

Incident ID	NCE2003540506
District RP	
Facility ID	
Application ID	

## Closure

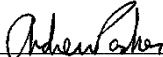
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: Sr. Env. Specialist

Signature:  Date: June 08, 2022

email: [aparker@ameredev.com](mailto:aparker@ameredev.com) Telephone: 970-570-9535

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: 08/23/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv



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

June 8, 2022

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

RE: Incident ID: NCE2003540506  
Revised Closure Report  
Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

NMOCD:

Advance Energy Partners Hat Mesa LLC (AEP) submits this revised closure report per conditional approval on March 9, 2022. This revised closure report reflects action taken to address the following NMOD issues:

- Areas no longer in use, must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH.
  - Two soil samples of the backfill material from within the remediated area from the surface to excavation depth were analyzed for chloride, BTEX, benzene, and TPH.
- Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.
  - Additional soil samples were obtained from the edges of the remediated area from the surface to excavation depth for analysis of chloride, BTEX, benzene, and TPH.
- The variance for floor confirmation samples not to exceed 900 ft<sup>2</sup> is denied. At this time, the largest variance the OCD can grant is 500 ft<sup>2</sup> for confirmation samples.
  - The sample grid was revised to less than or equal to 500 sq. ft. Additional samples were collected at remedial excavation depth for the analysis of chloride, BTEX, benzene, and TPH.
  - Sample grids less than 500 sq. ft. that were not analyzed for hydrocarbons were re-sampled at excavation depth for the analysis of chloride, BTEX, benzene, and TPH.
  - Base samples were collected at depth where lithology indicated native dirt. Soil samples were collected 0.5-inches below the base to ensure that native dirt was sampled.
- Sidewall samples should represent no more than 200 ft<sup>2</sup>.

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Dagger Lake to Merchant Pond Line Test

AEP #: 01082020-0130-prodops

- Four wall samples exceed 200 sq. ft (Table A). The wall lengths were reduced in half and the two portions were resampled from the surface to excavation depth and analyzed for chloride, BTEX, benzene, and TPH.
- Wall samples less than 200 sq. ft. that were not analyzed for hydrocarbons were re-sampled from the surface to excavation depth for the analysis of chloride, BTEX, benzene, and TPH.
- Wall samples were collected approximately 2-feet outward from the mapped remediation perimeter to ensure that native soils were encountered. If lithology of sample core indicated backfill material was present, the sample location was moved another 2-feet outward from the perimeter.

Description of attached maps:

- Plate-13a shows the revised base sampling grid with square footages. Subdivided sampling grids are appended with North (N), South (S), East (E), West (W), or Central (C).
- Plate-13b shows the revised base grid sample points. Soil base samples that originally represented an area <500 sq. ft. and have chloride and hydrocarbon data were not resampled.
- Plate-14 (revised) shows the wall grid with revised wall sample points. Soil wall samples that originally represented an area <200 sq. ft. and have chloride and hydrocarbon data were not resampled. Table A shows the wall square footages.

Appendix A contains NMOCD communications related to the conditional approval and revised sampling plan.

June 8, 2022

NCE2003540506  
Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

## Sampling Results

Soil samples were collected by implementing direct-push sampling technologies using a Geoprobe Model 7822DT. Hand auger sampling was employed at sample points within 10-feet of pipelines.

Table B is a summary of analytical results. All confirmation soil samples meet Table 1 Closure Criteria per 19.15.29 NMAC; where depth-to-water is greater than 100 feet. The Certificate of Analysis is located in Appendix B. GPS coordinates of sample locations are located in Table C.

No additional remediation or excavation was required. Disturbance to the previously restored surface was minimal. Tracks created by the Geoprobe were hand raked and smoothed to blend in with the surrounding previously restored surface.

Sincerely,

Advance Energy Partners Hat Mesa, LLC  
Aka: Ameredev II



Andrew Parker  
Env. Scientist

Copy: Dayeed Khan; Ameredev II  
Shane McNeely; Ameredev II

June 8, 2022

# Plates







N

W

E

S

Base Grid

0 20 40 US Feet



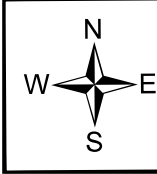
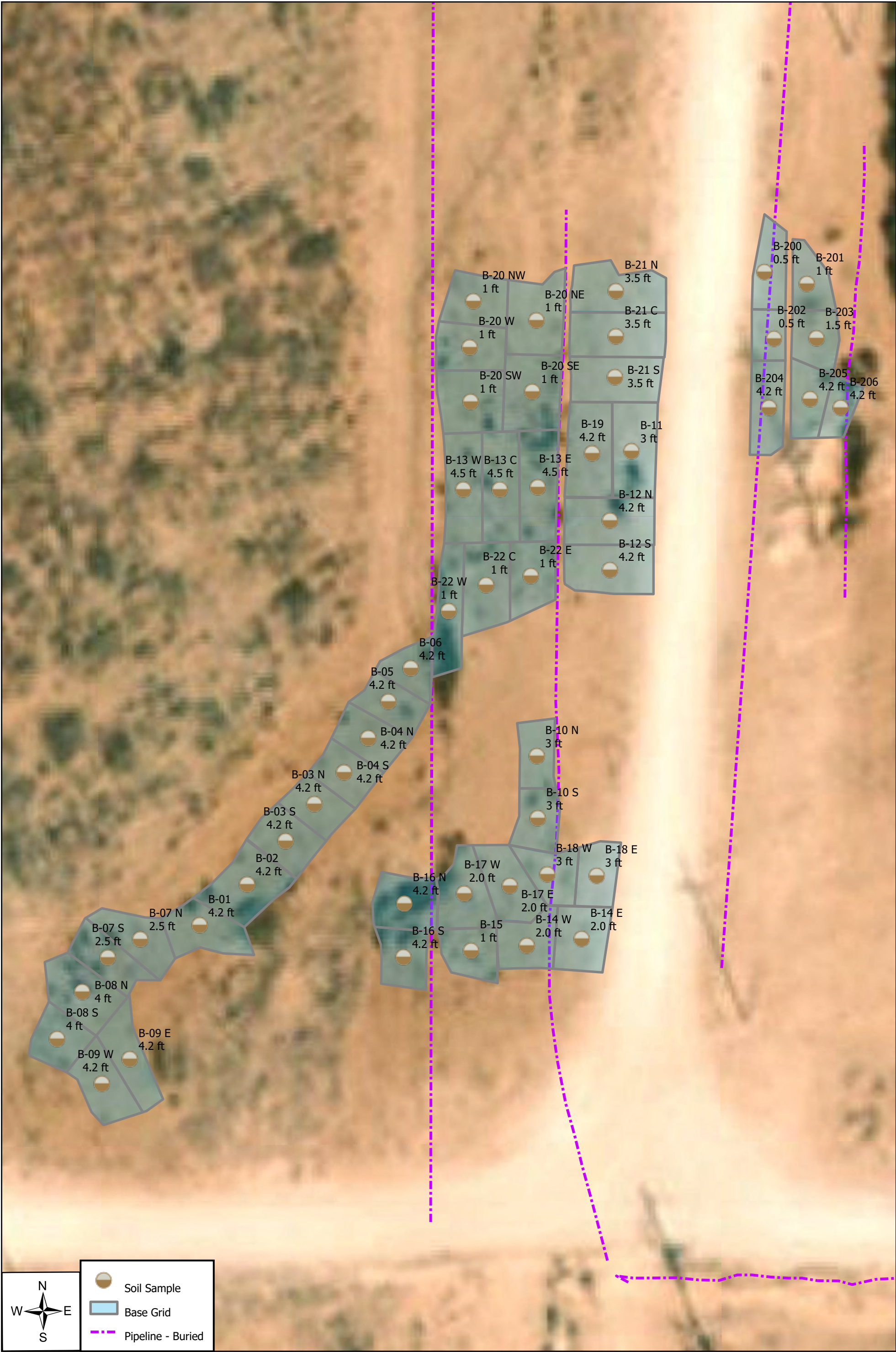
Revised Base Sampling Diagram  
(Release: 01/08/2020)

Plate 13a

Incident #: NCE2003540506  
Dagger Lake to Merchant Pond Line Test

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Soil Sample

Base Grid

Pipeline - Buried

0 20 40 US Feet



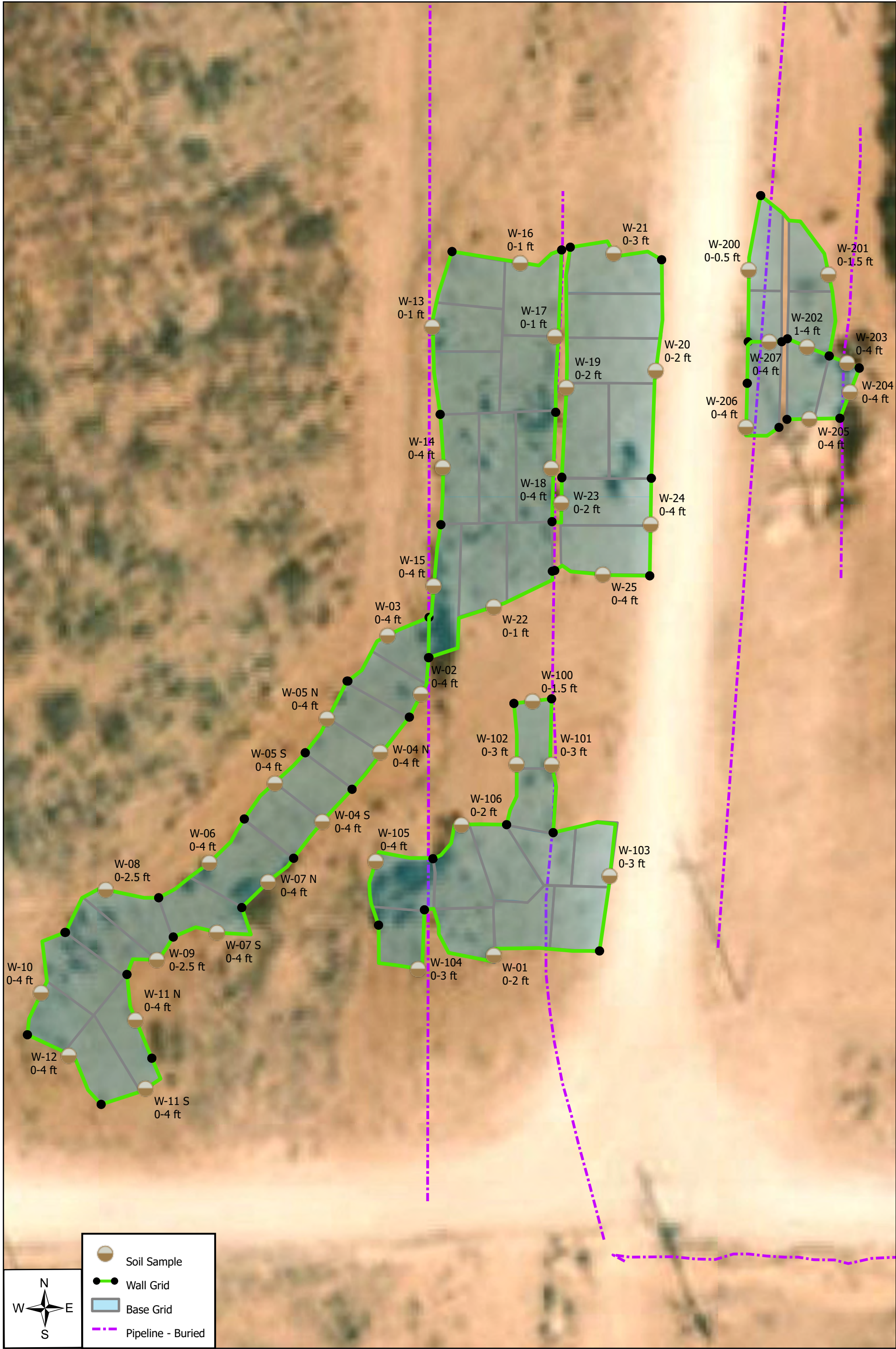
Base Sample Locations  
(Release: 01/08/2020)

Plate 13b

Incident #: NCE2003540506  
Dagger Lake to Merchant Pond Line Test

06/07/2022





Wall Sampling Locations  
(Release: 01/08/2020)

Incident #: NCE2003540506  
Dagger Lake to Merchant Pond Line Test

Plate 14  
(revised)

06/07/2022



# Tables



Table A  
Wall Sample Square Footage

Incident ID: NCE2003540506  
AEP #: 01082020-0130-prodops

Wall ID	Range	Width	Length	Sq. Ft.	Comments
W-01	0-2 ft	2	75	149.8	
W-02	0-4 ft	4	22	87.5	
W-03	0-4 ft	4	37	147.1	
W-04	0-4 ft	4	63	250.2	Split into North/South
W-04 N	0-4 ft	4	32	126.0	
W-04 S	0-4 ft	4	31	124.0	
W-05	0-4 ft	4	60	238.2	Split into North/South
W-05 N	0-4 ft	4	29	114.0	
W-05 S	0-4 ft	4	31	124.0	
W-06	0-4 ft	4	41	162.2	
W-07	0-4 ft	4	62	247.6	Split into North/South
W-07 N	0-4 ft	4	25	100.0	
W-07 S	0-4 ft	4	37	148.0	
W-08	0-2.5 ft	2.5	41	101.4	
W-09	0-2.5 ft	2.5	24	59.4	
W-10	0-4 ft	4	42	167.3	
W-11	0-4 ft	4	60	240.6	Split into North/South
W-11 N	0-4 ft	4	30	120.8	
W-11 S	0-4 ft	4	30	119.6	
W-12	0-4 ft	4	37	146.2	
W-13	0-1 ft	1	57	56.9	
W-14	0-4 ft	4	38	151.5	
W-15	0-4 ft	4	46	184.4	
W-16	0-1 ft	1	40	39.7	
W-17	0-1 ft	1	56	55.7	
W-18	0-4 ft	4	38	150.1	
W-19	0-2 ft	2	79	158.0	
W-20	0-2 ft	2	75	150.1	
W-21	0-3 ft	3	35	106.2	
W-22	0-1 ft	1	58	58.3	
W-23	0-2 ft	2	18	36.8	
W-24	0-4 ft	4	33	133.7	
W-25	0-4 ft	4	34	135.1	

03/15/2022

Advance Energy Partners  
Ameredev Operating



Table A  
Wall Sample Square Footage

Incident ID: NCE2003540506  
AEP #: 01082020-0130-prodops

Wall ID	Range	Width	Length	Sq. Ft.	Comments
W-100	0-1.5 ft	1.5	13	19.5	
W-101	0-3 ft	3	46	138.3	
W-102	0-3 ft	3	42	126.5	
W-103	0-3 ft	3	66	196.6	
W-104	0-3 ft	3	48	145.2	
W-105	0-4 ft	4	45	179.5	
W-106	0-2 ft	2	33	65.6	
W-200	0-0.5 ft	0.5	50	25.2	
W-201	0-1.5	1.5	66	99.3	
W-202	1-4 ft	3	15	46.4	
W-203	0-4 ft	4	11	44.1	
W-204	0-4 ft	4	18	73.5	
W-205	0-4 ft	4	18	72.4	
W-206	0-4 ft	4	30	120.7	
W-207	0-4 ft	4	25	100.3	

03/15/2022

Advance Energy Partners  
Ameredev Operating

06/07/2022

Table B  
Summary of SamplingNCE2003540506  
Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

Sample ID	Date	Location	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	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			
B-01	2/14/2020	Base	4.2			320						Cardinal	H000465
B-01	4/1/2022	Base	4.7			1680	<20	<30	<0.05	<0.3		Cardinal	H221843
B-02	2/14/2020	Base	4.2			864	<20	<30	<0.05	<0.30		Cardinal	H000465
B-03	2/14/2020	Base	4.2			1380					Grid Divided	Cardinal	H000465
B-03 N	4/21/2022	Base	4.7			1170	<20	<30	<0.05	<0.3		Cardinal	H221843
B-03 S	4/21/2022	Base	4.7			1230	<20	<30	<0.05	<0.3		Cardinal	H221843
B-04	2/14/2020	Base	4.2			1940					Grid Divided	Cardinal	H000465
B-04 N	4/21/2022	Base	4.7			2200	<20	<30	<0.05	<0.3		Cardinal	H221843
B-04 S	4/21/2022	Base	4.7			1920	<20	<30	<0.05	<0.3		Cardinal	H221843
B-05	2/14/2020	Base	4.2			2100						Cardinal	H000465
B-05	4/21/2022	Base	4.7			2160	<20	<30	<0.05	<0.3		Cardinal	H221843
B-06	2/14/2020	Base	4.2			2260						Cardinal	H000465
B-06	4/21/2022	Base	4.7			2800	<20	<30	<0.05	<0.3		Cardinal	H221843
B-07	2/14/2020	Base	2.5			336					Grid Divided	Cardinal	H000465
B-07 N	4/21/2022	Base	3.0			208	<20	<30	<0.05	<0.3		Cardinal	H221843
B-07 S	4/21/2022	Base	3.0			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-08	2/19/2020	Base	4.0			192					Grid Divided	Cardinal	H000529
B-08 N	4/22/2022	Base	4.5			16	<20	<30	<0.05	<0.3		Cardinal	H221843
B-08 S	4/22/2022	Base	4.5			<16	<20	<30	<0.05	<0.3		Cardinal	H221843
B-09	2/19/2020	Base	4.2			448	<20	<30	<0.05	<0.30	Grid Divided	Cardinal	H000529
B-09 E	4/22/2022	Base	4.7			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-09 W	4/22/2022	Base	4.7			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-10	2/19/2020	Base	3.0			192					Grid Divided	Cardinal	H000529
B-10 N	4/22/2022	Base	3.5			48	<20	<30	<0.05	<0.3		Cardinal	H221843
B-10 S	4/22/2022	Base	3.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-11	2/21/2020	Base	3.0			160						Cardinal	H000558
B-11	4/22/2022	Base	3.5			48	<20	<30	<0.05	<0.3		Cardinal	H221843
B-12	2/21/2020	Base	4.2			2280					Grid Divided	Cardinal	H000558
B-12 N	4/22/2022	Base	4.7			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-12 S	4/22/2022	Base	4.7			48	<20	<30	<0.05	<0.3		Cardinal	H221843



06/07/2022

Table B  
Summary of SamplingNCE2003540506  
Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

Sample ID	Date	Location	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	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			
B-13	2/21/2020	Base	4.5			1680					Grid Divided	Cardinal	H000558
B-13 C	4/22/2022	Base	4.7			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-13 E	4/22/2022	Base	5.0			1100	<20	<30	<0.05	<0.3		Cardinal	H221843
B-13 W	4/22/2022	Base	5.0			80	<20	<30	<0.05	<0.3		Cardinal	H221843
B-14	1/18/2020	Base	2.0			48	<20	<30	<0.05	<0.3	Grid Divided	Cardinal	H000208
B-14 E	4/22/2022	Base	2.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-14 W	4/22/2022	Base	2.5			48	<20	<30	<0.05	<0.3		Cardinal	H221843
B-15	1/18/2020	Base	1.0			96	<20	<30	<0.05	<0.3		Cardinal	H000208
B-16	2/19/2020	Base	4.2			1250	<20	<30	<0.05	<0.30	Grid Divided	Cardinal	H000529
B-16 N	4/22/2022	Base	4.7			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-16 S	4/22/2022	Base	4.7			16	<20	<30	<0.05	<0.3		Cardinal	H221843
B-17	2/19/2020	Base	2.0			80					Grid Divided	Cardinal	H000529
B-17 E	4/22/2022	Base	2.5			96	<20	<30	<0.05	<0.3		Cardinal	H221843
B-17 W	4/22/2022	Base	2.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-18	2/19/2020	Base	3.0			112					Grid Divided	Cardinal	H000529
B-18 E	4/22/2022	Base	3.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-18 W	4/22/2022	Base	3.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-19	2/21/2020	Base	4.2			688						Cardinal	H000558
B-19	4/22/2022	Base	4.7			<16	<20	<30	<0.05	<0.3		Cardinal	H221843
B-20	1/18/2020	Base	1.0			32	<20	<30	<0.05	<0.3	Grid Divided	Cardinal	H000208
B-20 NE	4/22/2022	Base	1.5			48	<20	<30	<0.05	<0.3		Cardinal	H221843
B-20 NW	4/22/2022	Base	1.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-20 SE	4/22/2022	Base	1.5			80	<20	<30	<0.05	<0.3		Cardinal	H221843
B-20 SW	4/22/2022	Base	1.5			416	<20	<30	<0.05	<0.3		Cardinal	H221843
B-20 W	4/25/2022	Base	1.5			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-21	2/21/2020	Base	3.5			480	<20	<30	<0.05	<0.30	Grid Divided	Cardinal	H000558
B-21 C	4/25/2022	Base	4.0			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-21 N	4/25/2022	Base	4.0			48	<20	<30	<0.05	<0.3		Cardinal	H221843
B-21 S	4/25/2022	Base	4.0			176	<20	<30	<0.05	<0.3		Cardinal	H221843
B-22	1/18/2020	Base	1.0			256	<20	<30	<0.05	<0.3	Grid Divided	Cardinal	H000208
B-22 C	4/25/2022	Base	1.5			160	<20	<30	<0.05	<0.3		Cardinal	H221843
B-22 E	4/25/2022	Base	1.5			176	<20	<30	<0.05	<0.3		Cardinal	H221843
B-22 W	4/25/2022	Base	1.5			224	<20	<30	<0.05	<0.3		Cardinal	H221843
B-200	4/1/2020	Base	0.5			96						Cardinal	H000975
B-200	4/25/2022	Base	1.0			16	<20	<30	<0.05	<0.3		Cardinal	H221843
B-201	4/1/2020	Base	1.0			16						Cardinal	H000975
B-201	4/25/2022	Base	1.5			64	<20	<30	<0.05	<0.3		Cardinal	H221843
B-202	4/1/2020	Base	0.5			272						Cardinal	H000975
B-202	4/25/2022	Base	1.0			32	<20	<30	<0.05	<0.3		Cardinal	H221843
B-203	4/1/2020	Base	1.5			128	<20	<30	<0.05	<0.30		Cardinal	H000975
B-204	4/1/2020	Base	4.2			656						Cardinal	H000975
B-204	4/25/2022	Base	4.7			1120	<20	<30	<0.05	<0.3		Cardinal	H221843

06/07/2022

Table B  
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Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

Sample ID	Date	Location	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	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			
B-205	4/1/2020	Base	4.2			816						Cardinal	H000975
B-205	4/25/2022	Base	4.7			1470	<20	<30	<0.05	<0.3		Cardinal	H221843
B-206	4/1/2020	Base	4.2			1460	<20	<30	<0.05	<0.30		Cardinal	H000975
W-01	2/14/2020	Wall		0.0	2.0	128	<20	<30	<0.05	<0.30		Cardinal	H000465
W-02	2/13/2020	Wall		0.0	4.0	96						Cardinal	H000465
W-02	4/21/2022	Wall		0.0	4.0	160	<20	<30	<0.05	<0.3		Cardinal	H221842
W-03	2/14/2020	Wall		0.0	4.0	192						Cardinal	H000465
W-03	4/21/2022	Wall		0.0	4.0	16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-04	2/14/2020	Wall		0.0	4.0	144					Grid Divided	Cardinal	H000465
W-04 N	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-04 S	4/21/2022	Wall		0.0	4.0	<16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-05	2/14/2020	Wall		0.0	4.0	160					Grid Divided	Cardinal	H000465
W-05 N	4/21/2022	Wall		0.0	4.0	96	<20	<30	<0.05	<0.3		Cardinal	H221842
W-05 S	4/21/2022	Wall		0.0	4.0	96	<20	<30	<0.05	<0.3		Cardinal	H221842
W-06	2/14/2020	Wall		0.0	4.0	48						Cardinal	H000465
W-06	4/21/2022	Wall		0.0	4.0	96	<20	<30	<0.05	<0.3		Cardinal	H221842
W-07	2/14/2020	Wall		0.0	4.0	160					Grid Divided	Cardinal	H000465
W-07 N	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-07 S	4/21/2022	Wall		0.0	4.0	<16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-08	2/14/2020	Wall		0.0	2.5	64	<20	<30	<0.05	<0.30		Cardinal	H000465
W-09	2/14/2020	Wall		0.0	2.5	32						Cardinal	H000465
W-09	4/21/2022	Wall		0.0	2.5	<16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-10	2/19/2020	Wall		0.0	4.0	112						Cardinal	H000529
W-10	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-11	2/19/2020	Wall		0.0	4.0	64					Grid Divided	Cardinal	H000529
W-11 N	4/21/2022	Wall		0.0	4.0	16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-11 S	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-12	2/19/2020	Wall		0.0	4.0	32	<20	<30	<0.05	<0.30		Cardinal	H000529
W-13	2/21/2020	Wall		0.0	1.0	80	<20	<30	<0.05	<0.30		Cardinal	H000558
W-14	2/21/2020	Wall		0.0	4.0	208	<20	<30	<0.05	<0.30		Cardinal	H000558
W-15	2/21/2020	Wall		0.0	4.0	320	<20	<30	<0.05	<0.30		Cardinal	H000558
W-16	2/21/2020	Wall		0.0	1.0	16	<20	<30	<0.05	<0.30		Cardinal	H000558
W-17	2/21/2020	Wall		0.0	1.0	<16	<20	<30	<0.05	<0.30		Cardinal	H000558
W-18	2/21/2020	Wall		0.0	4.0	144	<20	<30	<0.05	<0.30		Cardinal	H000558
W-19	2/21/2020	Wall		0.0	2.0	144						Cardinal	H000558
W-19	4/21/2022	Wall		0.0	2.0	<16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-20	2/21/2020	Wall		0.0	2.0	192						Cardinal	H000558
W-20	4/21/2022	Wall		0.0	2.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-21	2/21/2020	Wall		0.0	3.0	80						Cardinal	H000558
W-21	4/21/2022	Wall		0.0	3.0	16	<20	<30	<0.05	<0.3		Cardinal	H221842
W-22	2/21/2020	Wall		0.0	1.0	32	<20	<30	<0.05	<0.30		Cardinal	H000558
W-23	2/21/2020	Wall		0.0	2.0	176	<20	<30	<0.05	<0.30		Cardinal	H000558



06/07/2022

Table B  
Summary of SamplingNCE2003540506  
Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

Sample ID	Date	Location	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	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			
W-24	2/21/2020	Wall		0.0	4.0	128						Cardinal	H000558
W-24	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-25	2/21/2020	Wall		0.0	4.0	96						Cardinal	H000558
W-25	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-100	2/14/2020	Wall		0.0	1.5	48						Cardinal	H000465
W-100	4/21/2022	Wall		0.0	1.5	64	<20	<30	<0.05	<0.3		Cardinal	H221842
W-101	2/19/2020	Wall		0.0	3.0	240						Cardinal	H000529
W-101	4/21/2022	Wall		0.0	3.0	208	<20	<30	<0.05	<0.3		Cardinal	H221842
W-102	2/19/2020	Wall		0.0	3.0	160						Cardinal	H000529
W-102	4/21/2022	Wall		0.0	3.0	48	<20	<30	<0.05	<0.3		Cardinal	H221842
W-103	2/19/2020	Wall		0.0	3.0	64						Cardinal	H000529
W-103	4/21/2022	Wall		0.0	3.0	80	<20	<30	<0.05	<0.3		Cardinal	H221842
W-104	2/19/2020	Wall		0.0	3.0	48	<20	<30	<0.05	<0.30		Cardinal	H000529
W-105	2/19/2020	Wall		0.0	4.0	80						Cardinal	H000529
W-105	4/21/2022	Wall		0.0	4.0	48	<20	<30	<0.05	<0.3		Cardinal	H221842
W-106	2/19/2020	Wall		0.0	2.0	272						Cardinal	H000529
W-106	4/21/2022	Wall		0.0	2.0	48	<20	<30	<0.05	<0.3		Cardinal	H221842
W-200	4/1/2020	Wall		0.0	0.5	80	<20	<30	<0.05	<0.30		Cardinal	H000975
W-201	4/1/2020	Wall		0.0	1.5	80	<20	<30	<0.05	<0.30		Cardinal	H000975
W-202	4/1/2020	Wall		1.0	4.0	192	<20	<30	<0.05	<0.30		Cardinal	H000975
W-203	4/1/2020	Wall		0.0	4.0	160						Cardinal	H000977
W-203	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-204	4/1/2020	Wall		0.0	4.0	80	<20	<30.6	<0.05	<0.30		Cardinal	H000977
W-205	4/1/2020	Wall		0.0	4.0	144						Cardinal	H000977
W-205	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
W-206	4/1/2020	Wall		0.0	4.0	144	<20	<30.8	<0.05	<0.30		Cardinal	H000977
W-207	4/1/2020	Wall		0.0	4.0	144						Cardinal	H000990
W-207	4/21/2022	Wall		0.0	4.0	32	<20	<30	<0.05	<0.3		Cardinal	H221842
BF-01	5/12/2022	Backfill		1.5	3.5	16	<20	<30.8	<0.05	<0.30		Cardinal	H222055
BF-02	5/12/2022	Backfill		1.5	3.5	32	<20	<30.8	<0.05	<0.30		Cardinal	H222055

Base Samples		
Sample ID	Latitude	Longitude
B-01	32.41958661	-103.60507356
B-02	32.41962492	-103.60502073
B-03 N	32.41969967	-103.60494526
B-03 S	32.41966514	-103.60497753
B-04 N	32.41976119	-103.60488548
B-04 S	32.41972941	-103.60491208
B-05	32.41979578	-103.60486261
B-06	32.41982656	-103.60483791
B-07 N	32.41957388	-103.60513918
B-07 S	32.41955693	-103.60517555
B-08 N	32.41952477	-103.60520404
B-08 S	32.41948103	-103.60523215
B-09 E	32.41946141	-103.60515185
B-09 W	32.41943844	-103.60518309
B-10 N	32.41974335	-103.60469882
B-10 S	32.41968507	-103.60469835
B-11	32.42002931	-103.60459118
B-12 N	32.41996437	-103.60461564
B-12 S	32.41991807	-103.60461601
B-13 C	32.41999420	-103.60473727
B-13 E	32.41999596	-103.60469585
B-13 W	32.41999444	-103.60477820
B-14 E	32.41957145	-103.60465032
B-14 W	32.41956542	-103.60471107
B-15	32.41956112	-103.60477264
B-16 N	32.41960571	-103.60484673
B-16 S	32.41955543	-103.60484808
B-17 E	32.41962180	-103.60472944
B-17 W	32.41961491	-103.60477984
B-18 E	32.41963082	-103.60463338
B-18 W	32.41963239	-103.60468790
B-19	32.42002733	-103.60463497
B-20 NE	32.42015281	-103.60469600
B-20 NW	32.42017117	-103.60476549
B-20 SE	32.42008579	-103.60470077
B-20 SW	32.42007700	-103.60476907
B-20 W	32.42012809	-103.60476960
B-21 C	32.42013713	-103.60460766
B-21 N	32.42017983	-103.60460732
B-21 S	32.42009922	-103.60460891
B-22 C	32.41990450	-103.60475352
B-22 E	32.41991260	-103.60470405
B-22 W	32.41988000	-103.60479512
B-200	32.42019685	-103.60444274
B-201	32.42018558	-103.60439560
B-202	32.42013408	-103.60443276
B-203	32.42013429	-103.60438550
B-204	32.42006926	-103.60443855
B-205	32.42007716	-103.60439297
B-206	32.42006880	-103.60435890

Wall Samples		
Sample ID	Latitude	Longitude
W-01	32.41953751	-103.60474468
W-02	32.41978363	-103.60482322
W-03	32.41983894	-103.60485968
W-04 N	32.41972910	-103.60486868
W-04 S	32.41966426	-103.60493371
W-05 N	32.41976129	-103.60492819
W-05 S	32.41970075	-103.60498592
W-06	32.41962626	-103.60505978
W-07 N	32.41960784	-103.60499428
W-07 S	32.41956066	-103.60505160
W-08	32.41960150	-103.60517485
W-09	32.41953518	-103.60511853
W-10	32.41950485	-103.60524719
W-100	32.41977628	-103.60469931
W-101	32.41971666	-103.60467870
W-102	32.41971699	-103.60471774
W-103	32.41961128	-103.60461498
W-104	32.41952493	-103.60482845
W-105	32.41962643	-103.60487482
W-106	32.41966053	-103.60477906
W-11 N	32.41947870	-103.60514269
W-11 S	32.41941398	-103.60513217
W-12	32.41944556	-103.60521696
W-13	32.42012944	-103.60480765
W-14	32.41999716	-103.60479712
W-15	32.41988526	-103.60480837
W-16	32.42018929	-103.60470967
W-17	32.42011966	-103.60467159
W-18	32.41999578	-103.60467710
W-19	32.42007130	-103.60465966
W-20	32.42008692	-103.60456015
W-200	32.42018105	-103.60445626
W-201	32.42017661	-103.60436761
W-202	32.42010818	-103.60439217
W-203	32.42009275	-103.60434750
W-204	32.42006521	-103.60434491
W-205	32.42004030	-103.60439014
W-206	32.42003316	-103.60446037
W-207	32.42011317	-103.60443356
W-21	32.42019752	-103.60460585
W-22	32.41986544	-103.60474192
W-23	32.41996300	-103.60466609
W-24	32.41994222	-103.60456720
W-25	32.41989504	-103.60462061

# Appendix A

## NMOCD Communications





**Andrew Parker**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Wednesday, March 16, 2022 8:26 AM  
**To:** Andrew Parker  
**Subject:** RE: [EXTERNAL] Dagger Lake to Merchant Frac Pond Fresh Water Line Test nCE2003540506

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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

Andrew,

The previous remediation plan was conditionally approved. Please make sure those conditions are met on your future closure report.

Regards,

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Andrew Parker <AParker@advanceenergypartners.com>  
**Sent:** Wednesday, March 16, 2022 8:16 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Subject:** [EXTERNAL] Dagger Lake to Merchant Frac Pond Fresh Water Line Test nCE2003540506

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

Mr. Hamlet,

Per the conditionally approved remediation plan, below, attached is a revised remediation plan that address the below issues. Please advise whether I need to submit to NMOCD online or if this email is sufficient to proceed as conditionally approved with the attached revisions.

Release Name: Dagger Lake to Merchant Frac Pond Fresh Water Line Test

AEP #: 01082020-0130-prodops

Incident ID: nCE2003540506

Thank you.

Andrew Parker

Environmental Scientist

970-570-9535



---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Wednesday, March 9, 2022 8:31 AM

**To:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>

**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 60394

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#) nCE2003540506, with the following conditions:

- **The Remediation Plan is Conditionally Approved. Reclamation of areas no longer in use, must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Four feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for floor confirmation samples not to exceed 900 ft<sup>2</sup> is denied. At this time, the largest variance the OCD can grant is 500 ft<sup>2</sup> for confirmation samples. Sidewall samples should represent no more than 200 ft<sup>2</sup>. The work will need to occur in 90 days after the work plan has been 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,  
Robert Hamlet  
575-748-1283  
[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)

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



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

March 15, 2022

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

RE: Incident ID: NCE2003540506  
Revised Remediation per Conditional Approval  
Dagger Lake to Merchant Pond Line Test  
AEP #: 01082020-0130-prodops

NMOCD:

Advance Energy Partners Hat Mesa LLC (AEP) submits this revised remediation plan per conditional approval on March 9, 2022. This revised remediation plan addresses the following NMOD issues:

- Areas no longer in use, must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH.
  - Two soil samples of the backfill material from within the remediated area from the surface to excavation depth will be analyzed for chloride, BTEX, benzene, and TPH.
- Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.
  - Obtain additional soil samples from the edges of the release from the surface to excavation depth for analysis of chloride, BTEX, benzene, and TPH.
- The variance for floor confirmation samples not to exceed 900 ft<sup>2</sup> is denied. At this time, the largest variance the OCD can grant is 500 ft<sup>2</sup> for confirmation samples.
  - The sample grid was revised to less than 500 sq. ft. Additional samples will be collected at excavation depth for the analysis of chloride, BTEX, benzene, and TPH.
  - Sample grids less than 500 sq. ft. that were not analyzed for hydrocarbons will be re-sampled at excavation depth for the analysis of chloride, BTEX, benzene, and TPH.
- Sidewall samples should represent no more than 200 ft<sup>2</sup>.
  - Four wall samples exceed 200 sq. ft (Table A). The wall lengths were reduced in half and the two portions will be resampled from the surface to excavation depth and analyzed for chloride, BTEX, benzene, and TPH.



Incident ID: NCE2003540506  
AEP #: 01082020-0130-prodops

- Wall samples less than 200 sq. ft. that were not analyzed for hydrocarbons will be re-sampled from the surface to excavation depth for the analysis of chloride, BTEX, benzene, and TPH.

Description of attached maps:

- Plate-13a shows the revised sampling grid with square footages. Subdivided sampling grids are appended with North (N), South (S), East (E), West (W), or Central (C).
- Plate-13b shows the proposed base grid re-sample points. Soil base samples that originally represented an area <500 sq. ft. and have chloride and hydrocarbon data will not be resampled.
- Plate-14 (revised) shows the wall grid with proposed wall re-sample points. Soil wall samples that originally represented an area <200 sq. ft. and have chloride and hydrocarbon data will not be resampled. Table A shows the wall square footages.

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

Sincerely,  
Advance Energy Partners Hat Mesa, LLC  
Aka: Ameredev II



Andrew Parker  
Env. Scientist

Copy: Shane McNeely; Ameredev II

March 15, 2022

Table A  
Wall Sample Square Footage

Incident ID: NCE2003540506  
AEP #: 01082020-0130-prodops

Wall ID	Range	Width	Length	Sq. Ft.	Comments
W-01	0-2 ft	2	75	149.8	
W-02	0-4 ft	4	22	87.5	
W-03	0-4 ft	4	37	147.1	
W-04	0-4 ft	4	63	250.2	Split into North/South
W-04 N	0-4 ft	4	32	126.0	
W-04 S	0-4 ft	4	31	124.0	
W-05	0-4 ft	4	60	238.2	Split into North/South
W-05 N	0-4 ft	4	29	114.0	
W-05 S	0-4 ft	4	31	124.0	
W-06	0-4 ft	4	41	162.2	
W-07	0-4 ft	4	62	247.6	Split into North/South
W-07 N	0-4 ft	4	25	100.0	
W-07 S	0-4 ft	4	37	148.0	
W-08	0-2.5 ft	2.5	41	101.4	
W-09	0-2.5 ft	2.5	24	59.4	
W-10	0-4 ft	4	42	167.3	
W-11	0-4 ft	4	60	240.6	Split into North/South
W-11 N	0-4 ft	4	30	120.8	
W-11 S	0-4 ft	4	30	119.6	
W-12	0-4 ft	4	37	146.2	
W-13	0-1 ft	1	57	56.9	
W-14	0-4 ft	4	38	151.5	
W-15	0-4 ft	4	46	184.4	
W-16	0-1 ft	1	40	39.7	
W-17	0-1 ft	1	56	55.7	
W-18	0-4 ft	4	38	150.1	
W-19	0-2 ft	2	79	158.0	
W-20	0-2 ft	2	75	150.1	
W-21	0-3 ft	3	35	106.2	
W-22	0-1 ft	1	58	58.3	
W-23	0-2 ft	2	18	36.8	
W-24	0-4 ft	4	33	133.7	
W-25	0-4 ft	4	34	135.1	

03/15/2022

Advance Energy Partners  
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Table A  
Wall Sample Square Footage

Incident ID: NCE2003540506  
AEP #: 01082020-0130-prodops

Wall ID	Range	Width	Length	Sq. Ft.	Comments
W-100	0-1.5 ft	1.5	13	19.5	
W-101	0-3 ft	3	46	138.3	
W-102	0-3 ft	3	42	126.5	
W-103	0-3 ft	3	66	196.6	
W-104	0-3 ft	3	48	145.2	
W-105	0-4 ft	4	45	179.5	
W-106	0-2 ft	2	33	65.6	
W-200	0-0.5 ft	0.5	50	25.2	
W-201	0-1.5	1.5	66	99.3	
W-202	1-4 ft	3	15	46.4	
W-203	0-4 ft	4	11	44.1	
W-204	0-4 ft	4	18	73.5	
W-205	0-4 ft	4	18	72.4	
W-206	0-4 ft	4	30	120.7	
W-207	0-4 ft	4	25	100.3	

03/15/2022

Advance Energy Partners  
Ameredev Operating





N

W

E

S

Base Grid

0 20 40 US Feet



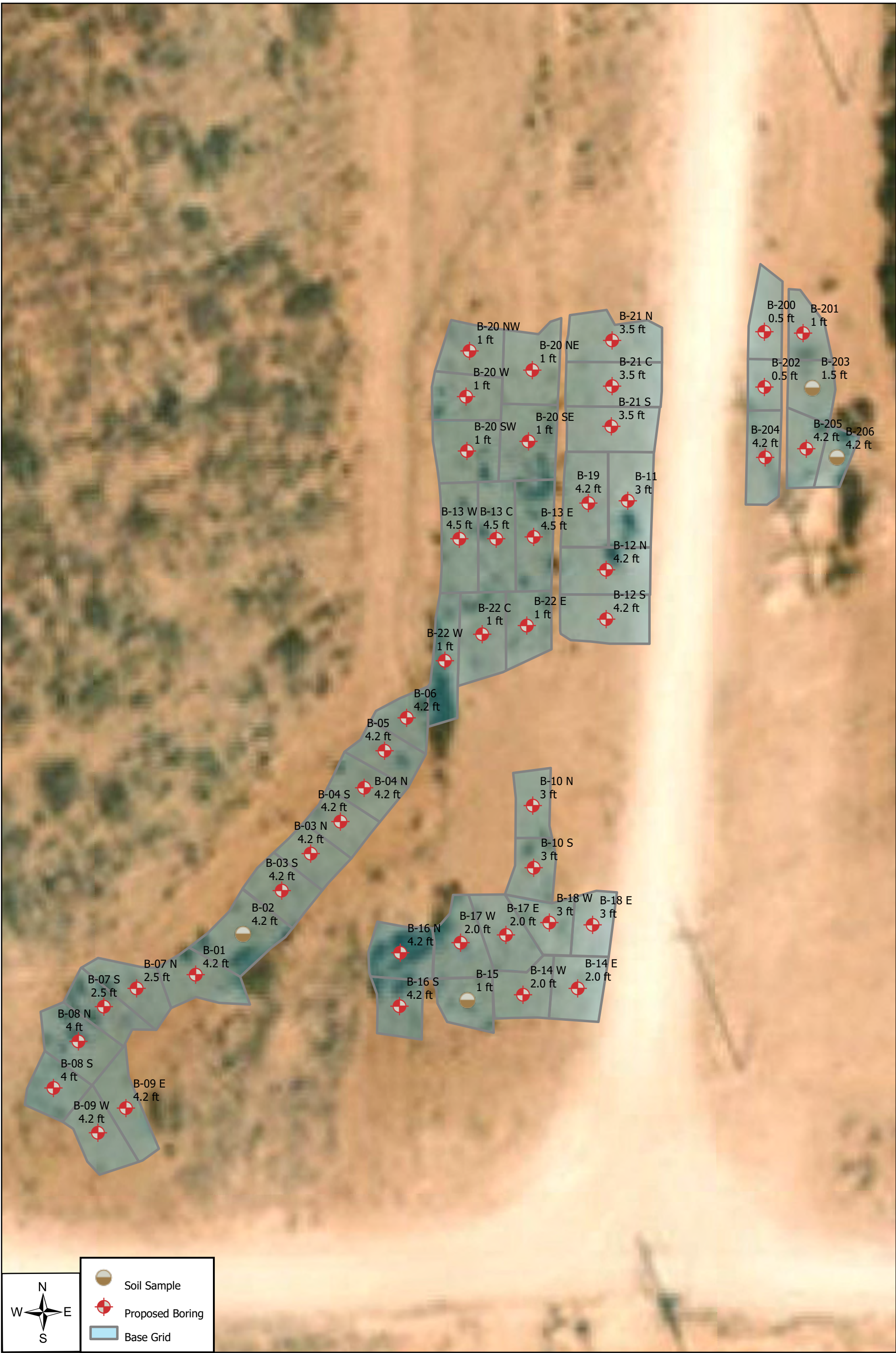
Revised Base Sampling Diagram  
(Release: 01/08/2020)

Plate 13a

Incident #: NCE2003540506  
Dagger Lake to Merchant Pond Line Test

03/15/2022





N

W

E

S

Soil Sample

Proposed Boring

Base Grid

0 20 40 US Feet



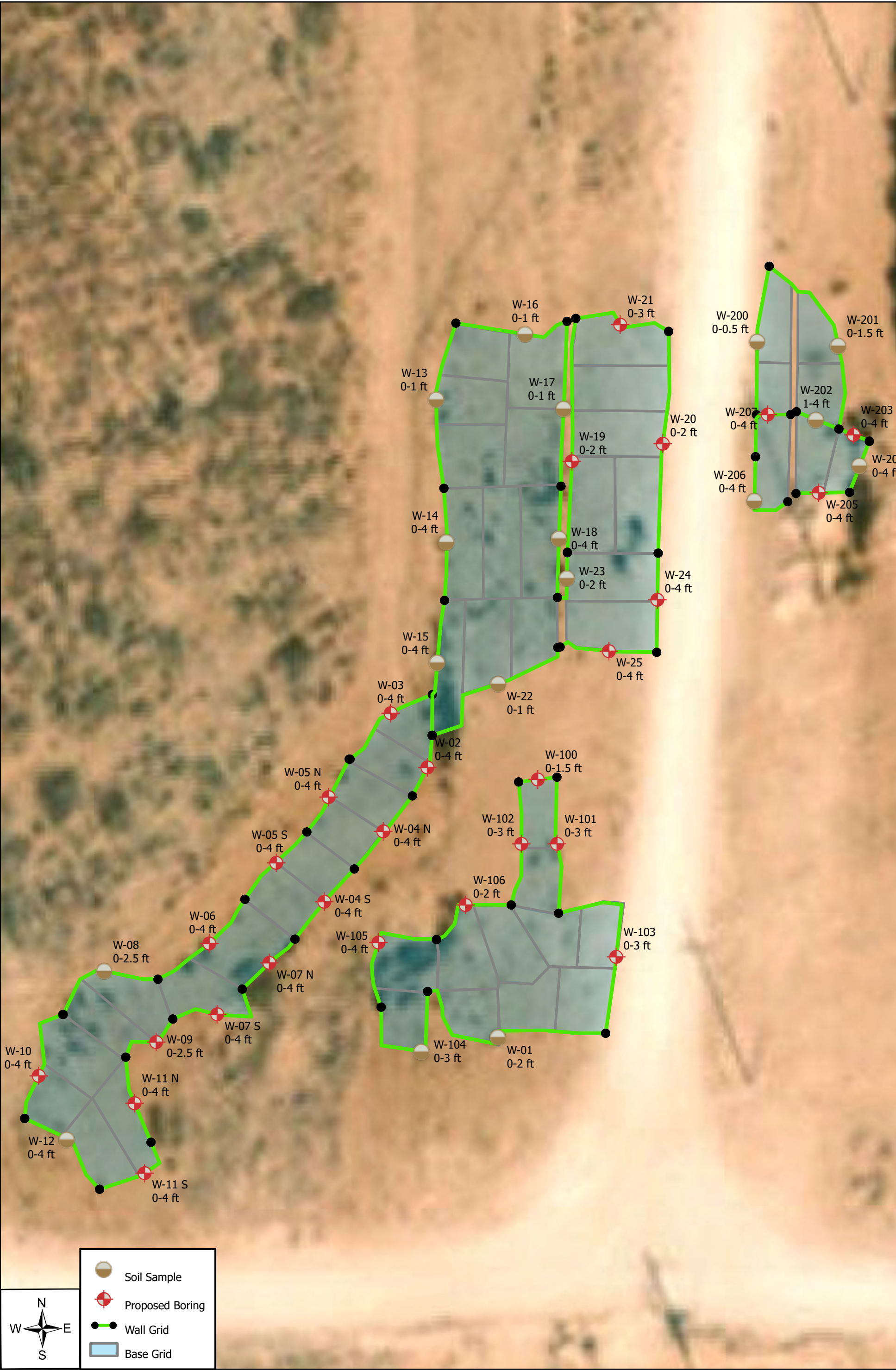
Proposed Re-Sample Base Points  
(Release: 01/08/2020)

Incident #: NCE2003540506  
Dagger Lake to Merchant Pond Line Test

Plate 13b

03/15/2022





**Andrew Parker**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Monday, April 18, 2022 9:56 AM  
**To:** Andrew Parker  
**Cc:** Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] 48 hour sampling notice nCE2003540506

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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

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.

**Robert Hamlet** • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>  
**Sent:** Monday, April 18, 2022 9:03 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Subject:** Fw: [EXTERNAL] 48 hour sampling notice nCE2003540506

---

**From:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>  
**Sent:** Monday, April 18, 2022 7:09 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Subject:** RE: [EXTERNAL] 48 hour sampling notice nCE2003540506

NMOCD,

Please accept this email as the 48-hour sampling notice for Incident # nCE2003540506. Sampling will begin on April 21, 2022 unless otherwise notified.



Location: Dagger Lake to Merchant Frac Pond Fresh Water Line Test  
AEP #: 01082020-0130-prodops

Thank you,

Andrew Parker  
Environmental Scientist  
970-570-9535



---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Tuesday, April 12, 2022 4:00 PM  
**To:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** RE: [EXTERNAL] 48 hour sampling notice nCE2003540506

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

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.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>  
**Sent:** Tuesday, April 12, 2022 2:35 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** RE: [EXTERNAL] 48 hour sampling notice nCE2003540506

Mr. Hamlet,

Hand auger sampling will likely commence on Thursday or Friday April 12-13<sup>th</sup> for the hand auger samples. Geoprobe direct-push sampling may occur next week; I will send out another notice on confirmed dates for the geoprobe work. Unexpected events in the oil field may delay this weeks sampling a few days.

Regards.

Andrew Parker  
Environmental Scientist  
970-570-9535



---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Tuesday, April 12, 2022 3:28 PM  
**To:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** RE: [EXTERNAL] 48 hour sampling notice nCE2003540506

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Andrew,

Please be more precise on dates/times that you will be sampling. In case an OCD environmental specialist would like to witness the soil sampling.

Regards,

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>  
**Sent:** Tuesday, April 12, 2022 8:46 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Subject:** [EXTERNAL] 48 hour sampling notice nCE2003540506

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

NMOCD,

Please accept this 48 hour sampling notice for incident number nCE2003540506 for the Dagger Lake to Merchant Frac Pond Fresh Water Line Test location (AEP #: 01082020-0130-prodops). The sampling will occur over the next few weeks as we will hand auger around the pipelines and will use a Geoprobe within low risk areas. Please contact me with any questions.

Thank you.

Andrew Parker  
Environmental Scientist  
970-570-9535



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**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>

**Sent:** Wednesday, March 9, 2022 9:31 AM

**To:** Andrew Parker <[AParker@advanceenergypartners.com](mailto:AParker@advanceenergypartners.com)>

**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 60394

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#) nCE2003540506, with the following conditions:

- **The Remediation Plan is Conditionally Approved.** Reclamation of areas no longer in use, must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Four feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for floor confirmation samples not to exceed 900 ft<sup>2</sup> is denied. At this time, the largest variance the OCD can grant is 500 ft<sup>2</sup> for confirmation samples. Sidewall samples should represent no more than 200 ft<sup>2</sup>. The work will need to occur in 90 days after the work plan has been 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,  
Robert Hamlet  
575-748-1283  
[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)

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

# Appendix B

## Certificate of Analysis





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

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February 26, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 01/22/20 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 05 4.2'	H000208-01	Soil	18-Jan-20 08:00	22-Jan-20 08:55
B - 22 1'	H000208-02	Soil	18-Jan-20 08:30	22-Jan-20 08:55
B - 07 3'	H000208-03	Soil	18-Jan-20 09:00	22-Jan-20 08:55
B - 20 1'	H000208-04	Soil	18-Jan-20 09:30	22-Jan-20 08:55
B - 09 2'	H000208-05	Soil	18-Jan-20 10:00	22-Jan-20 08:55
B - 12 1'	H000208-06	Soil	18-Jan-20 10:30	22-Jan-20 08:55
B - 14 2'	H000208-07	Soil	18-Jan-20 11:00	22-Jan-20 08:55
B - 15 1'	H000208-08	Soil	18-Jan-20 11:30	22-Jan-20 08:55
B - 16 2'	H000208-09	Soil	18-Jan-20 12:00	22-Jan-20 08:55
B - 17 1'	H000208-10	Soil	18-Jan-20 12:30	22-Jan-20 08:55

02/24/20 - Client revised sample IDs for -02 and -04 via email.

02/26/20 - This is the revised report and will replace the one sent on 01/23/20.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 05 4.2'**  
**H000208-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>448</b>		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	95.7 %	73.3-129		0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0012113	MS	22-Jan-20	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0012113	MS	22-Jan-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0012113	MS	22-Jan-20	8015B	

Surrogate: 1-Chlorooctane	101 %	41-142		0012113	MS	22-Jan-20	8015B	
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Surrogate: 1-Chlorooctadecane	104 %	37.6-147		0012113	MS	22-Jan-20	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 22 1'**  
**H000208-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %		41-142	0012113	MS	23-Jan-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %		37.6-147	0012113	MS	23-Jan-20	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 07 3'**  
**H000208-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>704</b>		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		95.2 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>		106 %		41-142	0012113	MS	23-Jan-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		109 %		37.6-147	0012113	MS	23-Jan-20	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 20 1'**  
**H000208-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.5 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012113	MS	23-Jan-20	8015B	

Surrogate: 1-Chlorooctane			106 %		41-142	0012113	MS	23-Jan-20	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		37.6-147	0012113	MS	23-Jan-20	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 09 2'**  
**H000208-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.3 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012204	MS	22-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012204	MS	22-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012204	MS	22-Jan-20	8015B	

Surrogate: 1-Chlorooctane			105 %		41-142	0012204	MS	22-Jan-20	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		37.6-147	0012204	MS	22-Jan-20	8015B	
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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:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 12 1'**  
**H000208-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %		41-142	0012204	MS	23-Jan-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		37.6-147	0012204	MS	23-Jan-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 14 2'**  
**H000208-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.7 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	

Surrogate: 1-Chlorooctane			99.9 %		41-142	0012204	MS	23-Jan-20	8015B	
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Surrogate: 1-Chlorooctadecane			98.6 %		37.6-147	0012204	MS	23-Jan-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 15 1'**  
**H000208-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.4 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	

Surrogate: 1-Chlorooctane			106 %		41-142	0012204	MS	23-Jan-20	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		37.6-147	0012204	MS	23-Jan-20	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 16 2'**  
**H000208-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	95.9 %	73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	

Surrogate: 1-Chlorooctane	103 %	41-142	0012204	MS	23-Jan-20	8015B	
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Surrogate: 1-Chlorooctadecane	101 %	37.6-147	0012204	MS	23-Jan-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**B - 17 1'**  
**H000208-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	0012211	AC	22-Jan-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0012210	MS	22-Jan-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0012210	MS	22-Jan-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		73.3-129	0012210	MS	22-Jan-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0012204	MS	23-Jan-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %		41-142	0012204	MS	23-Jan-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		37.6-147	0012204	MS	23-Jan-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0012211 - 1:4 DI Water</b>									
<b>Blank (0012211-BLK1)</b>					Prepared & Analyzed: 22-Jan-20				
Chloride	ND	16.0	mg/kg						
<b>LCS (0012211-BS1)</b>					Prepared & Analyzed: 22-Jan-20				
Chloride	416	16.0	mg/kg	400		104	80-120		
<b>LCS Dup (0012211-BSD1)</b>					Prepared & Analyzed: 22-Jan-20				
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0012210 - Volatiles****Blank (0012210-BLK1)**

Prepared &amp; Analyzed: 22-Jan-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.4	73.3-129			

**LCS (0012210-BS1)**

Prepared &amp; Analyzed: 22-Jan-20

Benzene	1.95	0.050	mg/kg	2.00		97.3	72.2-131			
Toluene	1.94	0.050	mg/kg	2.00		97.0	71.7-126			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.2	68.9-126			
Total Xylenes	5.73	0.150	mg/kg	6.00		95.4	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.1	73.3-129			

**LCS Dup (0012210-BSD1)**

Prepared &amp; Analyzed: 22-Jan-20

Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131	5.89	14.6	
Toluene	2.06	0.050	mg/kg	2.00		103	71.7-126	6.20	17.4	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	68.9-126	6.41	18.9	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	71.4-125	6.75	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0472		mg/kg	0.0500		94.5	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINI  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0012113 - General Prep - Organics****Blank (0012113-BLK1)**

Prepared: 21-Jan-20 Analyzed: 22-Jan-20

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102		41-142	
Surrogate: 1-Chlorooctadecane	52.6		mg/kg	50.0		105		37.6-147	

**LCS (0012113-BS1)**

Prepared: 21-Jan-20 Analyzed: 22-Jan-20

GRO C6-C10	206	10.0	mg/kg	200		103		76.5-133	
DRO >C10-C28	218	10.0	mg/kg	200		109		72.9-138	
Total TPH C6-C28	424	10.0	mg/kg	400		106		78-132	
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112		41-142	
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114		37.6-147	

**LCS Dup (0012113-BS1)**

Prepared: 21-Jan-20 Analyzed: 22-Jan-20

GRO C6-C10	209	10.0	mg/kg	200		104		76.5-133	1.03	20.6
DRO >C10-C28	220	10.0	mg/kg	200		110		72.9-138	1.06	20.6
Total TPH C6-C28	428	10.0	mg/kg	400		107		78-132	1.05	18
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113		41-142		
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116		37.6-147		

**Batch 0012204 - General Prep - Organics****Blank (0012204-BLK1)**

Prepared &amp; Analyzed: 22-Jan-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103		41-142		
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.7		37.6-147		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104

Project: ADVANCE ENERGY  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: NONE

Reported:  
26-Feb-20 10:15

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0012204 - General Prep - Organics****LCS (0012204-BS1)**

Prepared &amp; Analyzed: 22-Jan-20

GRO C6-C10	196	10.0	mg/kg	200		97.9	76.5-133			
DRO >C10-C28	183	10.0	mg/kg	200		91.6	72.9-138			
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	78-132			
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	41-142			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	37.6-147			

**LCS Dup (0012204-BS1)**

Prepared &amp; Analyzed: 22-Jan-20

GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133	3.17	20.6	
DRO >C10-C28	183	10.0	mg/kg	200		91.5	72.9-138	0.0634	20.6	
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	78-132	1.62	18	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	41-142			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	37.6-147			

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---

### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

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



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February 17, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 02/14/20 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/14/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 01 4.2' (H000465-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/17/2020	ND	432	108	400	0.00	

**Sample ID: B - 02 4.2' (H000465-02)**

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2020	ND	1.76	87.9	2.00	2.96	
Toluene*	<0.050	0.050	02/14/2020	ND	1.80	89.9	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/14/2020	ND	1.85	92.4	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/14/2020	ND	5.36	89.4	6.00	3.00	
Total BTEx	<0.300	0.300	02/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	02/17/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2020	ND	209	105	200	0.101	
DRO >C10-C28*	<10.0	10.0	02/15/2020	ND	198	99.1	200	0.678	
EXT DRO >C28-C36	<10.0	10.0	02/15/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/14/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 02 4.2' (H000465-02)**

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	100 %	37.6-147								

**Sample ID: B - 03 4.25' (H000465-03)**

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: B - 04 4.2' (H000465-04)**

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1940	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: B - 05 4.25' (H000465-05)**

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2100	16.0	02/17/2020	ND	432	108	400	0.00		

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	02/14/2020	Sampling Date:	02/14/2020
Reported:	02/17/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	D2MLT	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B - 06 4.25' (H000465-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2260	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: B - 07 2.5' (H000465-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/17/2020	ND	432	108	400	0.00	

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/14/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 01 0-2' (H000465-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2020	ND	1.76	87.9	2.00	2.96		
Toluene*	<0.050	0.050	02/14/2020	ND	1.80	89.9	2.00	3.92		
Ethylbenzene*	<0.050	0.050	02/14/2020	ND	1.85	92.4	2.00	3.06		
Total Xylenes*	<0.150	0.150	02/14/2020	ND	5.36	89.4	6.00	3.00		
Total BTEx	<0.300	0.300	02/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	02/17/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2020	ND	209	105	200	0.101	
DRO >C10-C28*	<10.0	10.0	02/15/2020	ND	198	99.1	200	0.678	
EXT DRO >C28-C36	<10.0	10.0	02/15/2020	ND					

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/13/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 02 0-4' (H000465-09)**

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	02/17/2020	ND	432	108	400	0.00		

**Sample ID: W - 03 0-4' (H000465-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: W - 04 0-4' (H000465-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: W - 05 0-4' (H000465-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: W - 06 0-4' (H000465-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2020	ND	432	108	400	0.00	

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/14/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 07 0-4' (H000465-14)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	02/17/2020	ND	432	108	400	0.00	

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/14/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 08 0-2.5' (H000465-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2020	ND	1.76	87.9	2.00	2.96		
Toluene*	<0.050	0.050	02/14/2020	ND	1.80	89.9	2.00	3.92		
Ethylbenzene*	<0.050	0.050	02/14/2020	ND	1.85	92.4	2.00	3.06		
Total Xylenes*	<0.150	0.150	02/14/2020	ND	5.36	89.4	6.00	3.00		
Total BTEx	<0.300	0.300	02/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

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	02/17/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2020	ND	209	105	200	0.101	
DRO >C10-C28*	<10.0	10.0	02/15/2020	ND	198	99.1	200	0.678	
EXT DRO >C28-C36	<10.0	10.0	02/15/2020	ND					

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.7 % 37.6-147

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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/14/2020  
 Reported: 02/17/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/14/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 09 0-2.5' (H000465-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/17/2020	ND	432	108	400	0.00		

**Sample ID: W - 100 0-1.5' (H000465-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2020	ND	432	108	400	0.00	

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>R.T. Hick Consultants</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																										
Project Manager: <u>Andrew Parker</u>		P.O. #: <u>D2MLT</u>																												
Address: <u>on file</u>		Company:																												
City: State: Zip:		Attn: <u>email Andrew</u>																												
Phone #: Fax #:		Address:																												
Project #: Project Owner:		City:																												
Project Name: <u>Advance Energy</u>		State: Zip:																												
Project Location: <u>D2MLT</u>		Phone #: <u>970-570-9535</u>																												
Sampler Name: <u>Laura Parker</u>		Fax #:																												
FOR LAB USE ONLY																														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chloride	BTEX	TPH EXT																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME																
<u>H000465</u>																														
1	B-01 - 4.26t	✓	1			✓					✓		2/14/20	08:00	✓															
2	B-02 - 4.26t													08:45	✓	✓	✓													
3	B-03 4.25t													08:30	✓															
4	B-04 4.26t													08:45	✓															
5	B-05 4.25t													09:00	✓															
6	B-06 4.25t													09:15	✓															
7	B-07 2.56t												✓	09:30	✓															
8	W-01 0-26t													09:45	✓	✓	✓													
9	W-02 0-46t												2/13/20	10:00	✓															
10	W-03 0-46t	✓	✓			✓					✓		2/14/20	10:15	✓															

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Relinquished By: <u>Laura Parker</u>		Date: <u>2/14/2020</u>	Received By: <u>Laura Parker</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1:25</u>					All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		REMARKS:	
					<u>RFN</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>4.2</u>	Sample Condition		Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #97 Correction Factor + 0.4 °C	
			CHECKED BY: (Initials) <u>TO</u>		Observed Temp. °C Corrected Temp. °C	

FORM-006 R 3.0

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto: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: <u>R.T. Hicks Consultants</u>				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																															
Project Manager: <u>Andrew Parker</u>				P.O. #: <u>D2MLT</u>																																	
Address: <u>on file</u>				Company:																																	
City:		State:		Zip:																																	
Phone #:		Fax #:		Attn: <u>email Andrew</u>																																	
Project #:		Project Owner:		Address:																																	
Project Name: <u>Advance Energy</u>		City:		State:																																	
Project Location: <u>D2MLT</u>		Zip:		Phone #: <u>970-570-9535</u>																																	
Sampler Name: <u>Laura Parker</u>				Fax #:																																	
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING																							
				GROUNDWATER		WASTEWATER		SOIL				OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME											
<u>H006465</u>																																					
<u>11</u>		<u>W-04 0-4ft</u>		<u>5</u>		<u>1</u>																		<u>2/14/20</u>		<u>10:30</u>											
<u>12</u>		<u>W-05 0-4ft</u>																						<u>10:45</u>													
<u>13</u>		<u>W-06 0-4ft</u>																						<u>10:00</u>													
<u>14</u>		<u>W-07 0-4ft</u>																						<u>11:15</u>													
<u>15</u>		<u>W-08 0-2.5ft</u>																						<u>11:30</u>													
<u>16</u>		<u>W-09 0-2.5ft</u>																						<u>11:45</u>													
<u>17</u>		<u>W-100 0-1.5ft</u>																						<u>12:00</u>													

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Relinquished By: <u>Laura Parker</u>		Date: <u>2/14/2020</u>		Received By: <u>Laura Parker</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>15:25</u>				All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				<u>RPN</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>4.2</u>		Sample Condition		Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Observed Temp. °C	
				CHECKED BY: (Initials) <u>TO</u>		Thermometer ID #97	
						Correction Factor +0.4 °C	
						Corrected Temp. °C	

FORM-006 R 3.0

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---

February 20, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 02/19/20 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 08 4' (H000529-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/20/2020	ND	416	104	400	0.00	

**Sample ID: B - 09 4.2' (H000529-02)**

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	02/20/2020	ND	1.97	98.5	2.00	6.41	
Toluene*	<0.050	0.050	02/20/2020	ND	1.99	99.5	2.00	6.97	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.01	100	2.00	6.77	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.85	97.5	6.00	6.93	
Total BTX	<0.300	0.300	02/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/20/2020	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	02/20/2020	ND	200	99.9	200	0.654	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	215	107	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.3-144

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 09 4.2' (H000529-02)**

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	98.9 %	42.2-156								

**Sample ID: B - 10 3' (H000529-03)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/20/2020	ND	416	104	400	0.00		

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\*=Accredited Analyte

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 16 4.2' (H000529-04)**

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	02/20/2020	ND	1.97	98.5	2.00	6.41		
Toluene*	<0.050	0.050	02/20/2020	ND	1.99	99.5	2.00	6.97		
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.01	100	2.00	6.77		
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.85	97.5	6.00	6.93		
Total BTX	<0.300	0.300	02/20/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	02/20/2020	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	02/20/2020	ND	200	99.9	200	0.654	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	215	107	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 17 2' (H000529-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2020	ND	416	104	400	0.00		

**Sample ID: B - 18 3' (H000529-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/20/2020	ND	416	104	400	0.00	

**Sample ID: W - 10 0-4' (H000529-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/20/2020	ND	416	104	400	0.00		

**Sample ID: W - 11 0-4' (H000529-08)**

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	02/20/2020	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 12 0-4' (H000529-09)**

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	02/20/2020	ND	1.97	98.5	2.00	6.41	
Toluene*	<0.050	0.050	02/20/2020	ND	1.99	99.5	2.00	6.97	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.01	100	2.00	6.77	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.85	97.5	6.00	6.93	
Total BTX	<0.300	0.300	02/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/20/2020	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	02/20/2020	ND	200	99.9	200	0.654	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	215	107	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 101 0-3' (H000529-10)**

Chloride, SM4500Cl-B		mg / kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/20/2020	ND	416	104	400	0.00		

**Sample ID: W - 102 0-3' (H000529-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/20/2020	ND	416	104	400	0.00	

**Sample ID: W - 103 0-3' (H000529-12)**

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	02/20/2020	ND	416	104	400	0.00	

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 104 0-3' (H000529-13)**

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	02/20/2020	ND	1.97	98.5	2.00	6.41		
Toluene*	<0.050	0.050	02/20/2020	ND	1.99	99.5	2.00	6.97		
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.01	100	2.00	6.77		
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.85	97.5	6.00	6.93		
Total BTX	<0.300	0.300	02/20/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/20/2020	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	02/20/2020	ND	200	99.9	200	0.654	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	215	107	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.4 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/19/2020  
 Reported: 02/20/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 105 0-4' (H000529-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2020	ND	416	104	400	0.00		

**Sample ID: W - 106 0-2' (H000529-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/20/2020	ND	416	104	400	0.00	

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager






## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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Relinquished By:		Date:	Received By:		Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
SACOB S O E M		2-19-20			Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Time:			REMARKS:		
		1630	Received By:				
Delivered By: (Circle One)		Date:	CHECKED BY:				
Sampler - UPS - Bus - Other:		Time:	(Initials)				
2.3°C #113		Sample Condition	13.5				
		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
		Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					

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



[illegible]

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Relinquished By: SACarb SP1612		Date: 2-19-20	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 1630			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: [Signature]		Date:	Received By:		REMARKS: RUSH	
		Time:				
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: 2.30 #113			Cool Intact	(Initials)		
			<input type="checkbox"/> Yes <input type="checkbox"/> Yes	157		
			<input type="checkbox"/> No <input type="checkbox"/> No			

Released to Imaging: 8/23/2023 11:20:47 AM



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February 24, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 02/21/20 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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





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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - 07 4.5' (H000558-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/24/2020	ND	432	108	400	0.00	

**Sample ID: B - 09 3.5' (H000558-02)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTX	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/24/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.3-144

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	02/21/2020	Sampling Date:	02/21/2020
Reported:	02/24/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	D2MLT	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B - 09 3.5' (H000558-02)**

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	84.9 %	42.2-156							

**Sample ID: B - 11 3' (H000558-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/24/2020	ND	432	108	400	0.00	

**Sample ID: B - 12 4.2' (H000558-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	02/24/2020	ND	432	108	400	0.00	

**Sample ID: B - 19 4.2' (H000558-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	02/24/2020	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 13 0-1' (H000558-06)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTX	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/24/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 14 0-4' (H000558-07)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTX	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	02/24/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.5 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 15 0-4' (H000558-08)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358		
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169		
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568		
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/24/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 16 0-1' (H000558-09)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTX	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

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	02/24/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 17 0-1' (H000558-10)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEx	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	02/24/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 18 0-4' (H000558-11)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTX	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/24/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 19 0-2' (H000558-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/24/2020	ND	432	108	400	0.00		

**Sample ID: W - 20 0-2' (H000558-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/24/2020	ND	432	108	400	0.00		

**Sample ID: W - 21 0-3' (H000558-14)**

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	02/24/2020	ND	432	108	400	0.00		

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 22 0-1' (H000558-15)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTX	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

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	02/24/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 02/21/2020  
 Reported: 02/24/2020  
 Project Name: ADVANCE ENERGY  
 Project Number: D2MLT  
 Project Location: NOT GIVEN

Sampling Date: 02/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 23 0-2' (H000558-16)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2020	ND	1.86	93.2	2.00	0.358	
Toluene*	<0.050	0.050	02/22/2020	ND	1.87	93.4	2.00	0.169	
Ethylbenzene*	<0.050	0.050	02/22/2020	ND	1.87	93.6	2.00	0.568	
Total Xylenes*	<0.150	0.150	02/22/2020	ND	5.43	90.5	6.00	0.559	
Total BTEx	<0.300	0.300	02/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/24/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.8 % 42.2-156

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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	02/21/2020	Sampling Date:	02/21/2020
Reported:	02/24/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	D2MLT	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: W - 24 0-4' (H000558-17)**

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	02/24/2020	ND	416	104	400	0.00		

**Sample ID: W - 25 0-4' (H000558-18)**

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	02/24/2020	ND	416	104	400	0.00		

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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 "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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[illegible]

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





Released to Imaging: 8/23/2023 11:20:47 AM

Company Name: R.T. Hicks Consultants				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>															
Project Manager: Andrew Parker				P.O. #:				<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); padding: 5px;">CHLORIDE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); padding: 5px;">TPH (GRO+DRO+MRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); padding: 5px;">BENZENE, BTEX</div> <div style="flex-grow: 1; border-left: 1px solid black;"></div> </div>																							
Address: On-File				Company: R.T. Hicks																											
City:		State:		Zip:		Attn: Send to																									
Phone #:		Fax #:		Address: andrew@rthicks																											
Project #:		Project Owner:		City: consult.com																											
Project Name: Advance Energy				State: Zip:																											
Project Location: D2MLT				Phone #:																											
Sampler Name: Jacob Saenz				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.			(GRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING																		
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															
H000558																															
	11 W-18	0-4FT	C	1				X				X			2/21/20	11am	X	X	X												
	12 W-19	0-2FT														11:30am															
	13 W-20	0-2FT														11:45am															
	14 W-21	0-3FT														12pm															
	15 W-22	0-1FT														12:15pm		X	X												
	16 W-23	0-2FT														12:30pm		X	X												
	17 W-24	0-4FT														1pm															
	18 W-25	0-4FT														1:30pm															

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Relinquished By: JACOB SAENZ		Date: 2-21-20	Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
		Time: 1435			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date:	Received By:		REMARKS:  <div style="font-size: 2em; font-weight: bold; margin-top: 20px;">Rush!!</div>	
		Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.4e #113			Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) ye	

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April 02, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 04/01/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: B - 200 0.5' (H000975-01)**

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	04/02/2020	ND	432	108	400	3.77	

**Sample ID: B - 201 1' (H000975-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/02/2020	ND	432	108	400	3.77	

**Sample ID: B - 202 0.5' (H000975-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/02/2020	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: B - 203 1.5' (H000975-04)**

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	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTX	<0.300	0.300	04/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/02/2020	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	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: B - 204 4.2' (H000975-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	04/02/2020	ND	432	108	400	3.77		

**Sample ID: B - 205 4.2' (H000975-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/02/2020	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: B - 206 4.2' (H000975-07)**

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	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTX	<0.300	0.300	04/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	04/02/2020	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	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.6 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 200 0-0.5' (H000975-08)**

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	04/02/2020	ND	1.86	93.2	2.00	9.37		
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75		
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95		
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5		
Total BTX	<0.300	0.300	04/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	04/02/2020	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	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 201 0-1.5' (H000975-09)**

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	04/02/2020	ND	1.86	93.2	2.00	9.37		
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75		
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95		
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5		
Total BTEX	<0.300	0.300	04/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/02/2020	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	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 202 1-4' (H000975-10)**

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	04/02/2020	ND	1.86	93.2	2.00	9.37		
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75		
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95		
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5		
Total BTEx	<0.300	0.300	04/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/02/2020	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	04/02/2020	ND	185	92.7	200	0.00809	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	178	89.1	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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---

April 02, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 04/01/20 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 203 0-4' (H000977-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/02/2020	ND	416	104	400	0.00	

**Sample ID: W - 204 0-4' (H000977-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2020	ND	1.86	93.2	2.00	9.37	
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75	
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95	
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5	
Total BTEX	<0.300	0.300	04/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/02/2020	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	04/02/2020	ND	167	83.7	200	15.3	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	163	81.7	200	12.0	
EXT DRO >C28-C36	10.6	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-144

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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 204 0-4' (H000977-02)**

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	96.5 %	42.2-156								

**Sample ID: W - 205 0-4' (H000977-03)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/02/2020	ND	416	104	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 206 0-4' (H000977-04)**

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	04/02/2020	ND	1.86	93.2	2.00	9.37		
Toluene*	<0.050	0.050	04/02/2020	ND	1.85	92.7	2.00	9.75		
Ethylbenzene*	<0.050	0.050	04/02/2020	ND	1.86	92.8	2.00	9.95		
Total Xylenes*	<0.150	0.150	04/02/2020	ND	5.34	89.0	6.00	10.5		
Total BTEx	<0.300	0.300	04/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/02/2020	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	04/02/2020	ND	167	83.7	200	15.3	
DRO >C10-C28*	<10.0	10.0	04/02/2020	ND	163	81.7	200	12.0	
EXT DRO >C28-C36	10.8	10.0	04/02/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.2 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/01/2020	Sampling Date:	04/01/2020
Reported:	04/02/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: W - 207 0-4' (H000977-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/02/2020	ND	416	104	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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\*=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



**CARDINAL**  
Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of, 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: <i>SALON SPLENZ</i> Date: <i>4-1-20</i> Time: <i>1640</i>		Received By: <i>[Signature]</i> Date: Time: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: <div style="text-align: center; font-size: 2em; color: blue;">RUSH!</div>	
Relinquished By: <i>[Signature]</i> Date: Time: 		Received By: Date: Time: 			
Delivered By: (Circle One) <i>4.92</i> Sampler - UPS - Bus - Other: <div style="text-align: center; font-size: 1.5em; color: blue;">#113</div>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>1/5</i>	

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



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

---

April 03, 2020

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ADVANCE ENERGY

Enclosed are the results of analyses for samples received by the laboratory on 04/02/20 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/02/2020	Sampling Date:	04/02/2020
Reported:	04/03/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: HA - 03 0-4' (H000990-01)**

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	04/03/2020	ND	2.18	109	2.00	5.62		
Toluene*	<0.050	0.050	04/03/2020	ND	2.18	109	2.00	5.70		
Ethylbenzene*	<0.050	0.050	04/03/2020	ND	2.19	109	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/03/2020	ND	6.32	105	6.00	6.02		
Total BTEX	<0.300	0.300	04/03/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/03/2020	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	04/03/2020	ND	187	93.5	200	1.49	
DRO >C10-C28*	<10.0	10.0	04/03/2020	ND	182	90.8	200	0.355	
EXT DRO >C28-C36	<10.0	10.0	04/03/2020	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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:**

R T HICKS CONSULTANTS  
 ANDREW PARKER  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	04/02/2020	Sampling Date:	04/02/2020
Reported:	04/03/2020	Sampling Type:	Soil
Project Name:	ADVANCE ENERGY	Sampling Condition:	Cool & Intact
Project Number:	DAGGER LAKE TO MERCHANT LINE TEST	Sample Received By:	Kelly Jacobson
Project Location:	NOT GIVEN		

**Sample ID: HA - 04 0-4' (H000990-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/03/2020	ND	400	100	400	3.92		

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: R.T. Hicks Consultants				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Andrew Parker				P.O. #: <u>DLTMLT</u>												<div style="display: flex; flex-direction: column; align-items: center;"> <div>CHLORIDE</div> <div>TPH (GRO+DRO+MRO)</div> <div>BENZENE, BTEX</div> </div>											
Address: On-File				Company: R.T. Hicks																							
City: State: Zip:				Attn: Send to																							
Phone #: Fax #:				Address: andrew@rthicks																							
Project #: Project Owner:				City: consult.com																							
Project Name: <u>Advance Energy</u>				State: Zip:																							
Project Location: <u>Paggar Lake to Merchant Line Test</u>				Phone #:																							
Sampler Name: Jacob Saenz				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX				PRESERV.		SAMPLING															
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :				ACID/BASE: ICE / COOL OTHER :		DATE TIME															
<u>H000990</u>																											
<u>1 HA-03</u>		<u>0-4FT</u>		<u>C 1</u>		<u>X</u>				<u>X</u>		<u>4/2/20 2:10</u>		<u>X</u> <u>X</u> <u>X</u>													
<u>2 HA-04</u>		<u>0-4FT</u>		<u>C 1</u>		<u>X</u>				<u>X</u>		<u>4/2/20 2:30pm</u>		<u>X</u>													

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

Relinquished By: <u>JACOB SAENZ</u>		Date: <u>4-2-20</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>1635</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <u>[Signature]</u>		Date:		Received By:		REMARKS: <u>Rush</u>			
		Time:							
Delivered By: (Circle One) <u>4.00</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>					
Sampler - UPS - Bus - Other: <u>#113</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

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



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

---

May 06, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: 01082020-0130-PRODOPS

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 16:00.

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](http://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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 02 0 - 4 FT (H221842-01)**

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	05/04/2022	ND	2.13	107	2.00	5.76	
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43	
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26	
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50	
Total BTEX	<0.300	0.300	05/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	05/05/2022	ND	432	108	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	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 143 % 66.9-136

Surrogate: 1-Chlorooctadecane 146 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 03 0 - 4 FT (H221842-02)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/05/2022	ND	432	108	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	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 162 % 66.9-136

Surrogate: 1-Chlorooctadecane 162 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 04N 0 - 4 FT (H221842-03)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEx	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	432	108	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	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 149 % 66.9-136

Surrogate: 1-Chlorooctadecane 148 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 04S 0 - 4 FT (H221842-04)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2022	ND	432	108	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	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 142 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 05N 0 - 4 FT (H221842-05)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	05/05/2022	ND	432	108	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	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 138 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 05S 0 - 4 FT (H221842-06)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	96.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 136 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 06 0 - 4 FT (H221842-07)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 135 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 07N 0 - 4 FT (H221842-08)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 07S 0 - 4 FT (H221842-09)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2022	ND	432	108	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	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 148 % 66.9-136

Surrogate: 1-Chlorooctadecane 152 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 09 0 - 2.5 FT (H221842-10)**

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	05/04/2022	ND	2.13	107	2.00	5.76	
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43	
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26	
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50	
Total BTEx	<0.300	0.300	05/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 10 0 - 4 FT (H221842-11)**

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	05/04/2022	ND	2.13	107	2.00	5.76	
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43	
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26	
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50	
Total BTEX	<0.300	0.300	05/04/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	193	96.3	200	8.05	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	192	96.1	200	0.914	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 135 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 11N 0 - 4 FT (H221842-12)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/05/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 11S 0 - 4 FT (H221842-13)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 19 0 - 2 FT (H221842-14)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 20 0 - 2 FT (H221842-15)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 21 0 - 3 FT (H221842-16)**

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76	
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43	
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26	
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50	
Total BTEX	<0.300	0.300	05/04/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/05/2022	ND	416	104	400	3.77	

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	05/04/2022	ND	195	97.4	200	5.76		
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66		
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND						

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 148 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 24 0 - 4 FT (H221842-17)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 25 0 - 4 FT (H221842-18)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEx	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 100 0 - 1.5 FT (H221842-19)**

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	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEx	<0.300	0.300	05/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 101 0 - 3 FT (H221842-20)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	5.76		
Toluene*	<0.050	0.050	05/04/2022	ND	2.13	107	2.00	6.43		
Ethylbenzene*	<0.050	0.050	05/04/2022	ND	2.04	102	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/04/2022	ND	6.35	106	6.00	6.50		
Total BTEX	<0.300	0.300	05/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	05/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 102 0 - 3 FT (H221842-21)**

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	05/05/2022	ND	2.20	110	2.00	8.74	
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47	
Total BTX	<0.300	0.300	05/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/05/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 103 0 - 3 FT (H221842-22)**

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	05/05/2022	ND	2.20	110	2.00	8.74	
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47	
Total BTEx	<0.300	0.300	05/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 105 0 - 4 FT (H221842-23)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2022	ND	2.20	110	2.00	8.74		
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47		
Total BTEX	<0.300	0.300	05/05/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/04/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/04/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 106 0 - 2 FT (H221842-24)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.20	110	2.00	8.74	
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47	
Total BTEX	<0.300	0.300	05/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 203 0 - 4 FT (H221842-25)**

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	05/05/2022	ND	2.20	110	2.00	8.74	
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47	
Total BTEX	<0.300	0.300	05/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 205 0 - 4 FT (H221842-26)**

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	05/05/2022	ND	2.20	110	2.00	8.74		
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47		
Total BTEX	<0.300	0.300	05/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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\*=Accredited Analyte

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Mike Snyder For 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:	05/03/2022	Sampling Date:	04/21/2022
Reported:	05/06/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	[none]	Sample Received By:	Tamara Oldaker
Project Location:			

**Sample ID: W - 207 0 - 4 FT (H221842-27)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2022	ND	2.20	110	2.00	8.74		
Toluene*	<0.050	0.050	05/05/2022	ND	2.19	109	2.00	8.94		
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.09	105	2.00	8.86		
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.51	108	6.00	8.47		
Total BTEX	<0.300	0.300	05/05/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2022	ND	195	97.4	200	5.76	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	195	97.4	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



---

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

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

---

Mike Snyder For 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: 01082020-0130-Prodops		Project Location: Dagger Lake to Merchant Line Test		Sampler Name: Jacob Saenz		BILL TO		ANALYSIS REQUEST									
P.O. #: 01082020-0130-Prodops		Company: AEP		Attn: Send to		Address: aparker@		City: ameredev.com		State:		Zip:		Phone #:		Fax #:																					
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX																				
	H221842	W-02	0-4 FT	1		X					X		4/21/22	8:00 AM	X	X	X																				
	1	W-03	0-4 FT											8:10 AM																							
	2	W-04N	0-4 FT											8:20 AM																							
	3	W-04S	0-4 FT											8:30 AM																							
	4	W-05N	0-4 FT											8:40 AM																							
	5	W-05S	0-4 FT											8:50 AM																							
	6	W-06	0-4 FT											9:00 AM																							
	7	W-07N	0-4 FT											9:10 AM																							
	8	W-07S	0-4 FT											9:20 AM																							
	9	W-08	0-2.5 FT											9:30 AM																							
	10																																				

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Relinquished By: 3 AEOB SAENZ	Date: 5-3-22	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) 4.12 C-0.5e	Time: 1:00	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS: p.1 Rush added 5/4/22 TO	
Sampler - UPS - Bus - Other: 3.6e #13	Time:	Checked By: (Initials) TO		

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





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																																																																																																																																																																																																											
Project Manager: Andrew Parker		P.O. #: 01082020-0130-Prodops		<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>TPH (GRO+DRO+MRO)</div> <div>BENZENE, BTEX</div> </div>																																																																																																																																																																																																																											
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<table border="1"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th rowspan="2">G/RAB OR (C)COMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">CHLORIDE</th> <th rowspan="2">TPH (GRO+DRO+MRO)</th> <th rowspan="2">BENZENE, BTEX</th> </tr> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER:</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>H221842</td> <td>W-10 Q-4 FT</td> <td>C</td> <td>1</td> <td></td> <td></td> <td>x</td> <td></td> <td></td> <td></td> <td></td> <td>x</td> <td>4/31/22</td> <td>9:40am</td> <td>x</td> <td>x</td> <td>x</td> <td></td> </tr> <tr> <td>12</td> <td>W-11N 0-4 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9:50am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>W-11S 0-4 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:00am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>W-19 0-2 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:10am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>W-20 0-2 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:20am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>W-21 0-3 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:30am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>W-24 0-4 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:40am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>W-25 0-4 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:50am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>W-100 0-1.5 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11:00am</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>W-101 0-3 FT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11:10am</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>														FOR LAB USE ONLY		G/RAB OR (C)COMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX	Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	H221842	W-10 Q-4 FT	C	1			x					x	4/31/22	9:40am	x	x	x		12	W-11N 0-4 FT												9:50am					13	W-11S 0-4 FT												10:00am					14	W-19 0-2 FT												10:10am					15	W-20 0-2 FT												10:20am					16	W-21 0-3 FT												10:30am					17	W-24 0-4 FT												10:40am					18	W-25 0-4 FT												10:50am					19	W-100 0-1.5 FT												11:00am					20	W-101 0-3 FT												11:10am				
FOR LAB USE ONLY		G/RAB OR (C)COMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		CHLORIDE	TPH (GRO+DRO+MRO)			BENZENE, BTEX																																																																																																																																																																																																													
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Relinquished By: SAENZ SAENZ	Date: 5-3-22	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) 4.1°C C-0.5°C	Time: 1600	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: p. 2 Push added 5/4/22	
Sampler - UPS - Bus - Other: 3.6°C #13	Time:	CHECKED BY: (Initials) TO		

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
Project Manager: Andrew Parker		P.O. #: 01082020-0130-Prodops		<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>TPH (GRO+DRO+MRO)</div> <div>BENZENE, BTEX</div> </div>																					
Address: On-File		Company: AEP																							
City:	State:	Zip:	Attn: Send to																						
Phone #:	Fax #:	Address: aparker@																							
Project #:	Project Owner:	City: ameredev.com																							
Project Name: 01082020-0130-Prodops	State:		Zip:																						
Project Location: Dagger Lake to Merchant Line Test	Phone #:																								
Sampler Name: Jacob Saenz	Fax #:																								
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (COMP.)	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
H221842																									
21	W-102 0-3 Ft	✓	1			x					x		4/21/22	11:20 am	x	x	x								
22	W-103 0-3 Ft	✓	1											11:30 am											
23	W-105 0-4 Ft	✓	1											11:40 am											
24	W-106 0-2 Ft	✓	1											11:50 am											
25	W-203 0-4 Ft	✓	1											12 pm											
26	W-205 0-4 Ft	✓	1											12:40 pm											
27	W-207 0-4 Ft	✓	1											12:50 pm											

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Relinquished By: <i>Jacob Saenz</i>	Date: 5-3-22	Received By: <i>Tamara R. [Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1600			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>P.3</i>	
Time:			<i>Push added 5/4/22</i>	
Delivered By: (Circle One) <i>4.1c C-0.5c</i>	Sample Condition	CHECKED BY: (Initials) <i>Y.O.</i>		
Sampler - UPS - Bus - Other: <i>3.6c #113</i>	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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



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

---

May 10, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: 01082020-0130-PRODOPS

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 16:00.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 01 4.7'	H221843-01	Soil	21-Apr-22 12:30	03-May-22 16:00
B - 03N 4.7'	H221843-02	Soil	21-Apr-22 12:40	03-May-22 16:00
B - 03S 4.7'	H221843-03	Soil	21-Apr-22 12:50	03-May-22 16:00
B - 04N 4.7'	H221843-04	Soil	21-Apr-22 01:00	03-May-22 16:00
B - 04S 4.7'	H221843-05	Soil	21-Apr-22 01:10	03-May-22 16:00
B - 05 4.7'	H221843-06	Soil	21-Apr-22 01:20	03-May-22 16:00
B - 06 4.7'	H221843-07	Soil	21-Apr-22 01:30	03-May-22 16:00
B - 07N 3'	H221843-08	Soil	21-Apr-22 01:40	03-May-22 16:00
B - 07S 3'	H221843-09	Soil	21-Apr-22 01:50	03-May-22 16:00
B - 08N 4.5'	H221843-10	Soil	21-Apr-22 02:00	03-May-22 16:00
B - 08S 4.5'	H221843-11	Soil	22-Apr-22 09:00	03-May-22 16:00
B - 09E 4.7'	H221843-12	Soil	22-Apr-22 09:15	03-May-22 16:00
B - 09W 4.7'	H221843-13	Soil	22-Apr-22 09:25	03-May-22 16:00
B - 10N 3.5'	H221843-14	Soil	22-Apr-22 09:35	03-May-22 16:00
B - 10S 3.5'	H221843-15	Soil	22-Apr-22 09:45	03-May-22 16:00
B - 11 3.5'	H221843-16	Soil	22-Apr-22 10:00	03-May-22 16:00
B - 12N 4.7'	H221843-17	Soil	22-Apr-22 10:10	03-May-22 16:00
B - 12S 4.7'	H221843-18	Soil	22-Apr-22 10:25	03-May-22 16:00
B - 13C 4.7'	H221843-19	Soil	22-Apr-22 10:35	03-May-22 16:00
B - 13E 5'	H221843-20	Soil	22-Apr-22 10:45	03-May-22 16:00
B - 13W 5'	H221843-21	Soil	22-Apr-22 11:00	03-May-22 16:00
B - 14E 2.5'	H221843-22	Soil	22-Apr-22 11:15	03-May-22 16:00
B - 14W 2.5'	H221843-23	Soil	22-Apr-22 11:25	03-May-22 16:00
B - 16N 4.7'	H221843-24	Soil	22-Apr-22 11:35	03-May-22 16:00
B - 16S 4.7'	H221843-25	Soil	22-Apr-22 11:45	03-May-22 16:00
B - 17E 2.5'	H221843-26	Soil	22-Apr-22 12:00	03-May-22 16:00
B - 17W 2.5'	H221843-27	Soil	22-Apr-22 12:10	03-May-22 16:00

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

B - 18E 3.5'	H221843-28	Soil	22-Apr-22 12:15	03-May-22 16:00
B - 18W 3.5'	H221843-29	Soil	22-Apr-22 12:30	03-May-22 16:00
B - 19 4.7'	H221843-30	Soil	22-Apr-22 12:45	03-May-22 16:00
B - 20NE 1.5'	H221843-31	Soil	22-Apr-22 13:00	03-May-22 16:00
B - 20NW 1.5'	H221843-32	Soil	22-Apr-22 13:15	03-May-22 16:00
B - 20SE 1.5'	H221843-33	Soil	22-Apr-22 13:30	03-May-22 16:00
B - 20SW 1.5'	H221843-34	Soil	22-Apr-22 13:45	03-May-22 16:00
B - 20W 1.5'	H221843-35	Soil	25-Apr-22 10:00	03-May-22 16:00
B - 21C 4'	H221843-36	Soil	25-Apr-22 10:10	03-May-22 16:00
B - 21N 4'	H221843-37	Soil	25-Apr-22 10:25	03-May-22 16:00
B - 21S 4'	H221843-38	Soil	25-Apr-22 10:35	03-May-22 16:00
B - 22C 1.5'	H221843-39	Soil	25-Apr-22 10:45	03-May-22 16:00
B - 22E 1.5'	H221843-40	Soil	25-Apr-22 11:00	03-May-22 16:00
B - 22W 1.5'	H221843-41	Soil	25-Apr-22 11:15	03-May-22 16:00
B - 200 1'	H221843-42	Soil	25-Apr-22 11:30	03-May-22 16:00
B - 201 1.5'	H221843-43	Soil	25-Apr-22 11:45	03-May-22 16:00
B - 202 1'	H221843-44	Soil	25-Apr-22 12:00	03-May-22 16:00
B - 204 4.7'	H221843-45	Soil	25-Apr-22 12:30	03-May-22 16:00
B - 205 4.7'	H221843-46	Soil	25-Apr-22 12:30	03-May-22 16:00

05/10/22 - Client clarified the sample IDs. This is the revised report with the correct sample IDs. This report will replace the one sent on 05/06/22.

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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 01 4.7'**  
**H221843-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1680		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140 2050440 MS/ 05-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane 118 % 66.9-136 2050408 MS 05-May-22 8015B

Surrogate: 1-Chlorooctadecane 122 % 59.5-142 2050408 MS 05-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 03N 4.7'**  
**H221843-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1170		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			120 %	66.9-136		2050408	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			124 %	59.5-142		2050408	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 03S 4.7'**  
**H221843-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1230		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			129 %	66.9-136		2050408	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			134 %	59.5-142		2050408	MS	05-May-22	8015B	
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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 04N 4.7'**  
**H221843-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	2200		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2050440 MS/ 05-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050408	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane 122 % 66.9-136 2050408 MS 05-May-22 8015B

Surrogate: 1-Chlorooctadecane 127 % 59.5-142 2050408 MS 05-May-22 8015B

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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 04S 4.7'**  
**H221843-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1920</b>		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			109 %	66.9-136		2050443	MS	05-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 05 4.7'**  
**H221843-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	2160		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			115 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	59.5-142		2050443	MS	05-May-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 06 4.7'**  
**H221843-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2800</b>		16.0	mg/kg	4	2050517	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			119 %	66.9-136		2050443	MS	05-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			126 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 07N 3'**  
**H221843-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			119 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			126 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 07S 3'**  
**H221843-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			95.9 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			99.6 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 08N 4.5'**  
**H221843-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050440	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050440	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2050440	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			112 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 08S 4.5'**  
**H221843-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			116 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			124 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 09E 4.7'**  
**H221843-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			125 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			134 %	59.5-142		2050443	MS	05-May-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 09W 4.7'**  
**H221843-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			116 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	59.5-142		2050443	MS	05-May-22	8015B	
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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 10N 3.5'**  
**H221843-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2050501 MS/ 05-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane 126 % 66.9-136 2050443 MS 05-May-22 8015B

Surrogate: 1-Chlorooctadecane 134 % 59.5-142 2050443 MS 05-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 10S 3.5'**  
**H221843-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			123 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			132 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 11 3.5'**  
**H221843-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			124 %	66.9-136		2050443	MS	05-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			134 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 12N 4.7'**  
**H221843-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			115 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 12S 4.7'**  
**H221843-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			129 %	66.9-136		2050443	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			138 %	59.5-142		2050443	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 13C 4.7'**  
**H221843-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane			77.8 %	66.9-136		2050443	MS	06-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			83.5 %	59.5-142		2050443	MS	06-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 13E 5'**  
**H221843-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1100</b>		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		101 %		69.9-140	2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050443	MS	06-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>		114 %		66.9-136	2050443	MS	06-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		125 %		59.5-142	2050443	MS	06-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 13W 5'**  
**H221843-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2050501 MS/ 05-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane 118 % 66.9-136 2050443 MS 06-May-22 8015B

Surrogate: 1-Chlorooctadecane 126 % 59.5-142 2050443 MS 06-May-22 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 14E 2.5'**  
**H221843-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane			129 %	66.9-136		2050443	MS	06-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			142 %	59.5-142		2050443	MS	06-May-22	8015B	
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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 14W 2.5'**  
**H221843-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane			119 %	66.9-136		2050443	MS	06-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			130 %	59.5-142		2050443	MS	06-May-22	8015B	
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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 16N 4.7'**  
**H221843-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050443	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane			124 %	66.9-136		2050443	MS	06-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			135 %	59.5-142		2050443	MS	06-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 16S 4.7'**  
**H221843-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			120 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	59.5-142		2050444	MS	05-May-22	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 17E 2.5'**  
**H221843-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			118 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 17W 2.5'**  
**H221843-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2050518	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	69.9-140	2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane	141 %	66.9-136	2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane	140 %	59.5-142	2050444	MS	05-May-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 18E 3.5'**  
**H221843-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			126 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			129 %	59.5-142		2050444	MS	05-May-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 18W 3.5'**  
**H221843-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			110 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	59.5-142		2050444	MS	05-May-22	8015B	
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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 19 4.7'**  
**H221843-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050501	MS/	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050501	MS/	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050501	MS/	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			111 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 20NE 1.5'**  
**H221843-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2050502 MS\ 05-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane 107 % 66.9-136 2050444 MS 05-May-22 8015B

Surrogate: 1-Chlorooctadecane 108 % 59.5-142 2050444 MS 05-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 20NW 1.5'**  
**H221843-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			111 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 20SE 1.5'****H221843-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	2050502	MS\	05-May-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B

Surrogate: 1-Chlorooctane	112 %	66.9-136	2050444	MS	05-May-22	8015B
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Surrogate: 1-Chlorooctadecane	112 %	59.5-142	2050444	MS	05-May-22	8015B
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 20SW 1.5'**  
**H221843-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>416</b>		16.0	mg/kg	4	2050519	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %	66.9-136		2050444	MS	05-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %	59.5-142		2050444	MS	05-May-22	8015B	
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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 20W 1.5'****H221843-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	69.9-140	2050502	MS\	05-May-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B

Surrogate: 1-Chlorooctane	78.0 %	66.9-136	2050444	MS	05-May-22	8015B
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Surrogate: 1-Chlorooctadecane	77.9 %	59.5-142	2050444	MS	05-May-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 21C 4'**  
**H221843-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.9 %	66.9-136		2050444	MS	05-May-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.9 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 21N 4'**  
**H221843-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			79.6 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.3 %	59.5-142		2050444	MS	05-May-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 21S 4'**  
**H221843-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			77.3 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			78.1 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 22C 1.5'**  
**H221843-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			80.1 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.8 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 22E 1.5'**  
**H221843-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	69.9-140	2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane	84.3 %	66.9-136	2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane	83.5 %	59.5-142	2050444	MS	05-May-22	8015B	
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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 22W 1.5'****H221843-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	2050502	MS\	05-May-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050444	MS	05-May-22	8015B

Surrogate: 1-Chlorooctane	82.5 %	66.9-136	2050444	MS	05-May-22	8015B
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Surrogate: 1-Chlorooctadecane	82.2 %	59.5-142	2050444	MS	05-May-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 200 1'**  
**H221843-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			78.9 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.1 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 201 1.5'**  
**H221843-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %		69.9-140			2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane	78.3 %		66.9-136			2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane	79.3 %		59.5-142			2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 202 1'**  
**H221843-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2050526	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050444	MS	05-May-22	8015B	

Surrogate: 1-Chlorooctane			78.0 %	66.9-136		2050444	MS	05-May-22	8015B	
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Surrogate: 1-Chlorooctadecane			77.9 %	59.5-142		2050444	MS	05-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 204 4.7'**  
**H221843-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1120</b>		16.0	mg/kg	4	2050527	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2050502 MS\ 05-May-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2050418	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2050418	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2050418	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane 86.0 % 66.9-136 2050418 MS 06-May-22 8015B

Surrogate: 1-Chlorooctadecane 88.3 % 59.5-142 2050418 MS 06-May-22 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**B - 205 4.7'**  
**H221843-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1470</b>		16.0	mg/kg	4	2050527	AC	05-May-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2050502	MS\	05-May-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2050502	MS\	05-May-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	2050502	MS\	05-May-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2050418	MS	06-May-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2050418	MS	06-May-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2050418	MS	06-May-22	8015B	

Surrogate: 1-Chlorooctane	95.0 %	66.9-136	2050418	MS	06-May-22	8015B	
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Surrogate: 1-Chlorooctadecane	98.3 %	59.5-142	2050418	MS	06-May-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050517 - 1:4 DI Water****Blank (2050517-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	ND	16.0	mg/kg
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**LCS (2050517-BS1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (2050517-BSD1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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**Batch 2050518 - 1:4 DI Water****Blank (2050518-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	ND	16.0	mg/kg
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**LCS (2050518-BS1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (2050518-BSD1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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**Batch 2050519 - 1:4 DI Water****Blank (2050519-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	ND	16.0	mg/kg
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**LCS (2050519-BS1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	432	16.0	mg/kg	400	108	80-120
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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050519 - 1:4 DI Water****LCS Dup (2050519-BSD1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	
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**Batch 2050526 - 1:4 DI Water****Blank (2050526-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	ND	16.0	mg/kg						
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**LCS (2050526-BS1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	448	16.0	mg/kg	400	112	80-120			
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**LCS Dup (2050526-BSD1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	448	16.0	mg/kg	400	112	80-120	0.00	20	
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**Batch 2050527 - 1:4 DI Water****Blank (2050527-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	ND	16.0	mg/kg						
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**LCS (2050527-BS1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	432	16.0	mg/kg	400	108	80-120			
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**LCS Dup (2050527-BSD1)**

Prepared &amp; Analyzed: 05-May-22

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050440 - Volatiles****Blank (2050440-BLK1)**

Prepared: 04-May-22 Analyzed: 05-May-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			

**LCS (2050440-BS1)**

Prepared &amp; Analyzed: 04-May-22

Benzene	2.20	0.050	mg/kg	2.00		110	83.4-122			
Toluene	2.19	0.050	mg/kg	2.00		109	84.2-126			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	84.2-121			
m,p-Xylene	4.40	0.100	mg/kg	4.00		110	89.9-126			
o-Xylene	2.11	0.050	mg/kg	2.00		105	84.3-123			
Total Xylenes	6.51	0.150	mg/kg	6.00		108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	69.9-140			

**LCS Dup (2050440-BSD1)**

Prepared: 04-May-22 Analyzed: 05-May-22

Benzene	2.01	0.050	mg/kg	2.00		101	83.4-122	8.74	12.6	
Toluene	2.00	0.050	mg/kg	2.00		99.9	84.2-126	8.94	13.3	
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	84.2-121	8.86	13.9	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89.9-126	8.55	13.6	
o-Xylene	1.94	0.050	mg/kg	2.00		97.0	84.3-123	8.31	14.1	
Total Xylenes	5.98	0.150	mg/kg	6.00		99.6	89.1-124	8.47	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	69.9-140			

**Batch 2050501 - Volatiles****Blank (2050501-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050501 - Volatiles****Blank (2050501-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	69.9-140			

<b>LCS (2050501-BS1)</b>										
Prepared & Analyzed: 05-May-22										
Benzene	2.09	0.050	mg/kg	2.00		105	83.4-122			
Toluene	2.07	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	84.2-121			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	2.03	0.050	mg/kg	2.00		102	84.3-123			
Total Xylenes	6.22	0.150	mg/kg	6.00		104	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.7	69.9-140			

**LCS Dup (2050501-BS1)**

Prepared &amp; Analyzed: 05-May-22

Benzene	2.07	0.050	mg/kg	2.00		104	83.4-122	1.04	12.6	
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126	0.417	13.3	
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	84.2-121	0.508	13.9	
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	89.9-126	0.215	13.6	
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123	1.08	14.1	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	89.1-124	0.499	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		98.9	69.9-140			

**Batch 2050502 - Volatiles****Blank (2050502-BLK1)**

Prepared &amp; Analyzed: 05-May-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	69.9-140			

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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050502 - Volatiles****LCS (2050502-BS1)**

Prepared &amp; Analyzed: 05-May-22

Benzene	2.12	0.050	mg/kg	2.00		106	83.4-122			
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121			
m,p-Xylene	4.34	0.100	mg/kg	4.00		109	89.9-126			
o-Xylene	2.07	0.050	mg/kg	2.00		103	84.3-123			
Total Xylenes	6.41	0.150	mg/kg	6.00		107	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.9	69.9-140			

**LCS Dup (2050502-BS1)**

Prepared &amp; Analyzed: 05-May-22

Benzene	2.18	0.050	mg/kg	2.00		109	83.4-122	2.81	12.6	
Toluene	2.14	0.050	mg/kg	2.00		107	84.2-126	2.00	13.3	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	84.2-121	3.25	13.9	
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	89.9-126	3.05	13.6	
o-Xylene	2.11	0.050	mg/kg	2.00		105	84.3-123	1.92	14.1	
Total Xylenes	6.59	0.150	mg/kg	6.00		110	89.1-124	2.68	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		99.9	69.9-140			

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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINE  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050408 - General Prep - Organics****Blank (2050408-BLK1)**

Prepared &amp; Analyzed: 04-May-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	66.9-136			
Surrogate: 1-Chlorooctadecane	61.0		mg/kg	50.0		122	59.5-142			

**LCS (2050408-BS1)**

Prepared &amp; Analyzed: 04-May-22

GRO C6-C10	195	10.0	mg/kg	200		97.4	78.5-128			
DRO >C10-C28	195	10.0	mg/kg	200		97.4	75.8-135			
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	81.5-127			
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0		123	66.9-136			
Surrogate: 1-Chlorooctadecane	65.0		mg/kg	50.0		130	59.5-142			

**LCS Dup (2050408-BS1)**

Prepared &amp; Analyzed: 04-May-22

GRO C6-C10	184	10.0	mg/kg	200		91.9	78.5-128	5.76	21.4	
DRO >C10-C28	186	10.0	mg/kg	200		93.0	75.8-135	4.66	17.9	
Total TPH C6-C28	370	10.0	mg/kg	400		92.5	81.5-127	5.21	17.6	
Surrogate: 1-Chlorooctane	65.1		mg/kg	50.0		130	66.9-136			
Surrogate: 1-Chlorooctadecane	65.5		mg/kg	50.0		131	59.5-142			

**Batch 2050418 - General Prep - Organics****Blank (2050418-BLK1)**

Prepared: 04-May-22 Analyzed: 06-May-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	66.9-136			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.2	59.5-142			

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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  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINI  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050418 - General Prep - Organics****LCS (2050418-BS1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	214	10.0	mg/kg	200		107	78.5-128		
DRO >C10-C28	205	10.0	mg/kg	200		103	75.8-135		
Total TPH C6-C28	419	10.0	mg/kg	400		105	81.5-127		
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	66.9-136		
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	59.5-142		

**LCS Dup (2050418-BS1)**

Prepared: 04-May-22 Analyzed: 06-May-22

GRO C6-C10	216	10.0	mg/kg	200		108	78.5-128	0.902	21.4
DRO >C10-C28	206	10.0	mg/kg	200		103	75.8-135	0.239	17.9
Total TPH C6-C28	422	10.0	mg/kg	400		105	81.5-127	0.578	17.6
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	66.9-136		
Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	59.5-142		

**Batch 2050443 - General Prep - Organics****Blank (2050443-BLK1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.8	66.9-136		
Surrogate: 1-Chlorooctadecane	43.0		mg/kg	50.0		86.1	59.5-142		

**LCS (2050443-BS1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	196	10.0	mg/kg	200		98.1	78.5-128		
DRO >C10-C28	209	10.0	mg/kg	200		105	75.8-135		
Total TPH C6-C28	405	10.0	mg/kg	400		101	81.5-127		
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.3	66.9-136		
Surrogate: 1-Chlorooctadecane	46.5		mg/kg	50.0		92.9	59.5-142		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ADVANCE ENERGY PARTNERS  
11490 WESTHEIMER ROAD, STE. 950  
HOUSTON TX, 77077

Project: 01082020-0130-PRODOPS  
Project Number: DAGGER LAKE TO MERCHANT LINI  
Project Manager: ANDREW PARKER  
Fax To: (832) 672-4609

Reported:  
10-May-22 09:36

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2050443 - General Prep - Organics****LCS Dup (2050443-BSD1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	199	10.0	mg/kg	200		99.5	78.5-128	1.43	21.4	
DRO >C10-C28	208	10.0	mg/kg	200		104	75.8-135	0.577	17.9	
Total TPH C6-C28	407	10.0	mg/kg	400		102	81.5-127	0.399	17.6	
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	66.9-136			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.8	59.5-142			

**Batch 2050444 - General Prep - Organics****Blank (2050444-BLK1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.4		mg/kg	50.0		78.8	66.9-136			
Surrogate: 1-Chlorooctadecane	40.0		mg/kg	50.0		79.9	59.5-142			

**LCS (2050444-BS1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	198	10.0	mg/kg	200		99.2	78.5-128			
DRO >C10-C28	209	10.0	mg/kg	200		104	75.8-135			
Total TPH C6-C28	407	10.0	mg/kg	400		102	81.5-127			
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.1	66.9-136			
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.6	59.5-142			

**LCS Dup (2050444-BSD1)**

Prepared: 04-May-22 Analyzed: 05-May-22

GRO C6-C10	212	10.0	mg/kg	200		106	78.5-128	6.39	21.4	
DRO >C10-C28	202	10.0	mg/kg	200		101	75.8-135	3.12	17.9	
Total TPH C6-C28	414	10.0	mg/kg	400		103	81.5-127	1.63	17.6	
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	66.9-136			
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.6	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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".

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Andrew Parker				P.O. #: 01082020-0130-Prodops				<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>TPH (GRO+DRO+MRO)</div> <div>BENZENE, BTEX</div> </div>																			
Address: On-File				Company: AEP																							
City:		State:		Zip:		Attn: Send to																					
Phone #:		Fax #:		Address: aparker@																							
Project #:		Project Owner:		City: ameredev.com																							
Project Name: 01082020-0130-Prodops				State: Zip:																							
Project Location: Dagger Lake to Merchant Line Test				Phone #:																							
Sampler Name: Jacob Saenz				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H221843																											
1	B-01	4.7 FT	C 1			x					x		4/24/22	12:30 PM	x	x	x										
2	B-03 N	4.7 FT												12:40 PM													
3	B-03 S	4.7 FT												12:50 PM													
4	B-04 N	4.7 FT												1 PM													
5	B-04 S	4.7 FT												1:10 PM													
6	B-05	4.7 FT												1:20 PM													
7	B-06	4.7 FT												1:30 PM													
8	B-07 N	3 FT												1:40 PM													
9	B-07 S	3 FT												1:50 PM													
10	B-08 N	4.5 FT												2 PM													

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Relinquished By: JACOB SAENZ	Date: 5-3-22	Received By: <i>Jamara</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) 4.1c	Time: 1:00	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS: p-1 Rush 24hr - 1-10 Rush 2day - 11-34 T.O. 5/4/22	
Sampler - UPS - Bus - Other: 3.6c #113	Time:	Checked By: (Initials) JO		

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: Andrew Parker		P.O. #: 01082020-0130-Prodops		<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>TPH (GRO+DRO+MRO)</div> <div>BENZENE, BTEX</div> </div>																				
Address: On-File		Company: AEP																						
City:	State:	Zip:	Attn: Send to																					
Phone #:	Fax #:	Address: aparker@																						
Project #:	Project Owner:		City: ameredev.com																					
Project Name: 01082020-0130-Prodops			State: Zip:																					
Project Location: Dagger Lake to Merchant Line Test			Phone #:																					
Sampler Name: Jacob Saenz			Fax #:																					
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H221843																								
11	B-98S	4.5FT	1			X					X		4/22/20	9am	X	X	X							
12	B-09E	4.7FT												9:15am										
13	B-09W	4.7FT												9:25am										
14	B-10N	3.5FT												9:35am										
15	B-10S	3.5FT												9:45am										
16	B-11	3.5FT												11am										
17	B-12N	4.7FT												10:10am										
18	B-12S	4.7FT												10:25am										
19	B-13C	4.7FT												10:35am										
20	B-13E	5FT												10:45am										

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Relinquished By: 9 ALOBSAENZ	Date: 5-3-22	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 7600		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<p>p.2</p> <p>Rush!</p> <p>9:05/4/22</p>	
Delivered By: (Circle One) 4.1c C-0.5c				
Sampler - UPS - Bus - Other: 3.6c #113				
		Sample Condition	CHECKED BY: (Initials)	
		Cool Intact	40.	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Andrew Parker				P.O. #: 01082020-0130-Prodops				<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>TPH (GRO+DRO+MRO)</div> <div>BENZENE, BTEX</div> </div>																	
Address: On-File				Company: AEP																					
City:		State:		Zip:		Attn: Send to																			
Phone #:		Fax #:		Address: aparker@																					
Project #:		Project Owner:		City: ameredev.com																					
Project Name: 01082020-0130-Prodops				State: Zip:																					
Project Location: Dagger Lake to Merchant Line Test				Phone #:																					
Sampler Name: Jacob Saenz				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G/RAB OR C/COMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		CHLORIDE					TPH (GRO+DRO+MRO)					BENZENE, BTEX				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:															
A221843																									
21	B-13w	5F7	C 1			x				x			4/24/22	11am	x										
22	B-14E	2.5F7												11:15am	x										
23	B-14w	2.5F7												11:25am											
24	B-16N	4.7F7												11:36am											
25	B-16S	4.7F7												11:45am											
26	B-17E	2.5F7												12pm											
27	B-17w	2.5F7												12:10pm											
28	B-18E	3.5F7												12:15pm											
29	B-18w	3.5F7												12:30pm											
30	B-19	4.7F7												12:45pm											

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Relinquished By: JACOB SAENZ	Date: 5-3-22	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1600		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		p. 3	
Delivered By: (Circle One) 4.1e	Cool Intact	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 3.6e #13	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Rush! 5/4/22	

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Advance Energy Partners				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Andrew Parker				P.O. #: 01082020-0130-Prodops															
Address: On-File				Company: AEP															
City:		State:		Zip:		Attn: Send to													
Phone #:		Fax #:		Address: aparker@															
Project #:		Project Owner:		City: ameredev.com															
Project Name: 01082020-0130-Prodops				State:				Zip:											
Project Location: Dagger Lake to Merchant Line Test				Phone #:															
Sampler Name: Jacob Saenz				Fax #:															

FOR LAB USE ONLY				MATRIX							PRESERV.		SAMPLING		CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																
H221843																														
31	B-20NE 1.5 FT	C	1	X							X		4/22/22	1 p.m.	X	X	X													
32	B-20NW 1.5 FT													1:15pm																
33	B-20SE 1.5 FT													1:30pm																
34	B-20SW 1.5 FT													1:45pm																
35	B-20W 1.5 FT												4/22/22	10am																
36	B-21C 4 FT													10:10am																
37	B-21N 4 FT													10:25am																
38	B-21S 4 FT													10:35am																
39	B-22C 1.5 FT													10:45am																
40	B-22E 1.5 FT													11am																

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Relinquished By: SAE M2		Date: 5-3-22	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 1600					Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
REMARKS:		p. 4 Rush 5/4/22 TD.				

Relinquished By:	Date:	Received By:
Time:		

Delivered By: (Circle One) 4.1c C-0.5c	Sampler Condition	CHECKED BY:
Sampler - UPS - Bus - Other: 3.6c #113	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) Y.P.

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May 18, 2022

ANDREW PARKER

ADVANCE ENERGY PARTNERS

11490 WESTHEIMER ROAD, STE. 950

HOUSTON, TX 77077

RE: 01082020-0130-PRODOPS

Enclosed are the results of analyses for samples received by the laboratory on 05/13/22 15:20.

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](http://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



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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:	05/13/2022	Sampling Date:	05/12/2022
Reported:	05/18/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	DLMLT	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

**Sample ID: BF - 01 1.5 - 3.5' (H222055-01)**

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	05/17/2022	ND	2.03	101	2.00	2.76	
Toluene*	<0.050	0.050	05/17/2022	ND	2.02	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.6	2.00	2.61	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.98	99.6	6.00	1.51	
Total BTEX	<0.300	0.300	05/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	208	104	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.4 % 59.5-142

Cardinal Laboratories

\*=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:	05/13/2022	Sampling Date:	05/12/2022
Reported:	05/18/2022	Sampling Type:	Soil
Project Name:	01082020-0130-PRODOPS	Sampling Condition:	Cool & Intact
Project Number:	DLMLT	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

**Sample ID: BF - 02 1.5 - 3.5' (H222055-02)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	05/17/2022	ND	2.02	101	2.00	2.45		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.6	2.00	2.61		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.98	99.6	6.00	1.51		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	208	104	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 69.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
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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 115067

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	OGRID: 372417
	Action Number: 115067
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/23/2023