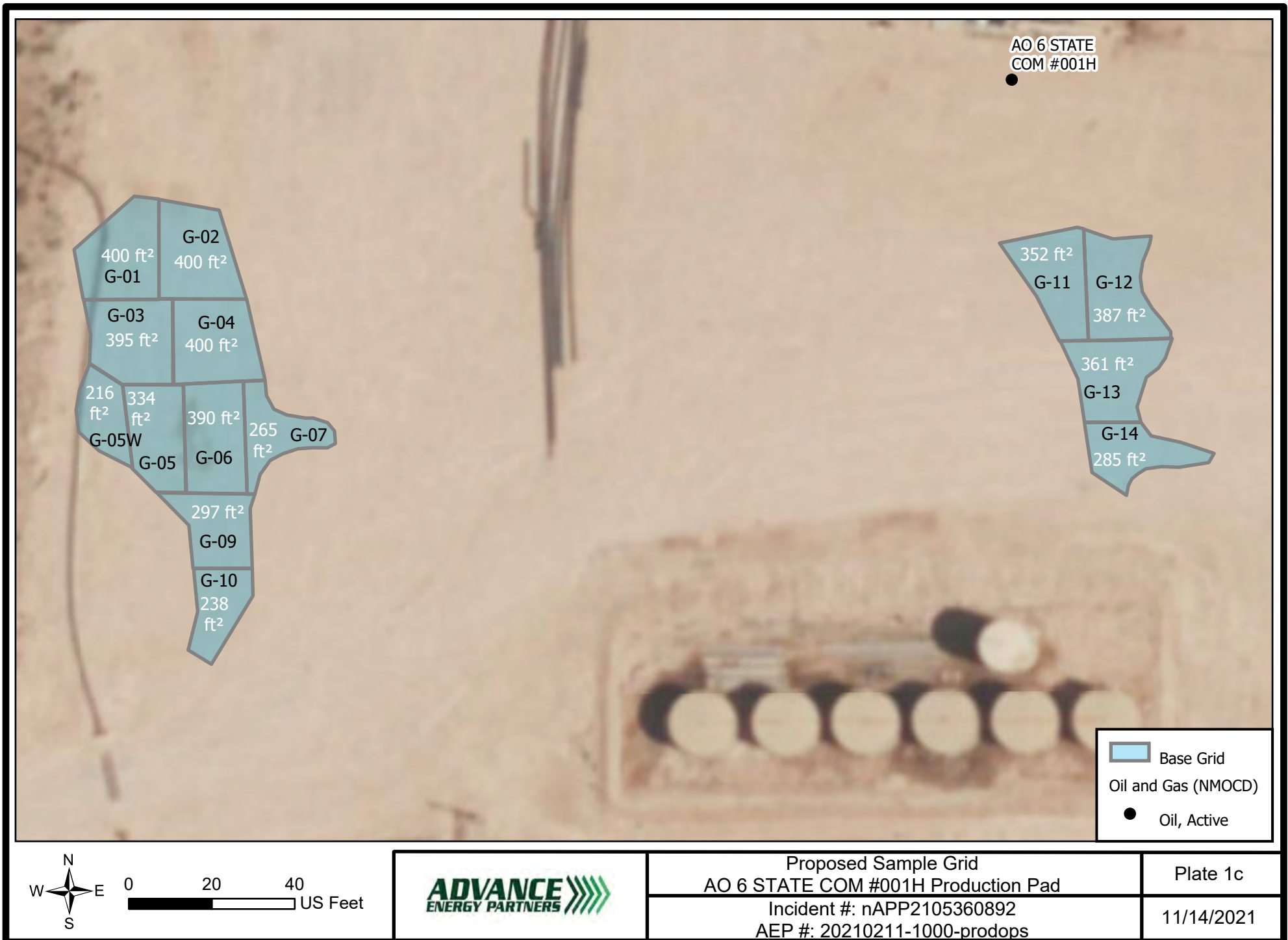
Plates

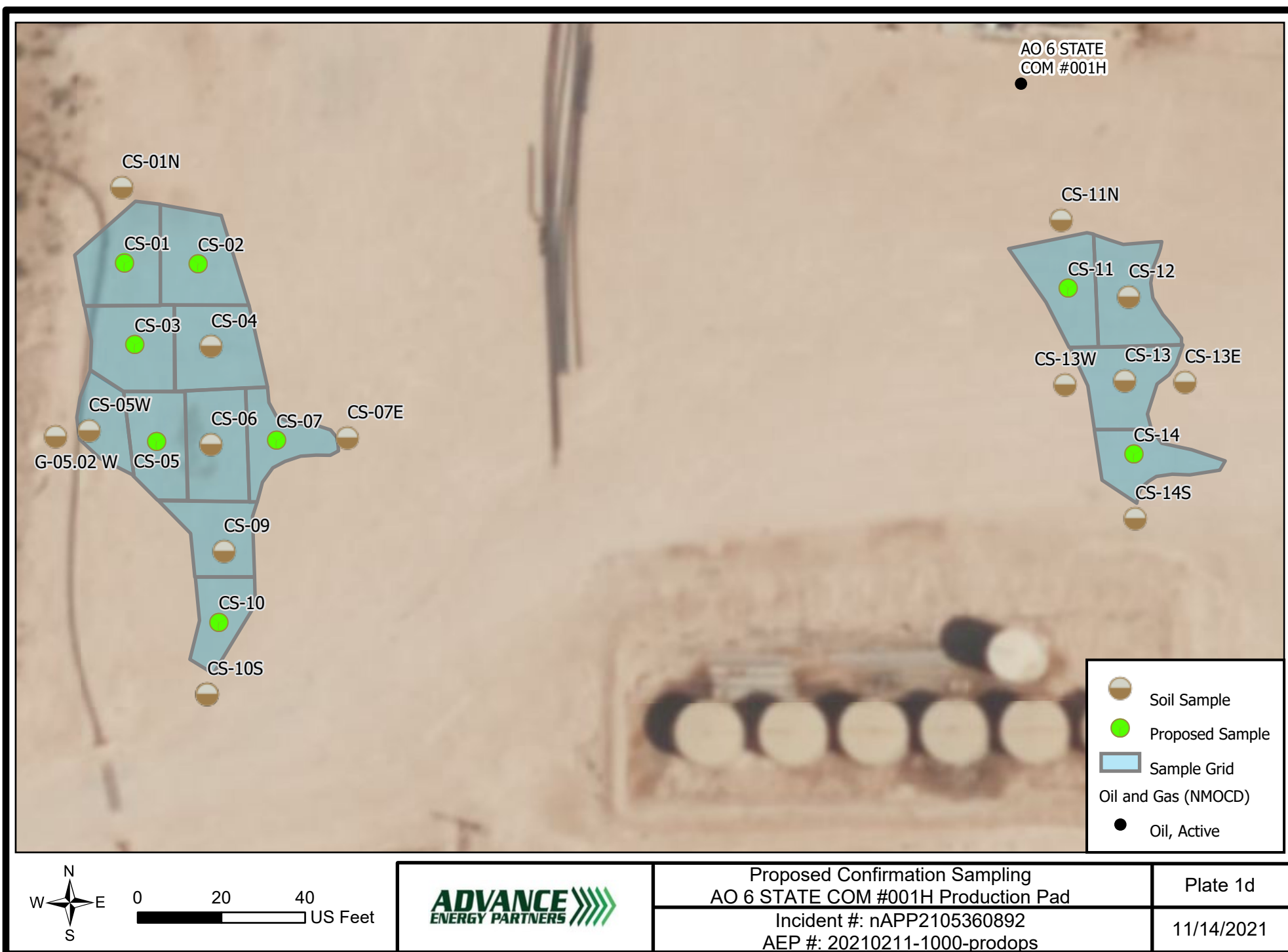


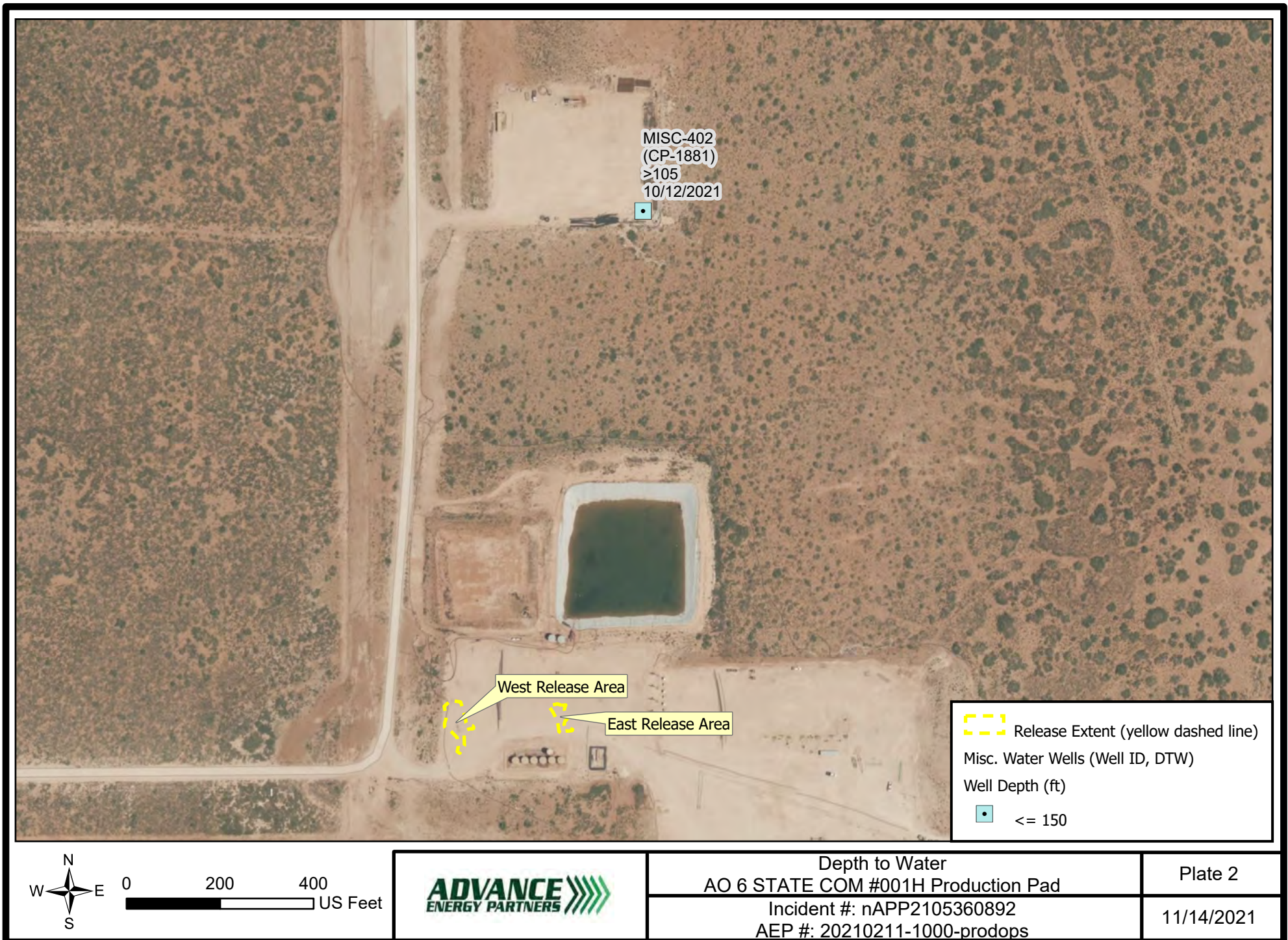
11490 Westheimer Rd. Suite 950 Houston, TX 77077

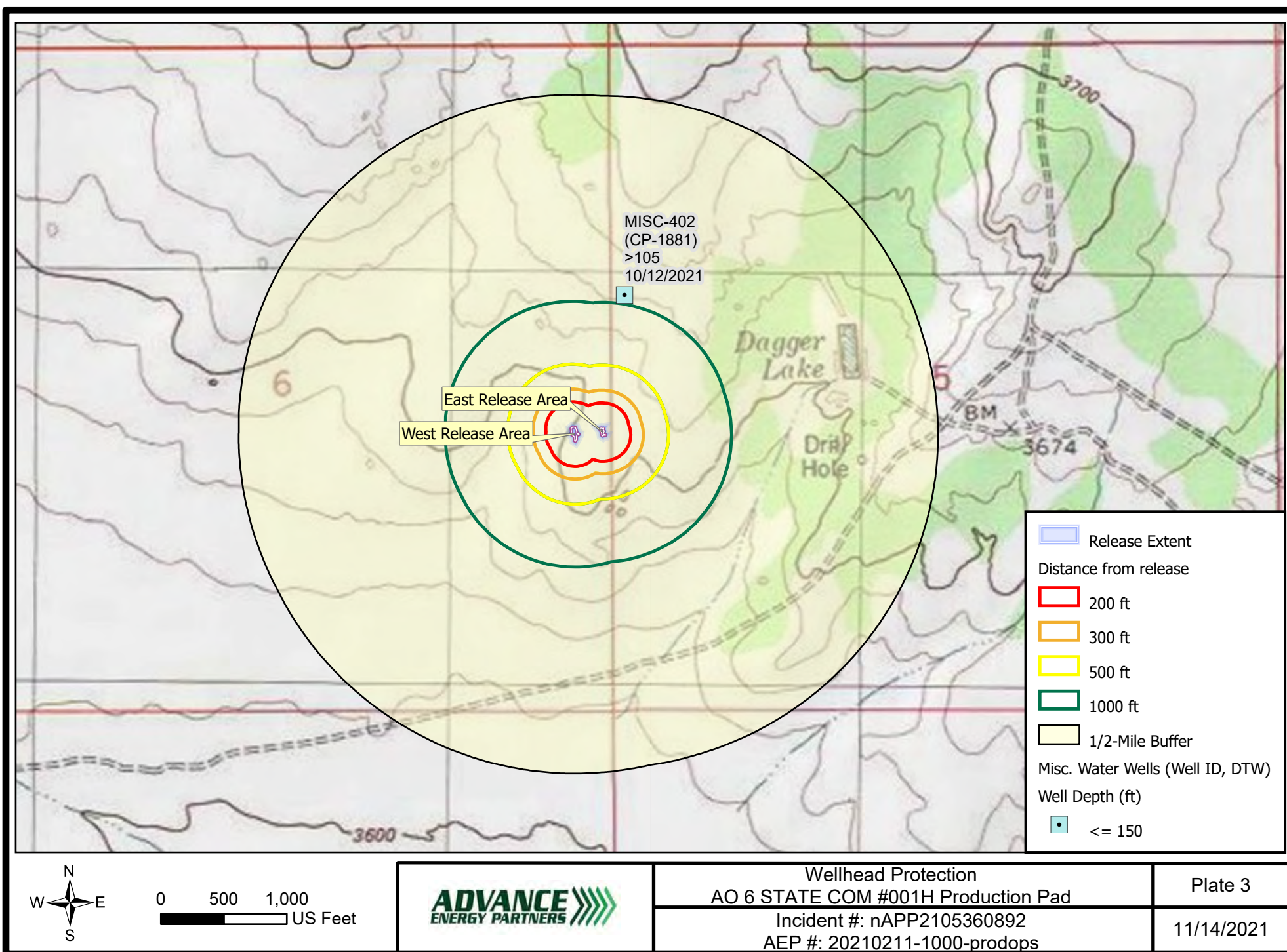


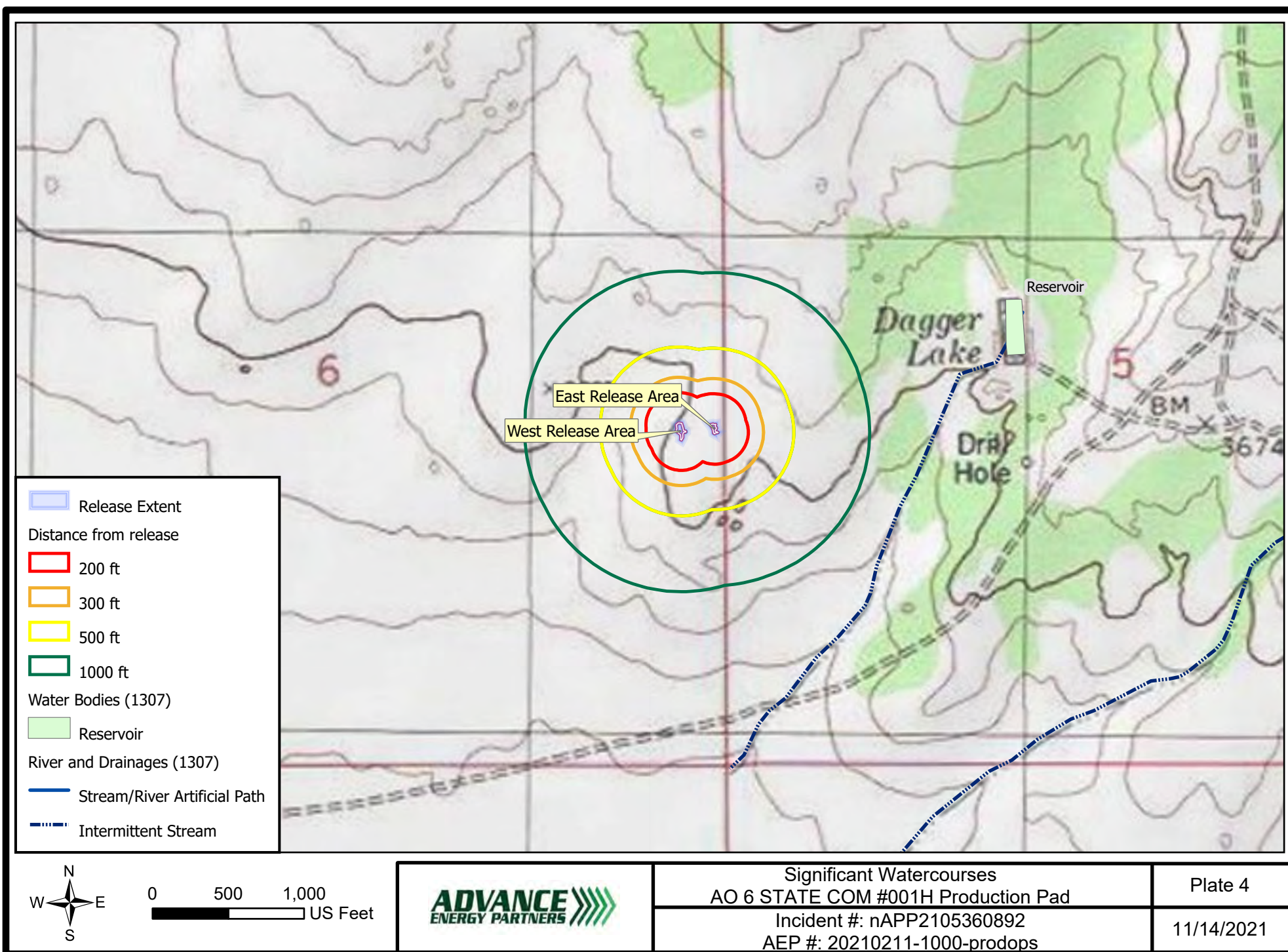


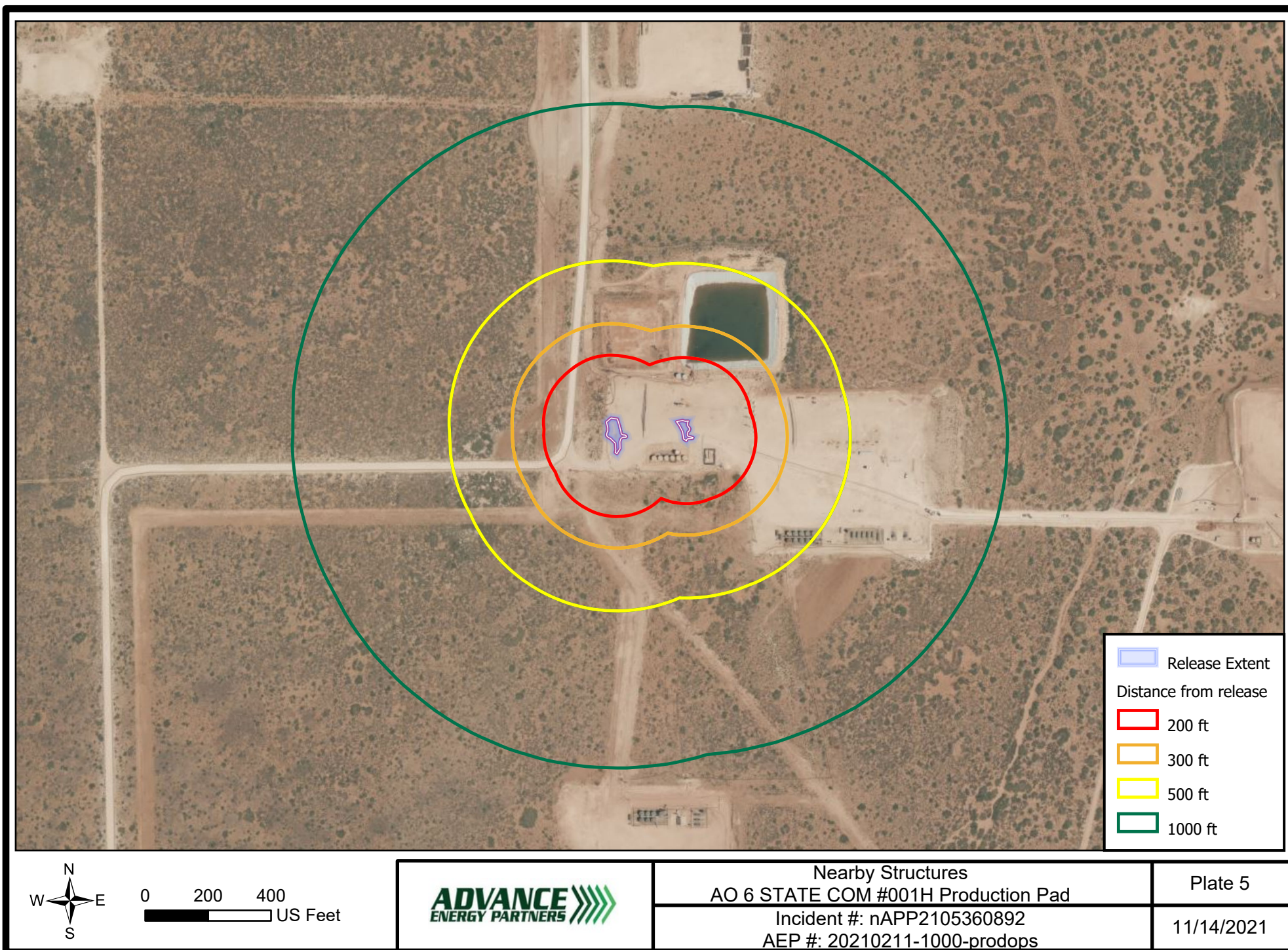


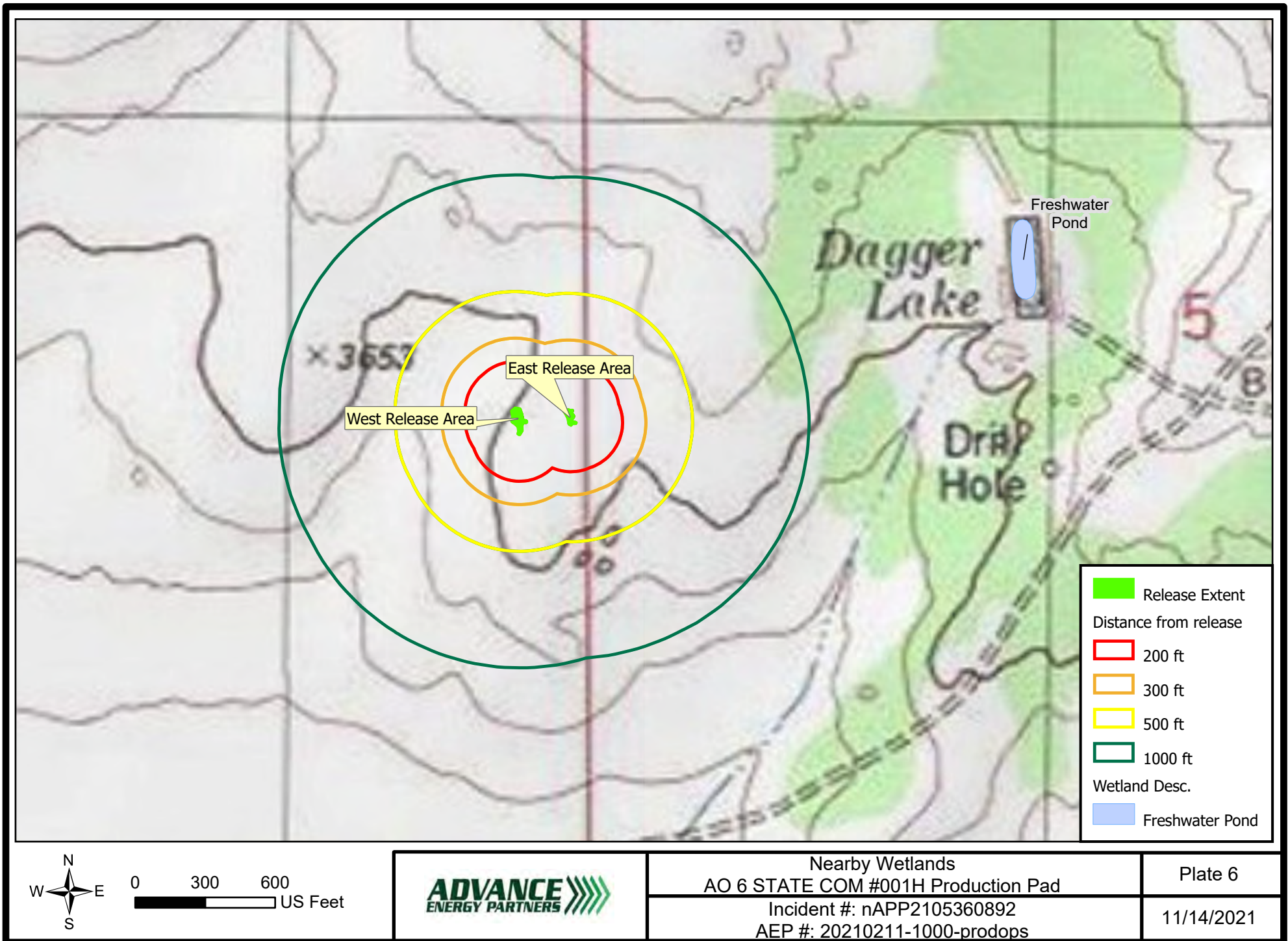


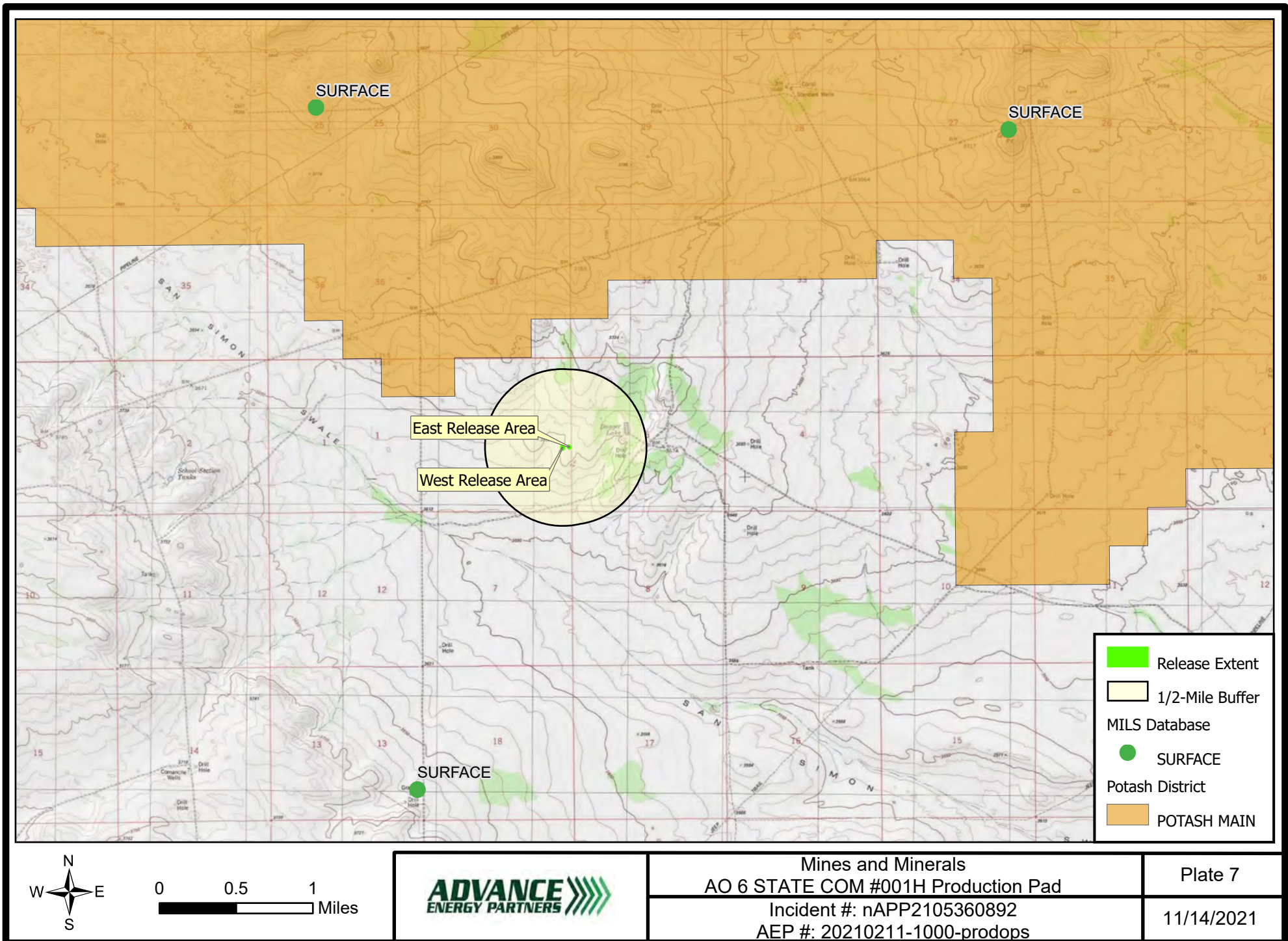


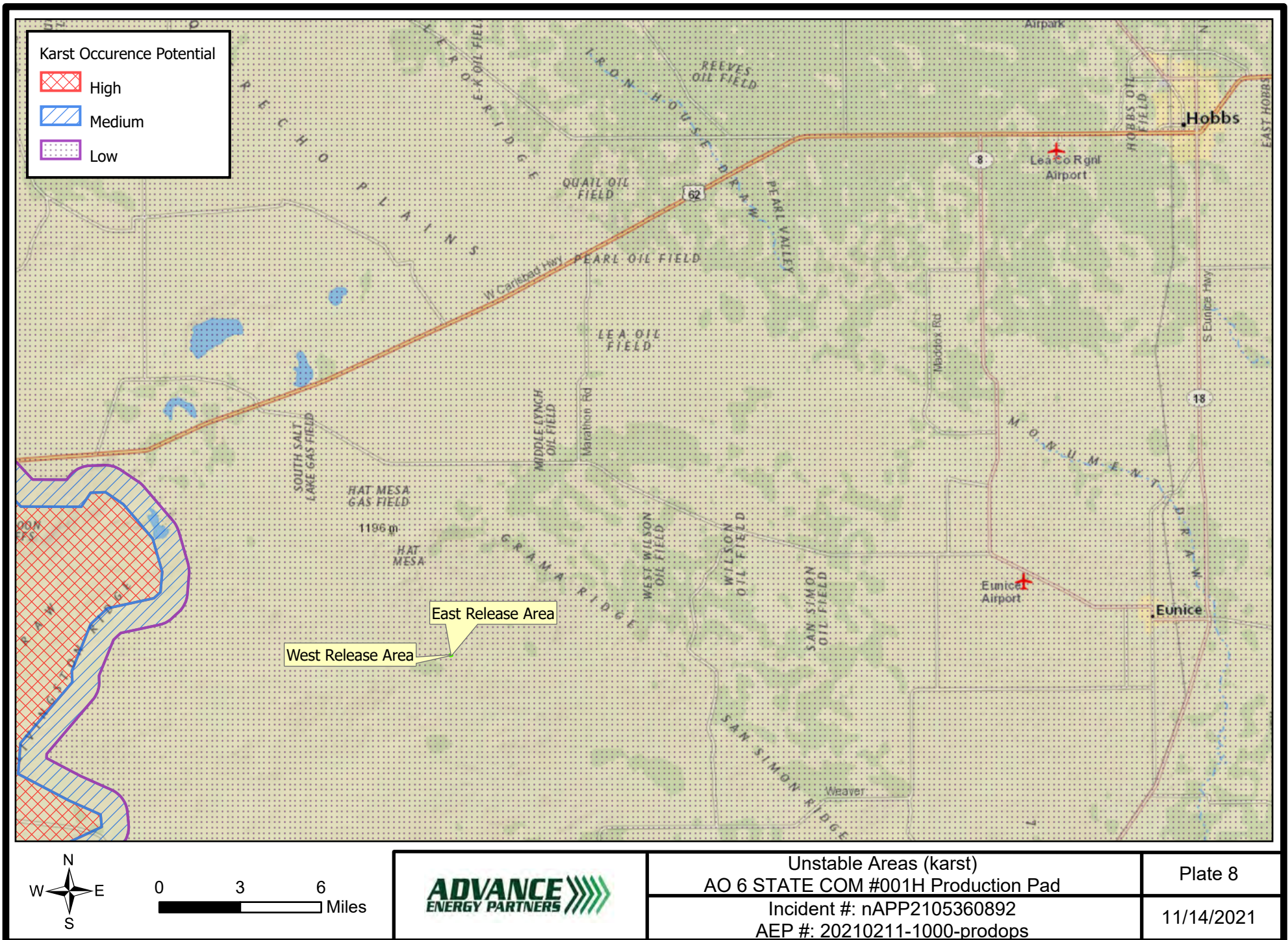


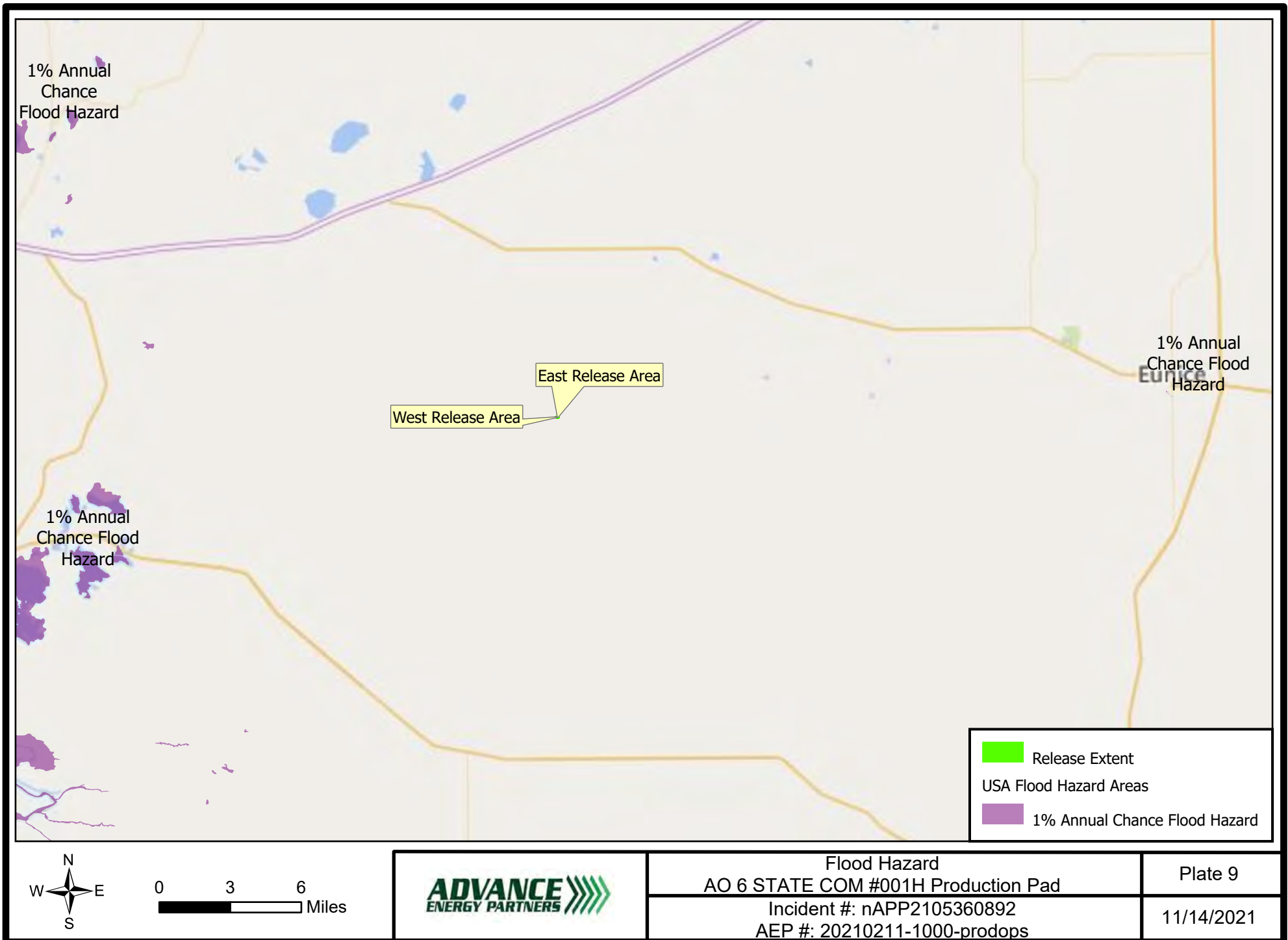












Appendix A

Well/Driller Log



11490 Westheimer Rd. Suite 950 Houston, TX 77077



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-1881 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-1881 Pod1.

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

Sincerely,

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

Lucas Middleton

Enclosures: as noted above

USE DII NOV 1 2021 PM 4:43



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-1881			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suitt 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 25	SECONDS 22	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	36	12	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NE Sec. 06 T22S 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 10/12/2021	DRILLING ENDED 10/12/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	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) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	


FOR OSE INTERNAL USE

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

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

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, fine-grained, poorly graded with Caliche, Brown	Y ✓ N	
	14	19	5	Caliche, consolidated with fin-grained sand, White/Tan	Y ✓ N	
	19	24	5	Sand, fine-grained, poorly graded with Caliche, Reddish Brown	Y ✓ N	
	24	44	20	Sand, fine-grained, poorly graded with clay, Reddish Brown	Y ✓ N	
	44	64	20	Sand, fine-grained, poorly graded with clay, Brown Tan	Y ✓ N	
	64	105	41	Sand, fine-grained, poorly graded with clay, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

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

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

FOR OSE INTERNAL USE

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

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






CP-1881_OSE_Well Record and Log-forsign

Final Audit Report

2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAQ3vIH-svpKXba6sweCTSv6bY9FHI1cHt

"CP-1881_OSE_Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:53:42 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:54:01 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:18:46 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:19:17 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:19:17 PM GMT

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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-1881-POD1

Well owner: Advanced Energy Partners

Phone No.: 832.672.4700

Mailing address: 11490 Westheimer Rd. Suite 950

City: Houston

State: Texas

Zip code: 77077

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Lupe Leyba
- 4) Date well plugging began: 10/14/2021 Date well plugging concluded: 10/14/2021
- 5) GPS Well Location: Latitude: 32 deg, 25 min, 22 sec
Longitude: 103 deg, 36 min, 12 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 07/08/2021
- 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):

OSE DT NOV 1 2021 PM 4:44

- 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'-110'	Drill Cuttings	Approx. 151 gallons	151 gallons	Boring	

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

III. SIGNATURE:

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

Jack Atkins

Signature of Well Driller

10/27/2021

Date






DATE__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:	CBJCHBCAABAAIR6dClvgQcGMZKORwRcBWHfk6EYZjwn4

"DATE__WD-11 Plugging Record-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:51:59 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:54:13 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:18:25 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:18:39 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-10-29 - 4:18:39 PM GMT

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Appendix B

Laboratory Certificate of Analysis



11490 Westheimer Rd. Suite 950 Houston, TX 77077



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

August 11, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06 PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/05/21 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 01 N 0-1' (H212093-01)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	20.3	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.0 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 01 N 1.5' (H212093-02)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	272	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.4 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 04 0-1' (H212093-03)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEx	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.2 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 04 1.5' (H212093-04)

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	08/09/2021	ND	2.14	107	2.00	0.146		
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50		
Total BTEx	<0.300	0.300	08/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.7 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 06 0-1' (H212093-05)

BTX 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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 06 1.5' (H212093-06)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEx	<0.300	0.300	08/09/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.7 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 05 W 0-1.5' (H212093-07)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	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	128	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	2670	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	176	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 145 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/03/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 05 W 2' (H212093-08)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	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	128	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	71.9	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.3 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 09 0-1.5' (H212093-09)

BTX 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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTX	<0.300	0.300	08/09/2021	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	448	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 09 2' (H212093-10)

BTX 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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTX	<0.300	0.300	08/09/2021	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	80.0	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.7 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 07 E 0-1' (H212093-11)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	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	208	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.2 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 07 E 1.5' (H212093-12)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	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	32.0	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.5 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 10 S 0-1' (H212093-13)

BTX 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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTX	<0.300	0.300	08/09/2021	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	384	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	215	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	207	103	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.0 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 10 S 1.5' (H212093-14)

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	08/09/2021	ND	2.14	107	2.00	0.146		
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50		
Total BTEx	<0.300	0.300	08/09/2021	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	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.4 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 11 N 0-1.5' (H212093-15)

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	08/09/2021	ND	2.14	107	2.00	0.146		
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50		
Total BTEX	<0.300	0.300	08/09/2021	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	928	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	198	98.9	200	5.64	
DRO >C10-C28*	31.3	10.0	08/10/2021	ND	214	107	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.9 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 11 N 2' (H212093-16)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEx	<0.300	0.300	08/09/2021	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	112	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 12 0-1' (H212093-17)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEx	<0.300	0.300	08/09/2021	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	1360	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.6 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 13 W 0-1' (H212093-19)

BTX 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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTX	<0.300	0.300	08/09/2021	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	608	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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

Received:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 13 W 1.5' (H212093-20)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEX	<0.300	0.300	08/09/2021	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	448	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 13 0-1' (H212093-21)

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	08/09/2021	ND	2.14	107	2.00	0.146	
Toluene*	<0.050	0.050	08/09/2021	ND	2.18	109	2.00	0.274	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	2.19	110	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	6.58	110	6.00	1.50	
Total BTEx	<0.300	0.300	08/09/2021	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	608	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	35.7	10.0	08/09/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.9 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/04/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 13 1.5' (H212093-22)

BTX 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	08/09/2021	ND	1.77	88.6	2.00	5.25		
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78		
Total BTX	<0.300	0.300	08/09/2021	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	656	16.0	08/10/2021	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/09/2021	ND	193	96.4	200	0.984		
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	209	104	200	0.104		
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND						

Surrogate: 1-Chlorooctane 92.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/05/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 14 S 0-1' (H212093-23)

BTX 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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/05/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 14 S 1.5' (H212093-24)

BTX 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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	832	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/05/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 13 E 0-1' (H212093-25)

BTX 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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.6 % 38.9-142

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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:	08/05/2021	Sampling Date:	08/05/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	Cool & Intact
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 13 E 2' (H212093-26)

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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTEX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	480	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 114 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Advance Energy Partners		BILL TO		ANALYSIS REQUEST											
Project Manager: Andrew Parker		P.O. #: 2010-211-1000-Prods													
Address: On-File		Company: AEP													
City:	State:	Attn:	Send to												
Phone #:	Fax #:	Address: A.parker@advance													
Project #:		City: energypartners.com													
Project Name: 2010-211-1000-Prods		State:		Zip:											
Project Location: AOC Rd		Phone #:													
Sample Name: Jacob Saenz		Fax #:													
<small>FOR LAB USE ONLY</small>															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
H210093	CS-01N	0-1FT	G			X					4/3/01	10:20	X	X	X
	CS-01N	1.5FT										10:45			
	CS-04	0-1FT										11:20			
	CS-04	1.5FT										11:45			
	CS-06	0-1FT										12:15			
	CS-06	1.5FT										12:35			
	CS-05W	0-1.5FT										13:30			
	CS-05W	2FT										14:00			
	CS-09	0-1.5FT										01:30			
	CS-09	2FT										07:50			

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Relinquished By:	Date: 8-5-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: 5A05 SAT N2	Time: 1:520	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Date:	Time:		REMARKS:	
			P91	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) YO



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners

Project Manager: Andrew Parker

Address: On-File

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: 20210211-1000-Pre-395

Project Location: A06 PAP

Sampler Name: Jacob Saenz

BILL TO

P.O. #: 20210211-1000-Pre-395

Company: AEP

Attn: Send to

Address: A.parker@advance

City: energypartners.com

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D. Sample I.D.

HS12093

21 CS-13 0-1FT
22 CS-13 1.5FT
23 CS-145 0-1FT
24 CS-145 1.5FT
25 CS-13E 0-1FT
26 CS-13E 2FT

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE TIME

CHLORIDE

TPH (GRO+DRO+MRO)

BENZENE, BTEX

6/4/01 14:15
6/4/01 14:45
6/5/01 07:35
08:10
08:40
09:30

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Relinquished By:

SAAC SAENZ

Relinquished By:

Date: 8-5-21
Time: 1315

Received By:

James A. Black

Date: 8-5-21
Time: 1315

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.1e #113

Sample Condition
☒ Cool ☒ Intact
☐ Yes ☐ No

CHECKED BY:
(Initials)

Y.E.

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

August 11, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06 PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/06/21 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/06/2021	Sampling Date:	08/06/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	A 06 PAD	Sampling Condition:	** (See Notes)
Project Number:	20210211 - 1000 - PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CS - 12 1.5' (H212100-01)

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	08/10/2021	ND	1.81	90.5	2.00	7.16	
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01	
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19	
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67	
Total BTEX	<0.300	0.300	08/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2021	ND	218	109	200	5.27	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	203	101	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

October 22, 2021

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06

Enclosed are the results of analyses for samples received by the laboratory on 10/20/21 14:50.

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". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/20/2021
 Reported: 10/22/2021
 Project Name: A 06
 Project Number: 20210211 - 1000
 Project Location: NOT GIVEN

Sampling Date: 10/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS - 05.02 W 0-1' (H212953-01)

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	10/21/2021	ND	2.04	102	2.00	4.06	
Toluene*	<0.050	0.050	10/21/2021	ND	2.00	99.9	2.00	4.13	
Ethylbenzene*	<0.050	0.050	10/21/2021	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	10/21/2021	ND	5.96	99.4	6.00	5.28	
Total BTEX	<0.300	0.300	10/21/2021	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	128	16.0	10/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2021	ND	218	109	200	9.78	
DRO >C10-C28*	<10.0	10.0	10/21/2021	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	10/21/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.2 % 38.9-142

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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: 10/20/2021
 Reported: 10/22/2021
 Project Name: A 06
 Project Number: 20210211 - 1000
 Project Location: NOT GIVEN

Sampling Date: 10/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS - 05.02 W 1-2' (H212953-02)

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	10/21/2021	ND	2.01	101	2.00	5.38	
Toluene*	<0.050	0.050	10/21/2021	ND	1.96	98.0	2.00	5.06	
Ethylbenzene*	<0.050	0.050	10/21/2021	ND	1.91	95.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	10/21/2021	ND	5.76	96.0	6.00	6.75	
Total BTEX	<0.300	0.300	10/21/2021	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	224	16.0	10/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2021	ND	218	109	200	9.78	
DRO >C10-C28*	<10.0	10.0	10/21/2021	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	10/21/2021	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.2 % 38.9-142

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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: 10/20/2021
 Reported: 10/22/2021
 Project Name: A 06
 Project Number: 20210211 - 1000
 Project Location: NOT GIVEN

Sampling Date: 10/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS - 05.02 W 2-3' (H212953-03)

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	10/21/2021	ND	2.01	101	2.00	5.38	
Toluene*	<0.050	0.050	10/21/2021	ND	1.96	98.0	2.00	5.06	
Ethylbenzene*	<0.050	0.050	10/21/2021	ND	1.91	95.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	10/21/2021	ND	5.76	96.0	6.00	6.75	
Total BTEX	<0.300	0.300	10/21/2021	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	368	16.0	10/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2021	ND	218	109	200	9.78	
DRO >C10-C28*	<10.0	10.0	10/21/2021	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	10/21/2021	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.6 % 38.9-142

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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: 10/20/2021
 Reported: 10/22/2021
 Project Name: A 06
 Project Number: 20210211 - 1000
 Project Location: NOT GIVEN

Sampling Date: 10/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS - 05.02 W 3-4' (H212953-04)

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	10/21/2021	ND	2.01	101	2.00	5.38	
Toluene*	<0.050	0.050	10/21/2021	ND	1.96	98.0	2.00	5.06	
Ethylbenzene*	<0.050	0.050	10/21/2021	ND	1.91	95.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	10/21/2021	ND	5.76	96.0	6.00	6.75	
Total BTEX	<0.300	0.300	10/21/2021	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	10/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2021	ND	218	109	200	9.78	
DRO >C10-C28*	<10.0	10.0	10/21/2021	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	10/21/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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 62808

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 62808
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	8/1/2022