

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 18539

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 18539
	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	AO6 20210211-1000-prodops
Date Release Discovered	02/11/2021
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: Human Error Frac Tank Produced Water Released: 18 BBL Recovered: 0 BBL Lost: 18 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.
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
<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</i>	

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 18539

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	Action Number: 18539
	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 18539

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Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 18539
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	2/23/2021

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

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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	nAPP2105360892
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.4195396 _____ Longitude -103.6040569 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: AO6 State Com #1 AEP# 20210211-1000-prodops	Site Type: Production Pad
Date Release Discovered: 02/11/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
I	6	22 S	33 E	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) 18 bbks	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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: Spill occurred during transport of frac tanks during workover operations for Dagger Lake 5 State 801H.

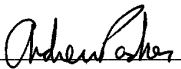
State of New Mexico
Oil Conservation Division

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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>02/22/2021</u>
email: <u>aparker@advanceenergypartners.com</u>	Telephone: <u>970-570-9535</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>01/31/2023</u>

Incident ID	nAPP2105360892
District RP	
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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? 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.*

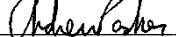
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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

Incident ID	nAPP2105360892
District RP	
Facility ID	
Application ID	

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: November 16, 2021email: aparker@advanceenergypartners.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn HarimonDate: 01/31/2023

Incident ID	nAPP2105360892
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Facility ID	
Application ID	

Remediation Plan

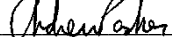
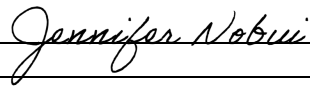
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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: Jocelyn Harimon Date: 01/31/2023☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 08/01/2022

Incident ID	nAPP2105360892
District RP	
Facility ID	
Application ID	

Closure

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

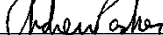
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

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

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: January 31, 2023

email: aparker@advanceenergypartners.com


Telephone: 970-570-9535

OCD Only

Received by: Jocelyn Harimon

Date: 01/31/2023

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

Closure Approved by:  Date: 02/20/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



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

January 31, 2023

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

RE: Closure Report
Incident #: nAPP2105360892
AEP #: 20210211-1000-prodops
Location: AO6 State Com #1

NMOCD:

Advance Energy Partners Hat Mesa LLC (Advance Energy) submits this closure report for incident nAPP2105360892 and respectfully asks for closure of the regulatory file.

The remediation plan was approved by NMOCD, including approval for sample grid size not to exceed 400 square feet, on August 1, 2022. Extension request was approved September 6, 2022. Communications are included in Appendix A.

As described in the Characterization Report and Remediation Plan:

- 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 met 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 depth to water is > 100 ft below ground surface.
 - 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

Incident #: nAPP2105360892
AEP #: 20210211-1000-prodops

1. Remediation and Restoration Activities

On January 17, 2023, sample grids G-03 and G-05 adjacent to the impacted grid were sampled to confirm excavation extent needs. As these samples met most stringent closure criteria for all constituents of concern, the excavation extent was limited to grid G-05W as presented in the approved remediation plan. Prior characterization sample data was augmented with sampling at proposed sample points from approved remediation plan.

As indicated in the October 13, 2021 email communication to NMOCD, characterization samples that met closure criteria would be used as confirmation samples in the closure report (included in Appendix A).

Additional horizontal/lateral delineation samples were obtained to confirm that release extent did not migrate off site.

- Sample grids, associated square footage, and remediation extent are shown on Plate 1a.
- Sample point locations are shown on Plate 1b.
- Table A shows the coordinates of the characterization/confirmation and delineation sample points.

Approximately 13 cubic yards (216 square ft x 1.5 ft depth) of material was transported off site to an approved disposal facility.



Figure 1: View of excavation facing southwest from the northeast corner of remediation extent.

Date Taken: 2023-01-20 09:52:20

GPS: 32.4195184, -103.6041535

Following analysis of sample data, the excavated area was backfilled with clean material and restored to an active production site for oil and gas operations.

01/31/2023

Incident #: nAPP2105360892
AEP #: 20210211-1000-prodops



Figure 2: View of the restored excavation extent facing southwest.
Date Taken: 2023-01-30 13:03:53
GPS: 32.4196411, -103.6040696

2. Closure Request

Analytical sample data shows that all confirmation sample points meet closure criteria per Table 1 of 19.15.29.12 NMAC for the release area on an active production site that is in use for oil and gas operations, where depth to water is > 100 ft:

- 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

Lateral/horizontal delineation sample points met most stringent closure criteria per Table 1 of 19.15.29.12 NMAC:

- Chloride < 600 mg/kg
- TPH (GRO + DRO + MRO) < 100 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

Table B contains a summary of analytical.

Incident #: nAPP2105360892
AEP #: 20210211-1000-prodops

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.A-D. NMAC

Please contact me with any questions.

Sincerely,
Advance Energy Partners



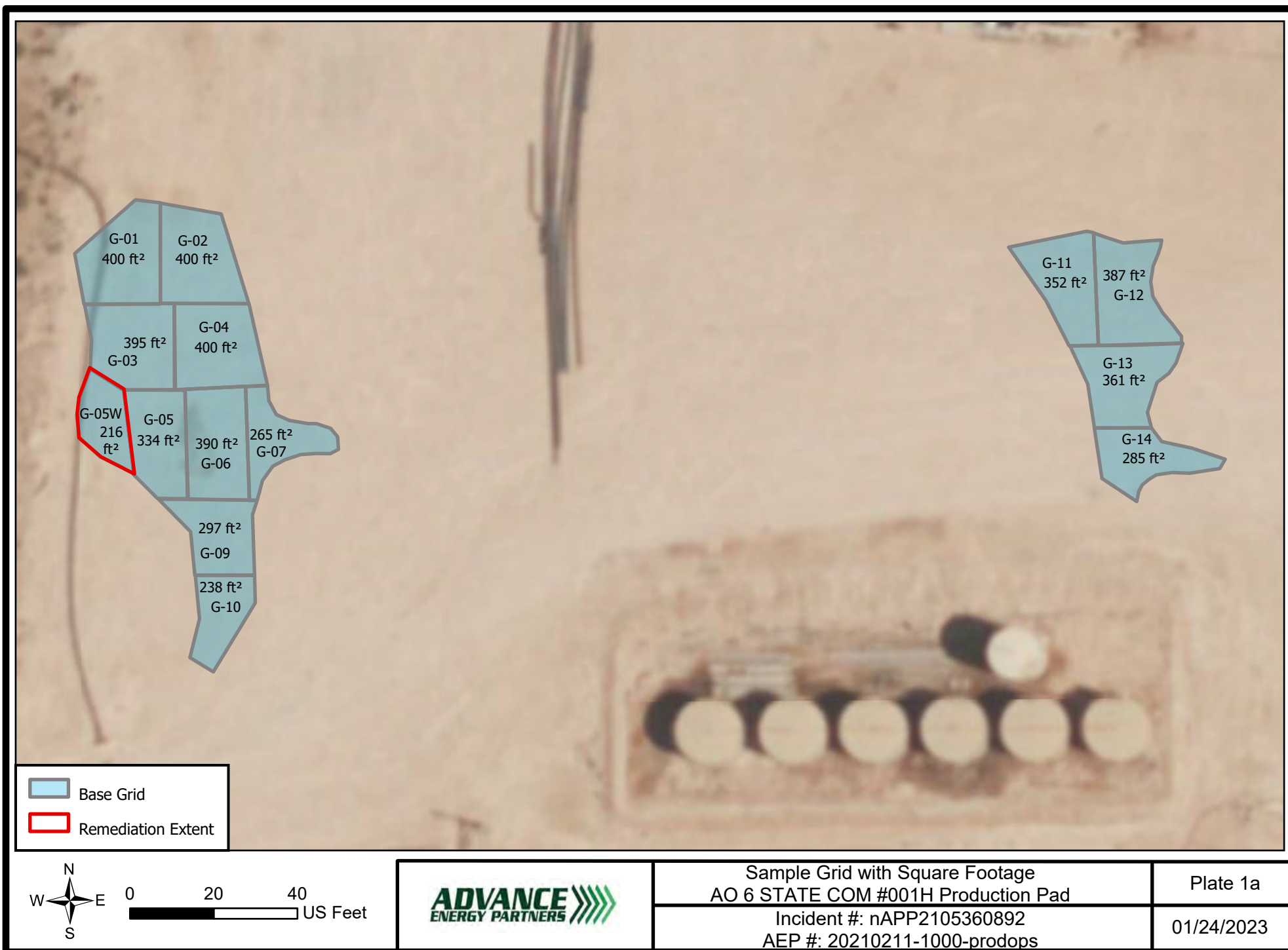
Andrew Parker
Env. Scientist

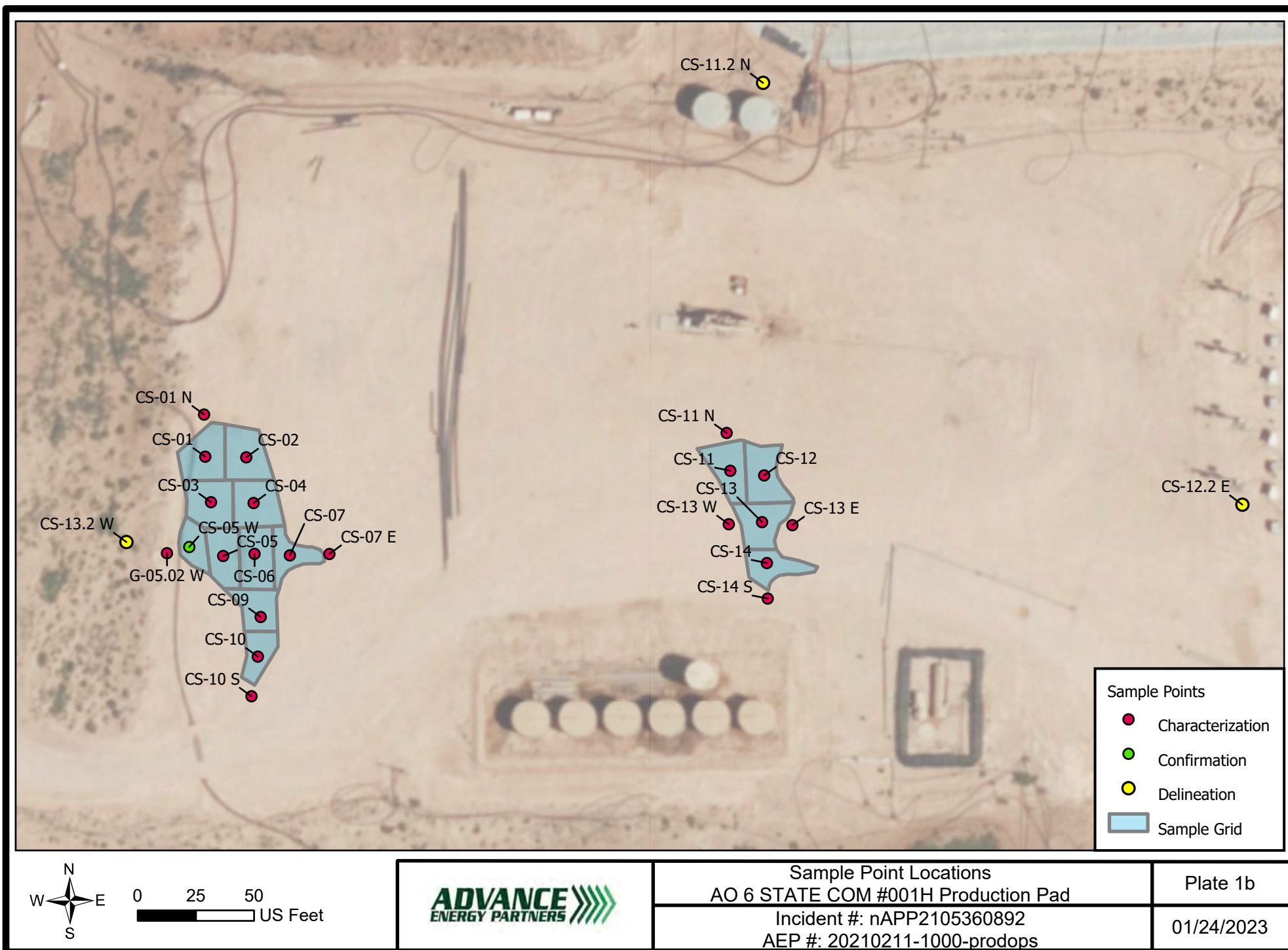
Copy: State Land Office

01/31/2023

Plates







Tables



Sample Point	Latitude	Longitude
CS-01	32.41967628	-103.6041283
CS-01 N	32.41972605	-103.6041295
CS-02	32.41967519	-103.6040712
CS-03	32.41962251	-103.6041207
CS-04	32.41962117	-103.6040614
CS-05	32.41955884	-103.6041042
CS-05 W	32.41956974	-103.6041514
G-05.02 W	32.41955810	103.6041740
CS-06	32.41956109	-103.6040606
CS-07	32.41955906	-103.6040114
CS-07 E	32.41956038	-103.6039564
CS-09	32.41948655	-103.6040526
CS-10	32.41943975	-103.6040570
CS-10 S	32.41939301	-103.6040662
CS-11	32.41965540	-103.6033977
CS-11 N	32.41970011	-103.6034025
CS-11.2 N	32.42011326	-103.6033484
CS-12	32.41964966	-103.6033506
CS-12.2 E	32.41961125	-103.6026854
CS-13	32.41959451	-103.6033540
CS-13.2 W	32.41957090	-103.6042299
CS-13 E	32.41959068	-103.6033118
CS-13 W	32.41959227	-103.6034004
CS-14	32.41954614	-103.6033477
CS-14 S	32.41950419	-103.6033469

January 30, 2023

Table B
Summary of AnalyticalIncident #: nAPP2105360892
AEP #: 20210211-1000-prodops
AO 6 State Com #1 Production Pad

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments	Lab (Hall/Cardinal)	Lab #
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	1/19/2023		0	1	On Site	176	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-01	1/19/2023	1.5			On Site	96	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-01 N	8/3/2021		0	1	On Site	96	<30.3	<40.3	<0.05	<0.3		Cardinal	H212093
CS-01 N	8/3/2021	1.5			On Site	272	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-02	1/19/2023		0	1	On Site	224	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-02	1/19/2023	1.5			On Site	240	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-03	1/17/2023		0	1	On Site	16	<20	<30	<0.05	<0.3		Cardinal	H230231
CS-04	8/3/2021		0	1	On Site	64	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-04	8/3/2021	1.5			On Site	64	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-05	1/17/2023		0	1	On Site	112	<20	<30	<0.05	<0.3		Cardinal	H230231
CS-05 W	8/3/2021		0	1.5	On Site	128	<2680	<2856	<0.05	<0.3	Removed	Cardinal	H212093
CS-05 W	1/19/2023	1.5			On Site	464	<20	<30	<0.05	<0.3	Remediated Base Sample	Cardinal	H230291
CS-05 W	8/3/2021	2			On Site	128	<81.9	<91.9	<0.05	<0.3		Cardinal	H212093
CS-05.02 W	10/20/2021		0	1	On Site	128	<20	<30	<0.05	<0.3		Cardinal	H212953
CS-05.02 W	10/20/2021		1	2	On Site	224	<20	<30	<0.05	<0.3		Cardinal	H212953
CS-05.02 W	10/20/2021		2	3	On Site	368	<20	<30	<0.05	<0.3		Cardinal	H212953
CS-05.02 W	10/20/2021		3	4	On Site	32	<20	<30	<0.05	<0.3		Cardinal	H212953
CS-06	8/3/2021		0	1	On Site	48	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-06	8/3/2021	1.5			On Site	16	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-07	1/19/2023		0	1	On Site	48	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-07	1/19/2023	1.5			On Site	80	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-07 E	8/4/2021		0	1	On Site	208	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-07 E	8/4/2021	1.5			On Site	32	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-08											Omit-No Grid or Sample #		
CS-09	8/4/2021		0	1.5	On Site	448	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-09	8/4/2021	2			On Site	80	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-10	1/19/2023		0	1	On Site	752	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-10	1/19/2023	1.5			On Site	80	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-10 S	8/4/2021		0	1	On Site	384	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-10 S	8/4/2021	1.5			On Site	48	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-11	1/19/2023		0	1	On Site	816	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-11	1/19/2023	1.5			On Site	944	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-11 N	8/4/2021		0	1.5	On Site	928	<41.3	<51.3	<0.05	<0.3		Cardinal	H212093
CS-11 N	8/4/2021	2			On Site	112	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-11.2 N	1/19/2023	0			On Site	80	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-12	8/4/2021		0	1	On Site	1360	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-12	8/6/2021	1.5			On Site	688	<20	<30	<0.05	<0.3		Cardinal	H212100
CS-12.2 E	1/19/2023	0			OnSite	80	<20	<30	<0.05	<0.3		Cardinal	H230291

January 30, 2023

Table B
Summary of AnalyticalIncident #: nAPP2105360892
AEP #: 20210211-1000-prodops
AO 6 State Com #1 Production Pad

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (PPM)	GRO+DRO (PPM)	TPH Ext. (PPM)	Benzene (PPM)	BTEX (PPM)	Comments	Lab	Lab #
												(Hall/Cardinal)	
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-13	8/4/2021		0	1	On Site	608	<45.7	<55.7	<0.05	<0.3		Cardinal	H212093
CS-13	8/4/2021	1.5			On Site	656	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-13 E	8/5/2021		0	1	On Site	768	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-13 E	8/5/2021	2			On Site	480	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-13 W	8/4/2021		0	1	On Site	608	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-13 W	8/4/2021	1.5			On Site	448	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-13.2 W	1/19/2023	0			Off Site	48	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-14	1/19/2023		0	1	On Site	336	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-14	1/19/2023	1.5			On Site	352	<20	<30	<0.05	<0.3		Cardinal	H230291
CS-14 S	8/5/2021		0	1	On Site	192	<20	<30	<0.05	<0.3		Cardinal	H212093
CS-14 S	8/5/2021	1.5			On Site	832	<20	<30	<0.05	<0.3		Cardinal	H212093
Backfill	1/23/2023					64	<20	<30	<0.05	<0.3	Backfill	Cardinal	H230329

Appendix A

Communications



Andrew Parker

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, January 17, 2023 9:19 AM
To: Andrew Parker
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] nAPP2105360892 48hr sampling notice AO6 Remediation

External (ocd.enviro@emnrd.nm.gov)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Andrew,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Andrew Parker <aparker@ameredev.com>
Sent: Monday, January 16, 2023 6:19 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] nAPP2105360892 48hr sampling notice AO6 Remediation

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

NMOCD,

Please accept this email as the 48 hour confirmation sampling notice per 19.15.29 NMAC. Sampling is expected to begin on Wednesday January 18th. The production pad was used as a staging area for pipelines for construction project. The location has been cleared.

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535

Andrew Parker

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Tuesday, September 6, 2022 10:19 AM
To: Andrew Parker
Cc: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject: FW: [EXTERNAL] nAPP2105360892 AO6 Remediation Extension Request

External (jennifer.nobui@state.nm.us)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Andrew

OCD approves your request for a 60-day extension to November 4, 2022 to submit a closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Tuesday, September 6, 2022 9:08 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] nAPP2105360892 AO6 Remediation Extension Request

From: Andrew Parker <aparker@ameredev.com>
Sent: Tuesday, September 6, 2022 7:33 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Laura Parker <lparker@ameredev.com>; Jesus Palomares <jpalomares@ameredev.com>; Dayeed Khan <dkhan@ameredev.com>
Subject: [EXTERNAL] nAPP2105360892 AO6 Remediation Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

NMOCD,

On the behalf of Advance Energy Partners, Ameredev respectfully asks NMOCD for a 60-day extension for the remediation and closure report for incident # nAPP2105360892 at the AO6 State Com #1 production site. The remediation area is currently used as a staging area for pipelines for planned infrastructure throughout the Advance Energy lease.



Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, August 1, 2022 11:18 AM
To: Andrew Parker <AParker@advanceenergypartners.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 62808

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 approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2105360892, with the following conditions:

- **Remediation Plan Approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@state.nm.us

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

Andrew Parker

From: OCDOnline@state.nm.us
Sent: 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

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

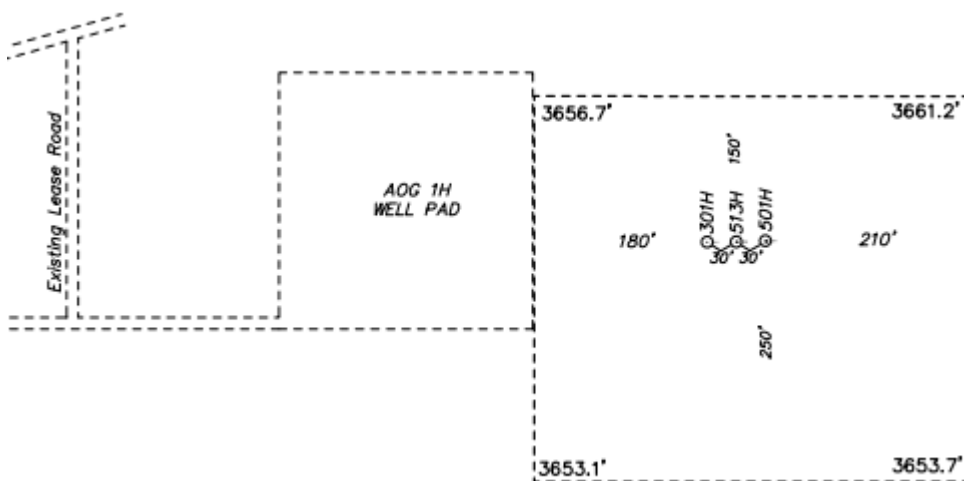


From: Andrew Parker
Sent: Wednesday, April 28, 2021 2:21 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Boone Bajgier <BBajgier@advanceenergypartners.com>; Randy Black <RBlack@advanceenergypartners.com>
Subject: Characterization extension request Incident # nAPP2105360892

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



Appendix B

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-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 PM4:43



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. Stuit 950				CITY Houston			
					STATE TX			
					ZIP 77077			
WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 25		SECONDS 22		N	
	LONGITUDE 103		36		12			W
* ACCURACY REQUIRED: ONE TENTH OF A SECOND								
* 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	
	COMPLETED WELL IS:		<input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	DRILLING FLUID:		<input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	
	DRILLING METHOD:		<input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						


FOR OSE INTERNAL USE

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

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

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, fine-grained, poorly graded 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	
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

OSE DIT NOU 1 2021 PM 4:44



Adobe Sign



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: 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

OSE DTI NOV 1 2021 PM4:44



Adobe Sign

Appendix C

Certificate of Analysis





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".

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:	08/03/2021
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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*=Accredited Analyte

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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)

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	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)

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	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)

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	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)

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	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)

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) 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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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 - 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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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 - 05 W 2' (H212093-08)

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) 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	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)

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	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, SM4500CI-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)

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	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, SM4500CI-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)

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	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)

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, 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)

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	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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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:	08/04/2021
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, SM4500CI-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, 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*	<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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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 1.5' (H212093-20)

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	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)

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) 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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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, SM4500CI-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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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)

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) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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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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, SM4500CI-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

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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners		P.O. # 2010211-1000-Prodops		ANALYSIS REQUEST	
Project Manager: Andrew Parker		Company: AEP			
Address: On-File		Attn: Send to			
City:		Address: A.parker@advance			
Phone #:		City: energypartners.com			
Fax #:		State: Zip:			
Project #:		Phone #:			
Project Name: 2010211-1000-Prodops		Fax #:			
Project Location: A06 Prod					
Sample Name: Jacob Saenz					
FOR LAB USE ONLY					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
210093	CS-01N	0-1FT	1										4/3/01	10:20	2	2	
	CS-01N	1.5FT	1											10:45	2	2	
	CS-04	0-1FT	1											11:20	2	2	
	CS-04	1.5FT	1											11:45	2	2	
	CS-06	0-1FT	1											12:15	2	2	
	CS-06	1.5FT	1											12:35	2	2	
	CS-05W	0-1.5FT	1											13:30	2	2	
	CS-05W	2FT	1											14:00	2	2	
	CS-09	0-1.5FT	1											01:30	2	2	
	CS-09	2FT	1											07:50	2	2	

PLEASE NOTE: Liability and Damages. Contractor's liability and its clients' liability for any claim arising from this contract or work 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 interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 59105 SAT-12	Date: 8-5-21	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: [Blank]
Relinquished By: [Blank]	Date: 1520	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: [Blank]
Time: [Blank]			REMARKS: [Blank]	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4.1c #113

991



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker	P.O. #: 2010211-1000-Prdhp5				
Address: On-File	Company: AEP				
City:	Attn: Send to				
Phone #:	Address: A.parker@advanceenergy.com				
Project #:	City: energypartners.com				
Project Name: 2010211-1000-Prdhp5	State: Zip:				
Project Location: Aok Prd	Phone #:				
Sampler Name: Jacob Sienz	Fax #:				

FOR LAB USE ONLY		LABORATORY ANALYSIS		FIELD DATA		ANALYSIS RESULTS	
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME	RESULTS
H212093	C5-07E	(G)RAB OR (C)OMP.			8/4/01	08:10	CHLORIDE
11	C5-07E	# CONTAINERS				09:15	TPH (GRO+DRO+MRO)
12	C5-07E	GROUNDWATER				09:55	BENZENE, BTEX
13	C5-10S	WASTEWATER				10:40	
14	C5-10S	SOIL				11:30	
15	C5-11N	OIL				11:49	
16	C5-11N	SLUDGE				12:10	
17	C5-12A	OTHER :				12:35	
18	C5-12A	ACID/BASE:				13:00	
19	C5-13W	ICE / COOL				13:40	
20	C5-13W	OTHER :					

PLEASE NOTE: Liability and Damages Card must be signed and returned to the amount paid by the client for the analysis. All claims including those for negligence and any other causes 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: J. D. Lohr	Date: 8-5-21	Received By: [Signature]	Phone Result: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time:	Sample Condition: Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>	CHECKED BY: (Initials) [Signature]	REMARKS: Removed per A. Parker NO Sample



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:

Phone #:

Project #:

Project Name: 20210211-1000-072395

Project Location: A06 PAP

Sample Name: Jacob Saenz

BILL TO

P.O. #: 20210211-1000-072395

Company: AEP

Attn: Send to

Address: A.parker@advance

City: energypartners.com

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HT21003

21	CS-13	0-1FT	6	6/4/01	14:15	✓	✓	✓
22	CS-13	1.5FT	6	6/4/01	14:45	✓	✓	✓
23	CS-145	0-1FT	6	6/5/21	07:35	✓	✓	✓
24	CS-145	1.5FT	6	6/5/21	08:10	✓	✓	✓
25	CS-13E	0-1FT	6	6/4/01	09:40	✓	✓	✓
26	CS-13E	2FT	6	6/4/01	09:30	✓	✓	✓

CHLORIDE

TPH (GRO+DRO+MRO)

BENZENE, BTEX

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Relinquished By:

SAENZ SAENZ

Date: 8-5-21

Time: 1315

Received By:

Andrew Parker

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

93

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.1e #113

Sample Condition
☒ Intact
☐ Cool
☐ Yes
☐ No

CHECKED BY:
(Initials)
Y.E.



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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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 - prodys
Project Location: AOC Pad
Sample Name: Jacob Sacnz

BILL TO

ANALYSIS REQUEST

P.O. #: 20210211-1000-915493
Company: AEP
Attn: Send to
Address: A.parker@advance
City: energypartners.com
State: Zip:
Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H212100

CS-12

1.5 FT

(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

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Relinquished By: SAENZ

Date: 8-6-21

Received By:

Relinquished By:

Date: 7-30-21

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

24.0c

#113

Sample Condition
Cool ☐ Intact ☐
Yes ☐ No ☐

CHECKED BY: (Initials)

40

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

REMARKS:

Brought samples to lab for analysis



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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/20/2021	Sampling Date:	10/20/2021
Reported:	10/22/2021	Sampling Type:	Soil
Project Name:	A 06	Sampling Condition:	** (See Notes)
Project Number:	20210211 - 1000	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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)

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	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 BTX	<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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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



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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

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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

Company Name: Advance Energy Partners Project Manager: Andrew Parker Address: On-File City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: 20210211-1000 Project Owner: _____ Project Name: ↓ City: energypartners.com Project Location: A06 State: _____ Zip: _____ Sampler Name: Jacob Saenz Phone #: _____ FOR LAB USE ONLY				BILL TO P.O. #: 20210211 - 1000 Company: AEP Attn: Send to Address: A.parker@advance City: energypartners.com State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST			
Lab I.D.				Sample I.D.				CLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				Preserv DATE TIME				TPH (GRO+DRO+MRO)			
Sampling DATE TIME				BENZENE, BTEX							
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				DATE TIME							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10:30 10:45 10:55 11:05							
CS-05.02 W 0-1 FT CS-05.02 W 1-2 FT CS-05.02 W 2-3 FT CS-05.02 W 3-4 FT				10:20 10							



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

January 18, 2023

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06 STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/17/23 14:03.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 03 0-1 FT (H230231-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2023	ND	2.06	103	2.00	1.34		
Toluene*	<0.050	0.050	01/17/2023	ND	2.23	111	2.00	2.06		
Ethylbenzene*	<0.050	0.050	01/17/2023	ND	2.16	108	2.00	1.91		
Total Xylenes*	<0.150	0.150	01/17/2023	ND	6.64	111	6.00	2.11		
Total BTEX	<0.300	0.300	01/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 05 0-1 FT (H230231-02)

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	01/17/2023	ND	2.06	103	2.00	1.34		
Toluene*	<0.050	0.050	01/17/2023	ND	2.23	111	2.00	2.06		
Ethylbenzene*	<0.050	0.050	01/17/2023	ND	2.16	108	2.00	1.91		
Total Xylenes*	<0.150	0.150	01/17/2023	ND	6.64	111	6.00	2.11		
Total BTEx	<0.300	0.300	01/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Caley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Avalanche Energy Partners</u> Project Manager: <u>Andrew Parker</u> Address: <u>On-File</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>20210211-1000-Prodops</u> Project Location: <u>A06 State Com #1</u> Sampler Name: <u>Jesus Palomares</u>				BILL TO P.O. #: <u>20210211-1000-Prodops</u> Company: <u>Avalanche Energy Partners</u> Attn: <u>aparker@amcenergy.com</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST			
FOR LAB USE ONLY		LAB I.D.		SAMPLE I.D.		FOR LAB USE ONLY		LAB I.D.		SAMPLE I.D.	
Relinquished By: _____ Date: <u>1-17-23</u>		Received By: _____ Date: <u>1-17-23</u>		Relinquished By: _____ Date: <u>1-17-23</u>		Received By: _____ Date: <u>1-17-23</u>		Relinquished By: _____ Date: <u>1-17-23</u>		Received By: _____ Date: <u>1-17-23</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>28</u> Corrected Temp. °C <u>22</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: _____ (Initials) <u>Y</u>		Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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 services. 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.		REMARKS: <u>Cooler Temp 1.72</u>		Verbal Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____		All Results are emailed. Please provide Email address: _____		Thermometer ID #113 <u>24hr.</u> Correction Factor -0.6°C		Corrected Temp. °C	



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

January 24, 2023

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: A 06 STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 01 0-1 FT (H230291-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTEX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 01 1.5 FT (H230291-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 02 0-1 FT (H230291-03)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEx	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

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	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

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Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 02 1.5 FT (H230291-04)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEx	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

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	01/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Analytical Results For:

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 Fax To: (832) 672-4609

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 05W 1.5 FT (H230291-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 07 0-1 FT (H230291-06)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEx	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

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	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 07 1.5 FT (H230291-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

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	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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 HOUSTON TX, 77077
 Fax To: (832) 672-4609

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 10 0-1 FT (H230291-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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 Fax To: (832) 672-4609

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 10 1.5 FT (H230291-09)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEx	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

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	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 11 0-1 FT (H230291-10)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEx	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 11 1.5 FT (H230291-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 11.2N 0-1 FT (H230291-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

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	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 12.2E 0-1 FT (H230291-13)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEx	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

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	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 13.2W 0-1 FT (H230291-14)

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	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

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	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 14 0-1 FT (H230291-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	A 06 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	20210211-1000-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: CS - 14 1.5 FT (H230291-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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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

**BILL TO**

ANALYSIS REQUEST

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Advance Energy Partners Project Manager: Andrew Parker Address: On - File City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Name: 20210211-1000-Prodops Project Location: A06 State Com #1 Sampler Name: Jesus Palomares <small>FOR LAB USE ONLY</small>				P.O. #: 20210211-1000-Prodops Company: Advance Energy Partners Attn: a.parker@amerenergy.com Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____			
Lab I.D. H230291		Sample I.D.		BILL TO			
11 CS-11 1.5ft 12 CS-11.2M 0-1ft 13 CS-12.2E 0-1ft 14 CS-13.2W 0-1ft 15 CS-14 0-1ft 16 CS-14 1.5ft		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME		MATRIX PRESERV SAMPLING			
11 1.5ft 12 0-1ft 13 0-1ft 14 0-1ft 15 0-1ft 16 1.5ft		11:30 11:39 11:49 12:01 12:13 12:30		Chloride TPH (GRO+DRO+MRO) BTEX (Benzene)			
Refinanced By: _____ Refinanced By: _____ Date: 1-19-23 Time: 15:15 Received By: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Remarks: Cooler Temp 1.0°C		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Turnaround Time: _____ Thermometer ID #113 _____ Correction Factor -0.5°C _____			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C 3.7 Corrected Temp. °C 3.1 Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: _____ Turnaround Time: _____ Thermometer ID #113 _____ Correction Factor -0.5°C _____		Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____			



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

January 27, 2023

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: DAGGER STATE UNIT 2H

Enclosed are the results of analyses for samples received by the laboratory on 01/23/23 16:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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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:	01/23/2023	Sampling Date:	01/23/2023
Reported:	01/27/2023	Sampling Type:	Soil
Project Name:	DAGGER STATE UNIT 2H	Sampling Condition:	Cool & Intact
Project Number:	20220510-1650-HYDROVAC	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BACKFILL 01 (H230329-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2023	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	01/25/2023	ND	2.07	104	2.00	1.86	
Ethylbenzene*	<0.050	0.050	01/25/2023	ND	2.00	100	2.00	3.35	
Total Xylenes*	<0.150	0.150	01/25/2023	ND	6.20	103	6.00	2.86	
Total BTEX	<0.300	0.300	01/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/24/2023	ND	384	96.0	400	8.00		

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	01/25/2023	ND	195	97.7	200	0.517	
DRO >C10-C28*	<10.0	10.0	01/25/2023	ND	221	110	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	01/25/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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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 181237

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 181237
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	2/20/2023