



**APACHE CORPORATION
NEDU #206
CLOSURE REPORT**

**RELEASE DATE: 4/4/2020
INCIDENT #: NRM2010834974
API No. 30-025-06522
U/L K, SECTION 3, TOWNSHIP 21S, RANGE 37E
LEA COUNTY, NEW MEXICO**

February 10, 2021

PREPARED BY:



**#7 COMPRESS ROAD
ARTESIA, NM 88210**

February 10, 2021

State of New Mexico Energy Minerals and Natural Resources Department
Oil Conservation Division
C/O Mike Bratcher, Robert Hamlet, Cristina Eads
1625 N. French Drive
Hobbs, NM 88240

Apache Corporation
C/O Bruce Baker
2350 W. Marland Blvd
Hobbs, NM 88240

**RE: Northeast Drinkard Unit #206 (NEDU #206)
API No. 30-015-39406
U/L K, Section 3, Township 21S, Range 37E**

To Whom it May Concern:

Apache Corporation has retained ESS (Energy Staffing and Service), Environmental & Regulatory Division to address the environmental compliance issues regarding the release detailed herein. Below you will find the site – specific information concerning the delineation and remediation that has taken place at the NEDU #206.

SITE BACKGROUND

This site is located in Lea County, New Mexico; 4.56 miles north of Eunice, New Mexico. The release occurred on April 7, 2020, when an isolation valve failed in the loss of produced water. The release occurred on the well pad, road and pasture area. 119bbls of produced water was released and 70bbls of produced water was recovered by use of a vacuum truck. The Initial C141 was submitted to the OCD on April 20, 2020.

GENERAL SITE CHARACTERISTICS

An extended ground water study was conducted and it has been determined that according to the New Mexico State Office of the Engineer and USGS indicated that water is greater than 50' bgs. The submitted workplan was then changed by the OCD that water was less than 50' bgs, therefore the OCD required that the Standard of Releases be used, utilizing the less than 50' bgs requirement. The closest well to the site with viable groundwater data is labelled CP 00553, which indicated that water is at 75' bgs.

On February 1, 2021 a boring rig was brought into bore a hole at the Hawk B #026 (API No. 30-025-35734, GPS: 32.5097 -103.1488) to determine ground water. The borehole was drilled to 57'bgs and the borehole charged for 48hours and no groundwater was found. Therefore, the groundwater depth for remediation of the NEDU #206 has been changed to the 51'-100'dgw closure criteria. Please see the chart below for the sampling criteria for this release, boring log and soil boring map that is attached:

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

KARST CHARACTERISTICS

Karst was evaluated from the NMOCD Share-Point for Karst Map Designations in reference to the NEDU #206. Based on the site observations with the extent of the release margins, the potential for Karst Formations is in the area of "low potential". With the information provided in this report, Karst is not a factor in determining the site characterization. Closure criteria will remain in the 51'-100' site ranking. Please see the Karst Map attached herein.

RELEASE INVESTIGATION DATA EVALUATION

On April 8th of 2020, Apache Corporation collected surface samples of the impacted area, these five surface samples were taken into Cardinal Lab for confirmation. The samples that were collected were analyzed for chlorides, BTEX and TPH. Laboratory analysis indicated that hydrocarbons and chloride concentrations were greater the site characterization of <50'DGW. Thus, indicating that further delineation was required to meet site closure standards.

On July 13th of 2020, Apache Corporation then collected samples at 1'bgs, at this time samples were then obtained in the same area as the SP1-SP5 samples taken on April 8th. The 1' to 2'bgs samples were also sent into Cardinal Lab for confirmation. The samples were confirmed to pass the <50' closure standards.

On July 24th of 2020, Apache Corporation submitted a workplan to the OCD. This said workplan proposed that in the area around SP-SP4 that 2'bgs be excavated, estimating 248 cubic yards of impacted material would be hauled to an approved NMOCD Facility. After the excavation, 5-point composites will be collected not to exceed 500 sq. ft. and final 5-point wall composites will be collected not to exceed 200 sq. ft. The lease road associated with SP5 final surface

bottom composite samples will be collected not to exceed 500 sq. ft and horizontal surface composite will be collected not to exceed 200 sq. ft. All final samples will be submitted to a commercial laboratory for analysis of chloride, BTEX and TPH. Once analytical data confirms that the excavation meets the Table 1 Standards for released 51-100' to groundwater the excavation will be backfilled with clean imported caliche for the lease pad and road, then clean imported topsoil will be brought in for the pasture areas and contoured. The pasture area will be reseeded with guidance from the surface owner. The remediation will be completed within one year of the NMOCD approval of the plan. Please find the remediation workplan attached herein.

On August 24th of 2020, The NMOCD denied the workplan due to the following reasons:

- The depth to groundwater has been incorrectly assessed. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ a mile away from the site, and data should be no more than 25 years old and well construction information should be provided. If Apache chooses not to drill a borehole to confirm the depth to groundwater, the site must be remediated to meet the Closure Criteria in Table 1
- The alternative sampling plan is not approved, please provide a detailed demonstration that the variance will provide equal or better protection of fresh water, public health and the environment.
- Apache's request to "complete the remediation within one year of plan approval by NMOCD" is denied. Please proceed by NMAC 19.15.12.E.

Please find the email with the above denial stipulations attached to this report.

SCOPE OF WORK AND LIMITATIONS

ESS began the remediation on January 4th of 2021. A total of 344 cubic yards of contaminated soil was excavated and hauled to Sundance Services in Eunice, New Mexico. On January 29th of 2021, ESS began to conduct composite closure sampling. A total of 52 bottom hole composite samples were obtained along with 4 horizontal composites. These samples were jarred and delivered to Cardinal Laboratories for confirmation. All final composite samples were under the closure requirements for this release. Once the confirmation samples were received, backfilling of the site began on February 8th, 2021 (please see composite closure sample map along with the attached spreadsheet for GPS Coordinates). 360 cubic yards of clean imported caliche was used to backfill and contour the pad and road excavations. A total of 60 cubic yards of imported topsoil was used to backfill and contour the pasture areas. Seeding of the pasture areas will take place at a later date.

On behalf of Apache Corporation and Energy Staffing Services, we respectfully request closure of the release that occurred at the NEDU #206. If you have any questions or concerns please feel free to contact me or Bruce Baker at any time.

Sincerely,

Natalie Gladden

Natalie Gladden
Director of Environmental and Regulatory Services
#7 Compress Road
Artesia, NM 88210
Cell: 575-390-6397
Email: natalie@energystaffingllc.com

Attachments

- Initial C141
- Site Map
- Karst Map
- Remediation Plan
- Boring Log
- Closure Sample Data
- Closure Sample Map w/GPS attachment
- Closure Lab Analysis
- Site Photos (Remediation and Backfill)
- Final C141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2010834974
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Apache Corporation	OGRID	873
Contact Name	Bruce Baker	Contact Telephone	432-631-6982
Contact email	larry.baker@apachecorp.com	Incident # (assigned by OCD)	
Contact mailing address	2350 W. Marland BLVD Hobbs, NM 88240		

Location of Release Source

Latitude 32.51335 Longitude -103.15306
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	NEDU 206	Site Type	Injection Well
Date Release Discovered	4/7/2020	API# (if applicable)	30-025-06522

Unit Letter	Section	Township	Range	County
K	3	21S	37E	Lea

Surface Owner: State Federal Tribal Private (Name: Taylor Gervis Elizabeth ETAL)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 119 barrels	Volume Recovered (bbls) 70 barrels
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release An isolation valve failed resulting in the loss of produced water

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2010834974
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume greater than 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Bruce Baker notified Jim Griswold via email on 4/8/2020	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Bruce Baker</u>	Title: <u>Environmental Tech SR.</u>
Signature: <u>Bruce Baker</u>	Date: <u>4/20/20</u>
email: <u>larry.baker@apachecorp.com</u>	Telephone: <u>432-631-6982</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>4/20/2020</u>

NRM2010834974

Release Calculation

841 Cubic Feet X 7.48=6,290 gallons/42=149.76X.33=49 barrels +70=119

APACHE CORPORATION

Legend
📌 NEDU #206

NEDU #206
SITE MAP

📌 NEDU #206

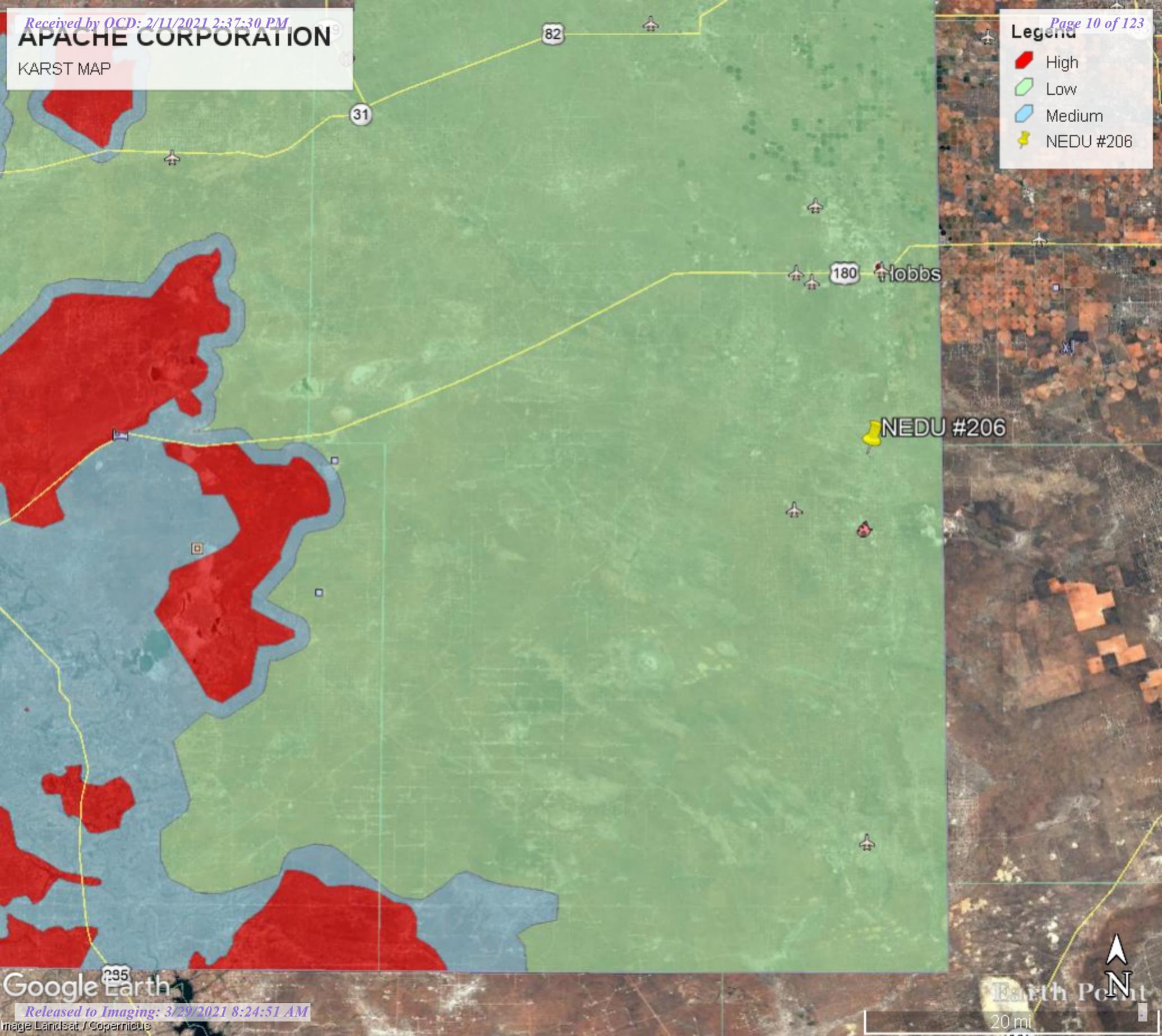
Earth Point
N
100 ft

APACHE CORPORATION

KARST MAP

Legend

- High
- Low
- Medium
- 📌 NEDU #206



Google Earth

Earth Point

20 mi

N

Sent: Monday, August 24, 2020 12:05 PM

To: Baker, Larry <Larry.Baker@apachecorp.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>

Subject: [EXTERNAL] NRM2010834974 NEDU 206 @ 30-025-06522

NRM2010834974 NEDU 206 @ 30-025-06522

Mr. Baker,

The OCD has denied the submitted Site Characterization/Remediation Plan C-141 for incident # NRM2010834974 NEDU 206 @ 30-025-06522 for the following reasons:

- The Depth to groundwater has been incorrectly assessed. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If Apache believes that groundwater is > 50', a borehole will need to be drilled onsite and a copy of the driller's log must be provided. If Apache chooses not to drill a borehole to confirm the depth to groundwater, the site must be remediated to meet the Closure Criteria in Table 1 for groundwater at a depth of 50 feet or less.
- The alternative sampling plan is not approved. Please provide a detailed demonstration that the variance will provide equal or better protection of fresh water, public health and the environment.
- Apache's request to "complete the remediation within one year of plan approval by NMOCD" is denied. Please proceed by NMAC 19.15.12.E.(1).

The Denied C-141 can be found in the online image file. Please review and make the required correction prior to resubmitting through the fee portal.

Thank you,

Victoria Venegas
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283

Victoria.Venegas@state.nm.us



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

July 24, 2020

Re: NEDU 206
Case # NRM201084974

Background:

On 4/7/2020 a release occurred due to an isolation valve failed resulting in the loss of produced water. The release is located (GPS: 32.51335, - 103.15306) north of Eunice in unit letter K section 3 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record indicates water is greater than 50 feet. On 4/8/2020 surface samples were collected and submitted to a commercial laboratory for chloride, TPH, and BTEX. On 7/13/2020 samples were collected in 1 foot intervals utilizing a backhoe. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area be excavated to a depth of 1 foot around SP 1, 2, 3, and 4. All excavated material (248 yards) will be hauled to an NMOCD approved facility. After the excavation is complete final 5 point bottom composite samples will be collected not to exceed 500 square feet. Final 5 point wall composite samples will be collected not to exceed 200 square feet. The lease road associated with SP 5 final surface bottom composite samples will be collected not to exceed 500 square feet. Horizontal surface composite samples will be collected not to exceed 200 square feet. All final samples will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once analytical data confirms that the excavation meet table 1 standards for releases 51-100 feet to groundwater the excavation will be backfilled with clean imported caliche for the lease pad and clean imported topsoil for the pasture areas and countered to the surrounding area. The pasture area will be reseed with guidance from the surface owner. The remediation will be completed within one year of NMOCD approval of the plan.

Enclosed: Corrected C-141, Groundwater data, Maps, Sample Data, and Laboratory Results

Submitted by;

Bruce Baker

Environmental Technician
larry.baker@apachecorp.com

Cell# 432-631-6982
Off# 575-393-7106

NOTE: Plan rejected OCD wanted remediated to Table 1 Standards for releases less than 50 feet to groundwater New Yardage total is 380 yards and 200 square feet final Sampling not 500 square feet.

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District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 7/27/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: Larry Baker Date: 7/27/2020
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

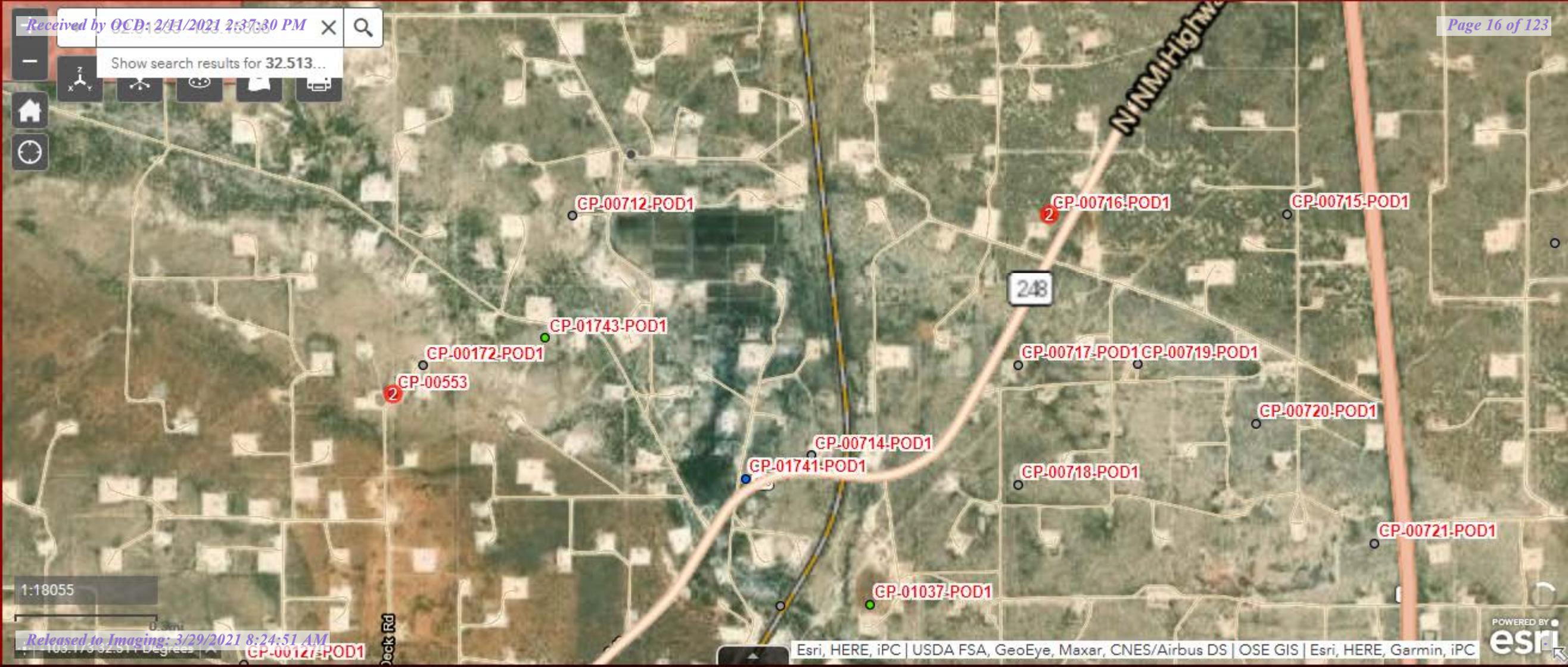
OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Show search results for 32.513...



1:18055





New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 00553	2 4 04	21S	37E	672700 3598022*		

Driller License: 208	Driller Company: VAN NOY, W.L.	
Driller Name: VAN NOY, W.L.		
Drill Start Date: 09/30/1976	Drill Finish Date: 09/30/1976	Plug Date:
Log File Date: 01/10/1979	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.63	Depth Well: 90 feet	Depth Water: 75 feet

Water Bearing Stratifications:	Top	Bottom	Description
	75	85	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	75	89

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/16/19 6:26 AM

Page 1 of 1

POD SUMMARY - CP 00553



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

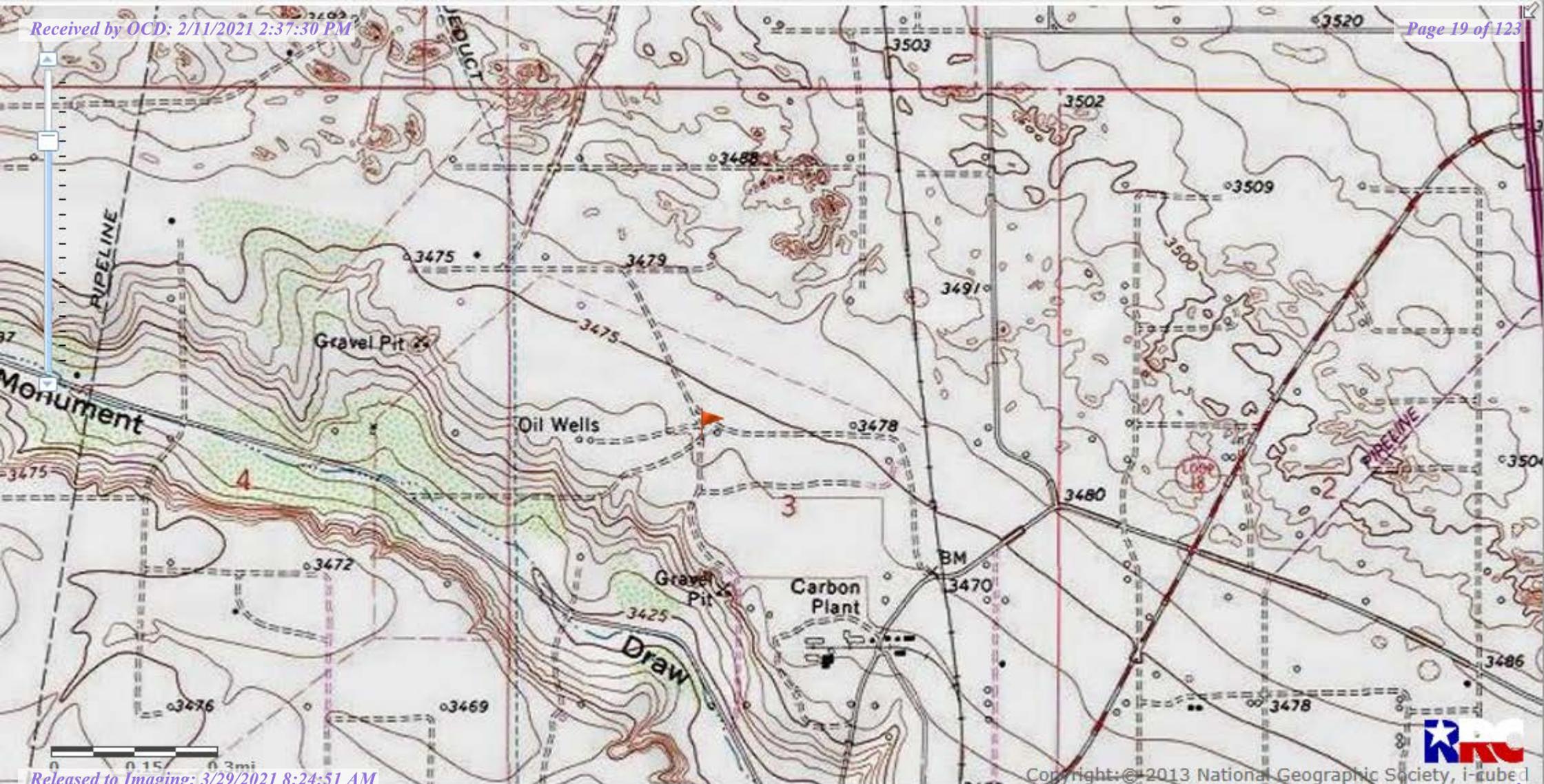
Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 01486 POD1	4 2 1	05	21S	37E	670333	3599085

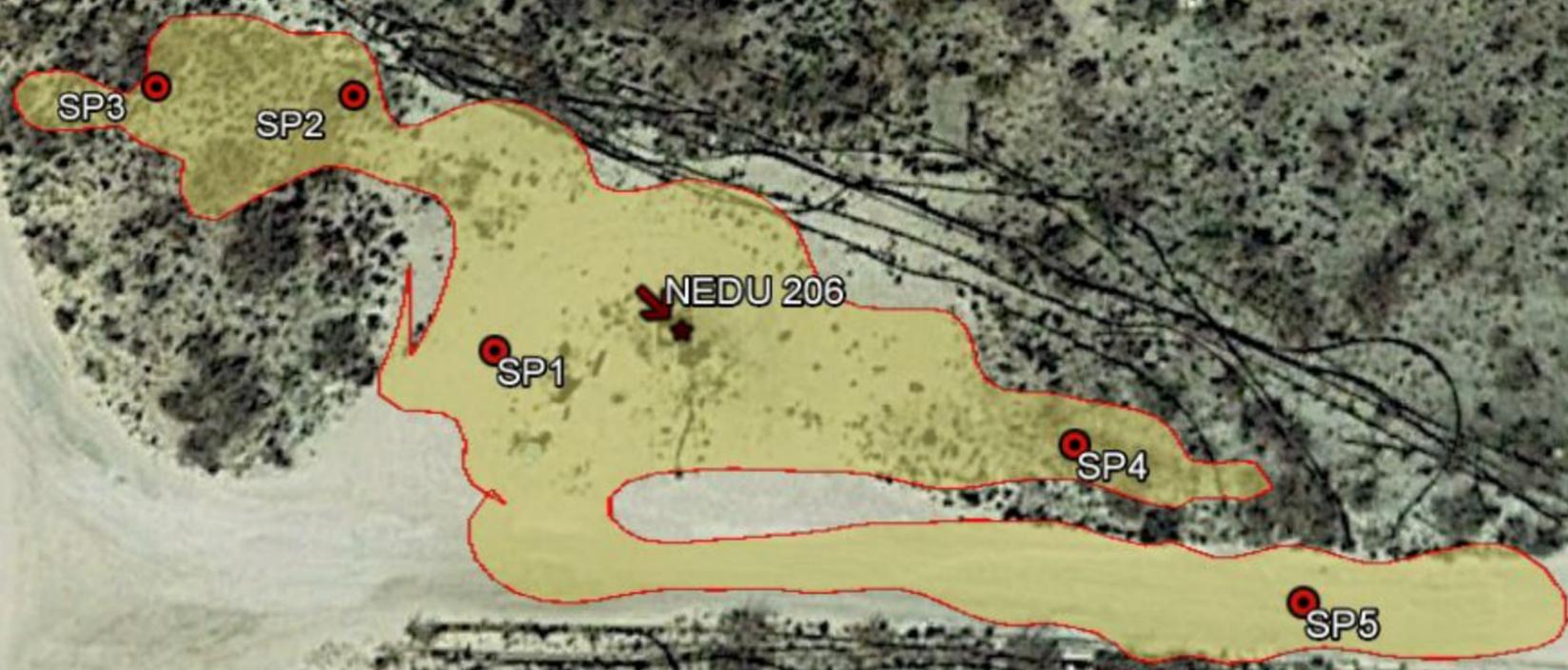
Driller License: 1044	Driller Company: EADES WELL DRILLING & PUMP SERVICE	
Driller Name: ALAN G EADES		
Drill Start Date: 02/02/2016	Drill Finish Date: 02/02/2016	Plug Date:
Log File Date: 02/05/2016	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.14	Depth Well: 140 feet	Depth Water: 52 feet

Water Bearing Stratifications:	Top	Bottom	Description
	52	105	Sandstone/Gravel/Conglomerate
	105	135	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	100	140

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.





96 ft

© 2020 Google

Google earth

NEDU Injection Line
Complete List

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
4/8/2020	SP1	S	1560	<0.050	<0.050	0.083	0.370	0.453	20.5	1000	172	32.51338 -103.15316
7/13/2020		1'	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/8/2020	SP2	S	3680	0.327	0.761	1.02	2.83	4.93	<200	4030	531	32.51352 -103.15325
7/13/2020		1'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/8/2020	SP3	S	5120	0.099	0.245	0.250	0.716	1.31	14.3	135	14.5	32.51352 -103.15339
7/13/2020		1'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/8/2020	SP4	S	8560	1.32	4.86	5.85	15.2	27.2	809	10700	1550	32.51331 -103.15283
7/13/2020		1'	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
7/13/2020		2'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.6	<10.0	
4/8/2020	SP5	S	7680	2.40	8.06	7.17	17	34.6	63.9	188	19.1	32.51325 -103.15269
7/13/2020		1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	



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

April 14, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #206

Enclosed are the results of analyses for samples received by the laboratory on 04/08/20 15:10.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	04/08/2020	Sampling Date:	04/08/2020
Reported:	04/14/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ SURFACE (H001046-01)

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	04/09/2020	ND	1.91	95.3	2.00	0.0296	
Toluene*	<0.050	0.050	04/09/2020	ND	1.92	95.8	2.00	0.285	
Ethylbenzene*	0.083	0.050	04/09/2020	ND	1.93	96.5	2.00	0.467	
Total Xylenes*	0.370	0.150	04/09/2020	ND	5.66	94.3	6.00	0.263	
Total BTEX	0.453	0.300	04/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1560	16.0	04/09/2020	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*	20.5	10.0	04/09/2020	ND	197	98.4	200	0.0569	
DRO >C10-C28*	1000	10.0	04/09/2020	ND	206	103	200	2.28	
EXT DRO >C28-C36	172	10.0	04/09/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 148 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	04/08/2020	Sampling Date:	04/08/2020
Reported:	04/14/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ SURFACE (H001046-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.327	0.050	04/09/2020	ND	1.91	95.3	2.00	0.0296	
Toluene*	0.761	0.050	04/09/2020	ND	1.92	95.8	2.00	0.285	
Ethylbenzene*	1.02	0.050	04/09/2020	ND	1.93	96.5	2.00	0.467	
Total Xylenes*	2.83	0.150	04/09/2020	ND	5.66	94.3	6.00	0.263	
Total BTEX	4.93	0.300	04/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	04/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<200	200	04/09/2020	ND	197	98.4	200	0.0569	
DRO >C10-C28*	4030	200	04/09/2020	ND	206	103	200	2.28	
EXT DRO >C28-C36	531	200	04/09/2020	ND					

Surrogate: 1-Chlorooctane 143 % 44.3-144

Surrogate: 1-Chlorooctadecane 228 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 04/08/2020
 Reported: 04/14/2020
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: NONE GIVEN

Sampling Date: 04/08/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H001046-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.099	0.050	04/09/2020	ND	1.91	95.3	2.00	0.0296	
Toluene*	0.245	0.050	04/09/2020	ND	1.92	95.8	2.00	0.285	
Ethylbenzene*	0.250	0.050	04/09/2020	ND	1.93	96.5	2.00	0.467	
Total Xylenes*	0.716	0.150	04/09/2020	ND	5.66	94.3	6.00	0.263	
Total BTEX	1.31	0.300	04/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	5120	16.0	04/09/2020	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*	14.3	10.0	04/09/2020	ND	197	98.4	200	0.0569	
DRO >C10-C28*	135	10.0	04/09/2020	ND	206	103	200	2.28	
EXT DRO >C28-C36	14.5	10.0	04/09/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	04/08/2020	Sampling Date:	04/08/2020
Reported:	04/14/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ SURFACE (H001046-04)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.32	0.050	04/09/2020	ND	1.91	95.3	2.00	0.0296	
Toluene*	4.86	0.050	04/09/2020	ND	1.92	95.8	2.00	0.285	
Ethylbenzene*	5.85	0.050	04/09/2020	ND	1.93	96.5	2.00	0.467	
Total Xylenes*	15.2	0.150	04/09/2020	ND	5.66	94.3	6.00	0.263	
Total BTEX	27.2	0.300	04/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 256 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8560	16.0	04/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	809	200	04/09/2020	ND	197	98.4	200	0.0569	
DRO >C10-C28*	10700	200	04/09/2020	ND	206	103	200	2.28	
EXT DRO >C28-C36	1550	200	04/09/2020	ND					

Surrogate: 1-Chlorooctane 186 % 44.3-144

Surrogate: 1-Chlorooctadecane 373 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	04/08/2020	Sampling Date:	04/08/2020
Reported:	04/14/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 5 @ SURFACE (H001046-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.40	0.050	04/09/2020	ND	1.91	95.3	2.00	0.0296	
Toluene*	8.06	0.050	04/09/2020	ND	1.92	95.8	2.00	0.285	
Ethylbenzene*	7.17	0.050	04/09/2020	ND	1.93	96.5	2.00	0.467	
Total Xylenes*	17.0	0.150	04/09/2020	ND	5.66	94.3	6.00	0.263	
Total BTEX	34.6	0.300	04/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 223 % 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	7680	16.0	04/09/2020	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*	63.9	10.0	04/09/2020	ND	197	98.4	200	0.0569	
DRO >C10-C28*	188	10.0	04/09/2020	ND	206	103	200	2.28	
EXT DRO >C28-C36	19.1	10.0	04/09/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 15, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #206

Enclosed are the results of analyses for samples received by the laboratory on 07/13/20 15:28.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/13/2020	Sampling Date:	07/13/2020
Reported:	07/15/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 1' (H001828-01)

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	07/14/2020	ND	1.86	92.9	2.00	6.35		
Toluene*	<0.050	0.050	07/14/2020	ND	1.87	93.3	2.00	6.58		
Ethylbenzene*	<0.050	0.050	07/14/2020	ND	1.88	93.9	2.00	6.65		
Total Xylenes*	<0.150	0.150	07/14/2020	ND	5.41	90.2	6.00	6.73		
Total BTEX	<0.300	0.300	07/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	368	16.0	07/14/2020	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	07/14/2020	ND	198	98.9	200	1.72		
DRO >C10-C28*	<10.0	10.0	07/14/2020	ND	182	90.8	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	07/14/2020	ND						

Surrogate: 1-Chlorooctane 84.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 07/13/2020
 Reported: 07/15/2020
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: NONE GIVEN

Sampling Date: 07/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H001828-02)

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	07/14/2020	ND	1.86	92.9	2.00	6.35	
Toluene*	<0.050	0.050	07/14/2020	ND	1.87	93.3	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/14/2020	ND	1.88	93.9	2.00	6.65	
Total Xylenes*	<0.150	0.150	07/14/2020	ND	5.41	90.2	6.00	6.73	
Total BTEX	<0.300	0.300	07/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	128	16.0	07/14/2020	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	07/14/2020	ND	198	98.9	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/14/2020	ND	182	90.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 07/13/2020
 Reported: 07/15/2020
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: NONE GIVEN

Sampling Date: 07/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H001828-03)

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	07/14/2020	ND	1.86	92.9	2.00	6.35	
Toluene*	<0.050	0.050	07/14/2020	ND	1.87	93.3	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/14/2020	ND	1.88	93.9	2.00	6.65	
Total Xylenes*	<0.150	0.150	07/14/2020	ND	5.41	90.2	6.00	6.73	
Total BTEX	<0.300	0.300	07/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	272	16.0	07/14/2020	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	07/14/2020	ND	198	98.9	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/14/2020	ND	182	90.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.8 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/13/2020	Sampling Date:	07/13/2020
Reported:	07/15/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ 1' (H001828-04)

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	07/14/2020	ND	1.86	92.9	2.00	6.35	
Toluene*	<0.050	0.050	07/14/2020	ND	1.87	93.3	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/14/2020	ND	1.88	93.9	2.00	6.65	
Total Xylenes*	<0.150	0.150	07/14/2020	ND	5.41	90.2	6.00	6.73	
Total BTEX	<0.300	0.300	07/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	528	16.0	07/14/2020	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	07/14/2020	ND	198	98.9	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/14/2020	ND	182	90.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 07/13/2020
 Reported: 07/15/2020
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: NONE GIVEN

Sampling Date: 07/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H001828-05)

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	07/14/2020	ND	1.86	92.9	2.00	6.35	
Toluene*	<0.050	0.050	07/14/2020	ND	1.87	93.3	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/14/2020	ND	1.88	93.9	2.00	6.65	
Total Xylenes*	<0.150	0.150	07/14/2020	ND	5.41	90.2	6.00	6.73	
Total BTEX	<0.300	0.300	07/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	240	16.0	07/14/2020	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	07/14/2020	ND	198	98.9	200	1.72	
DRO >C10-C28*	14.6	10.0	07/14/2020	ND	182	90.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/13/2020	Sampling Date:	07/13/2020
Reported:	07/15/2020	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 5 @ 1' (H001828-06)

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	07/14/2020	ND	1.86	92.9	2.00	6.35	
Toluene*	<0.050	0.050	07/14/2020	ND	1.87	93.3	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/14/2020	ND	1.88	93.9	2.00	6.65	
Total Xylenes*	<0.150	0.150	07/14/2020	ND	5.41	90.2	6.00	6.73	
Total BTEX	<0.300	0.300	07/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	07/14/2020	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	07/14/2020	ND	198	98.9	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/14/2020	ND	182	90.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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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

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Celey D. Keene, Lab Director/Quality Manager

BORING LOCATION: APACHE CORPORATION NEDU #206
DESERT SAND DRILLING

DATE: 2/1/2021

DEPTH (FEET BGL)		THICKNESS	TYPE OF SOIL	WATER BEARING	
FROM	TO			YES	NO
0'	5'	5'	TOPSOIL		X
5'	10'	5'	CALICHE		X
10'	20'	10'	CALICHE/RED SAND		X
20'	38'	18'	RED SAND/CLAY		X
38'	48'	10'	RED SAND		X
48'	57'	9'	TAN SAND/RED CLAY		X

APACHE CORPORATION

NEDU #206 BOREHOLE MAP

Legend

-  .36 MILES FROM NEDU 206
-  BOREHOLE 0.36 MILES FROM NEDU 206
-  HAWK B 3 #26
-  NEDU #206

NEDU #206

HAWK B 3 #26

BOREHOLE 0.36 MILES FROM NEDU 206

APACHE CORPORATION:

NEDU 206

CLOSURE SAMPLES

SMP PT	DEPTH	FIELD CHL	LAB CHL	BENZENE	TOLUENE	ETHYLENZ ENE	TOTAL XYLENES	TOTAL BTEX	GRO	DRO	EXT DRO	TPH
COMP 1	1'	60	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 2	1'	60	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 3	1'	100	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 4	1'	124	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 5	1'	40	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 6	1'	40	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 7	1'	40	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 8	1'	40	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 9	1'	120	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 10	1'	40	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 11	1'	460	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10	97	92.7	199.7
COMP 12	1'	600	544	<0.050	<0.050	<0.050	<0.150	<0.300	<10	96.8	79.3	186.1
COMP 13	1'	600	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10	287	192	489
COMP 14	1'	300	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10	22.6	18.7	51.3
COMP 15	1'	500	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10	81.9	98	189.9
COMP 16	1'	720	688	<0.050	<0.050	<0.050	<0.150	<0.300	<10	105	97.4	212.4
COMP 17	1'	520	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10	21.5	12.1	43.6
COMP 18	1'	400	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10	113	110	233
COMP 19	1'	380	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10	206	130	346
COMP 20	1'	340	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10	83.4	82.4	175.8
COMP 21	1'	300	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10	70.6	87.7	168.3
COMP 22	1'	300	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10	83.6	115	208.6
COMP 23	1'	440	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10	57.4	56.1	123.5
COMP 24	1'	800	720	<0.050	<0.050	<0.050	<0.150	<0.300	<10	83.8	98.3	192.1
COMP 25	1'	740	704	<0.050	<0.050	<0.050	<0.150	<0.300	<10	57.1	51.2	118.3
COMP 26	1'	400	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10	114	70.6	194.6
COMP 27	1'	320	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10	18.2	16	34.2
COMP 28	1'	180	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	40.4	39.2	79.6
COMP 29	1'	120	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10	39.9	37.7	87.6
COMP 30	1'	240	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	74.5	75.2	149.7

COMP 31	1'	200	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10	47	48.9	135.9
COMP 32	1'	900	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10	23.3	16.5	49.8
COMP 33	1'	200	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	30.5	22.8	63.3
COMP 34	1'	520	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10	172	124	306
COMP 35	1'	200	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10	47.5	51.4	108.9
COMP 36	1'	240	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	76.7	77.8	164.5
COMP 37	1'	800	784	<0.050	<0.050	<0.050	<0.150	<0.300	<10	20.7	10.9	41.6
COMP 38	1'	520	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10	62.3	39.5	111.8
COMP 39	1'	380	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10	32.6	20	62.6
COMP 40	1'	340	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10	146	84.6	240.6
COMP 41	1'	660	608	<0.050	<0.050	<0.050	<0.150	<0.300	<10	40.3	14.1	64.4
COMP 42	1'	220	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.4	<10	34.4
COMP 43	1'	500	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10	27.3	12.8	50.1
COMP 44	1'	800	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10	21.7	<10	41.7
COMP 45	1'	340	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10	22.6	10.1	42.7
COMP 46	1'	1020	1010	<0.050	<0.050	<0.050	<0.150	<0.300	<10	20	<10	40
COMP 47	1'	640	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10	19.6	10.8	40.4
COMP 48	1'	500	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10	16.7	<10	36.7
COMP 49	1'	600	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
COMP 50	1'	400	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10	69	21.5	100.5
COMP 51	1'	340	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10	33.5	17.9	61.4
COMP 52	1'	380	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.2	<10	30.2
W1		200	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10	22.4	12.5	44.9
W2		180	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10	22.3	10.3	42.6
W3		280	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10	15.6	<10	35.6
W4		300	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.3	<10	30.3



APACHE CORPORATION
NEDU 206 - CLOSURE COMPOSITE GPS

SAMPLE ID	LAT	LONG
CP1	32.513524	-103.153424
CP2	32.513544	-103.153356
CP3	32.513539	-103.153316
CP4	32.513534	-103.153285
CP5	32.513516	-103.153247
CP6	32.513223	-103.153210
CP7	32.513499	-103.153189
CP8	32.513499	-103.153189
CP9	32.513404	-103.153181
CP10	32.513357	-103.153188
CP11	32.513314	-103.153198
CP12	32.513286	-103.153218
CP13	32.513486	-103.153149
CP14	32.513444	-103.153144
CP15	32.513405	-103.153146
CP16	32.513359	-103.153148
CP17	32.513141	-103.153141
CP18	32.513281	-103.153173
CP19	32.513472	-103.153096
CP20	32.513427	-103.153101
CP21	32.513390	-103.153098
CP22	32.513354	-103.153100
CP23	32.513310	-103.153104
CP24	32.513267	-103.153132
CP25	32.513261	-103.153092
CP26	32.513463	-103.153050
CP27	32.513427	-103.153050
CP28	32.513394	-103.153049
CP29	32.513362	-103.153047
CP30	32.513331	-103.153049
CP31	32.513299	-103.153037
CP32	32.513262	-103.153050
CP33	32.513437	-103.152984
CP34	32.513407	-103.152976
CP35	32.513378	-103.152984
CP36	32.513333	-103.152989
CP37	32.513262	-103.153001
CP38	32.513378	-103.152913
CP39	32.513331	-103.152939
CP40	32.513297	-103.152959
CP41	32.513265	-103.152955
CP42	32.513343	-103.152895
CP43	32.513303	-103.152903

CP44	32.513263	-103.152903
CP45	32.513300	-103.152846
CP46	32.513257	-103.152852
CP47	32.513253	-103.152818
CP48	32.513248	-103.152771
CP49	32.513293	-103.152784
CP50	32.513244	-103.152732
CP51	32.513246	-103.152684
CP52	32.513244	-103.152646
SW1	32.513521	-103.153459
SW2	32.513365	-103.152860
SW3	32.513245	-103.152593
SW4	32.513243	-103.153028



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

February 02, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #206

Enclosed are the results of analyses for samples received by the laboratory on 01/29/21 16:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 01/29/2021
 Reported: 02/02/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 01/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: COMPOSITE - 1 (H210227-01)

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	02/01/2021	ND	2.08	104	2.00	4.93	
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74	
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72	
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41	
Total BTEX	<0.300	0.300	02/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	02/02/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.0 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 2 (H210227-02)

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	02/01/2021	ND	2.08	104	2.00	4.93		
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74		
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72		
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41		
Total BTEX	<0.300	0.300	02/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	48.0	16.0	02/02/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62		
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND						

Surrogate: 1-Chlorooctane 93.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 3 (H210227-03)

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	02/01/2021	ND	2.08	104	2.00	4.93	
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74	
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72	
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41	
Total BTEX	<0.300	0.300	02/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	80.0	16.0	02/02/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 4 (H210227-04)

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	02/01/2021	ND	2.08	104	2.00	4.93	
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74	
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72	
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41	
Total BTEX	<0.300	0.300	02/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	112	16.0	02/02/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 5 (H210227-05)

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	02/01/2021	ND	2.08	104	2.00	4.93	
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74	
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72	
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41	
Total BTEX	<0.300	0.300	02/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	02/02/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 6 (H210227-06)

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	02/01/2021	ND	2.08	104	2.00	4.93		
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74		
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72		
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41		
Total BTEX	<0.300	0.300	02/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	<16.0	16.0	02/02/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62		
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND						

Surrogate: 1-Chlorooctane 93.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 7 (H210227-07)

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	02/01/2021	ND	2.08	104	2.00	4.93		
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74		
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72		
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41		
Total BTEX	<0.300	0.300	02/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	02/02/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62		
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 8 (H210227-08)

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	02/01/2021	ND	2.08	104	2.00	4.93		
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74		
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72		
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41		
Total BTEX	<0.300	0.300	02/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	<16.0	16.0	02/02/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62		
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND						

Surrogate: 1-Chlorooctane 95.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 9 (H210227-09)

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	02/01/2021	ND	2.08	104	2.00	4.93		
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74		
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72		
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41		
Total BTEX	<0.300	0.300	02/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	80.0	16.0	02/02/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62		
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND						

Surrogate: 1-Chlorooctane 87.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.1 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/29/2021	Sampling Date:	01/29/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE - 10 (H210227-10)

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	02/01/2021	ND	2.08	104	2.00	4.93		
Toluene*	<0.050	0.050	02/01/2021	ND	2.00	99.8	2.00	4.74		
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	1.96	97.9	2.00	5.72		
Total Xylenes*	<0.150	0.150	02/01/2021	ND	5.82	97.0	6.00	5.41		
Total BTEX	<0.300	0.300	02/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	02/02/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/01/2021	ND	169	84.4	200	7.62		
DRO >C10-C28*	<10.0	10.0	02/01/2021	ND	170	85.2	200	7.52		
EXT DRO >C28-C36	<10.0	10.0	02/01/2021	ND						

Surrogate: 1-Chlorooctane 98.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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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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

BILL TO

ANALYSIS REQUEST

Company Name: APACHE CORPORATION P.O. #:
 Project Manager: BRUCE BAKER Company: APACHE
 Address: 2350 W MARYLAND BLVD Attn: BRUCE BAKER
 City: HOBBS State: NM Zip: 88240 Address:
 Phone #: Fax #: City: State: Zip: Project Owner:
 Project #: Project Name: NEOY 206 State: Zip: Phone #: Fax #:
 Project Location: NEOY 206 - BRIDGE ST
 Sampler Name: MAE RIVERA

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			
<u>H21D227</u>	<u>COMPOSITE-1</u>	<u>G</u>	<u>1</u>								<u>1-29</u>	<u>9:00</u>	<u>BTEX</u>
	<u>COMPOSITE-2</u>											<u>9:25</u>	<u>EX-TPH</u>
	<u>COMPOSITE-3</u>											<u>9:50</u>	<u>CHLORIDE</u>
	<u>COMPOSITE-4</u>											<u>10:25</u>	
	<u>COMPOSITE-5</u>											<u>11:00</u>	
	<u>COMPOSITE-6</u>											<u>11:35</u>	
	<u>COMPOSITE-7</u>											<u>1:15</u>	
	<u>COMPOSITE-8</u>											<u>1:45</u>	
	<u>COMPOSITE-9</u>											<u>2:15</u>	
	<u>COMPOSITE-10</u>											<u>3:00</u>	

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Relinquished By: [Signature] Date: 1-29-21 Received By: [Signature] Date: 1-29-21
 Time: 4:30 Corrected Temp. °C: 0.9
 Observed Temp. °C: 0.9 Sample Condition: Cool Intact
 Corrected Temp. °C: 0.9 Yes No

Delivered By: (Circle One) UPS Bus Other: UPS
 Sampler - UPS - Bus - Other: UPS
 Checked By: [Signature] (Initials)
 Remarks: ATTN BRUCE BAKER
 Turnaround Time: Standard Rush
 Thermometer ID #113 AND NATALIE CLAUDEN
 Correction Factor None Bacteria (only)
 Cool Intact Sample Condition
 Yes Observed Temp. °C
 No Corrected Temp. °C



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

February 04, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #206

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 16:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 11 (H210252-01)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	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	432	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	97.0	10.0	02/02/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	92.7	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.6 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 12 (H210252-02)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	544	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	96.8	10.0	02/02/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	79.3	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 66.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 13 (H210252-03)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	560	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	287	10.0	02/02/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	192	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 02/01/2021
 Reported: 02/04/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: COMPOSITE 14 (H210252-04)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	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	272	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	22.6	10.0	02/02/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	18.7	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 15 (H210252-05)

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	02/03/2021	ND	2.26	113	2.00	2.35		
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75		
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62		
Total BTEX	<0.300	0.300	02/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	464	16.0	02/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	188	93.8	200	6.18		
DRO >C10-C28*	81.9	10.0	02/02/2021	ND	189	94.7	200	4.76		
EXT DRO >C28-C36	98.0	10.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.6 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 16 (H210252-06)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	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	688	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	105	10.0	02/02/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	97.4	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.6 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 17 (H210252-07)

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	02/03/2021	ND	2.26	113	2.00	2.35		
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75		
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62		
Total BTEX	<0.300	0.300	02/03/2021	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	02/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	188	93.8	200	6.18		
DRO >C10-C28*	21.5	10.0	02/03/2021	ND	189	94.7	200	4.76		
EXT DRO >C28-C36	12.1	10.0	02/03/2021	ND						

Surrogate: 1-Chlorooctane 63.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 65.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 18 (H210252-08)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	368	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	113	10.0	02/03/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	110	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 19 (H210252-09)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	336	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	206	10.0	02/03/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	130	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 20 (H210252-10)

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	02/03/2021	ND	2.26	113	2.00	2.35		
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75		
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62		
Total BTEX	<0.300	0.300	02/03/2021	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	320	16.0	02/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	172	86.0	200	7.69	QM-07, QR-03	
DRO >C10-C28*	83.4	10.0	02/02/2021	ND	175	87.5	200	7.73	QR-03	
EXT DRO >C28-C36	82.4	10.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 21 (H210252-11)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	256	16.0	02/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	70.6	10.0	02/02/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	87.7	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 22 (H210252-12)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	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	304	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	83.6	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	115	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 23 (H210252-13)

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	02/03/2021	ND	2.26	113	2.00	2.35	
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62	
Total BTEX	<0.300	0.300	02/03/2021	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	416	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	57.4	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	56.1	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 24 (H210252-14)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2021	ND	2.26	113	2.00	2.35		
Toluene*	<0.050	0.050	02/03/2021	ND	2.21	110	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.18	109	2.00	1.75		
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.37	106	6.00	1.62		
Total BTEX	<0.300	0.300	02/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	720	16.0	02/03/2021	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69		
DRO >C10-C28*	83.8	10.0	02/03/2021	ND	175	87.5	200	7.73		
EXT DRO >C28-C36	98.3	10.0	02/03/2021	ND						

Surrogate: 1-Chlorooctane 58.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 64.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 25 (H210252-15)

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	02/02/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/02/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	704	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	57.1	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	51.2	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 26 (H210252-16)

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	02/02/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/02/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	352	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	114	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	70.6	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 27 (H210252-17)

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	02/02/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/02/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	256	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	18.2	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	16.0	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 02/01/2021
 Reported: 02/04/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: COMPOSITE 28 (H210252-18)

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	02/02/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/02/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	160	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	40.4	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	39.2	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 29 (H210252-19)

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	02/02/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/02/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	96.0	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	39.9	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	37.7	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 02/01/2021
 Reported: 02/04/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: COMPOSITE 30 (H210252-20)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	74.5	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	75.2	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 71.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 31 (H210252-21)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	47.0	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	48.9	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 73.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 32 (H210252-22)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	816	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	23.3	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	16.5	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 50.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 52.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 33 (H210252-23)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	224	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	30.5	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	22.8	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 68.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 34 (H210252-24)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	448	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	172	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	124	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 35 (H210252-25)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	47.5	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	51.4	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 36 (H210252-26)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	76.7	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	77.8	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 37 (H210252-27)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	784	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	20.7	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	10.9	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 38 (H210252-28)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	464	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	62.3	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	39.5	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 39 (H210252-29)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	304	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2021	ND	172	86.0	200	7.69	
DRO >C10-C28*	32.6	10.0	02/03/2021	ND	175	87.5	200	7.73	
EXT DRO >C28-C36	20.0	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 40 (H210252-30)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	304	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	176	87.8	200	7.93	QM-07
DRO >C10-C28*	146	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	84.6	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 61.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 41 (H210252-31)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	608	16.0	02/03/2021	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	40.3	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	14.1	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 42 (H210252-32)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	10.4	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 74.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 43 (H210252-33)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	480	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	27.3	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	12.8	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 02/01/2021
 Reported: 02/04/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: COMPOSITE 44 (H210252-34)

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	02/03/2021	ND	2.01	100	2.00	6.11	
Toluene*	<0.050	0.050	02/03/2021	ND	2.03	101	2.00	6.72	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.00	100	2.00	7.22	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.36	106	6.00	7.08	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	736	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	21.7	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 73.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 45 (H210252-35)

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	02/03/2021	ND	2.10	105	2.00	1.33	QR-03
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	QR-03
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	22.6	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	10.1	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 02/01/2021
 Reported: 02/04/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: COMPOSITE 46 (H210252-36)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1010	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	20.0	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 02/01/2021
 Reported: 02/04/2021
 Project Name: NEDU #206
 Project Number: NEDU #206
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: COMPOSITE 47 (H210252-37)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	624	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	19.6	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	10.8	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 48 (H210252-38)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	528	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/02/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	16.7	10.0	02/02/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 49 (H210252-39)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	560	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	<10.0	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 50 (H210252-40)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	368	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	69.0	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	21.5	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.2 % 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:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 51 (H210252-41)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	33.5	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	17.9	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 69.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE 52 (H210252-42)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	352	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	10.2	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: W 1 (H210252-43)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	176	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	22.4	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	12.5	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: W 2 (H210252-44)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	22.3	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	10.3	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: W 3 (H210252-45)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	240	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	15.6	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	NEDU #206	Sampling Condition:	Cool & Intact
Project Number:	NEDU #206	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: W 4 (H210252-46)

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	02/03/2021	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	02/03/2021	ND	2.12	106	2.00	0.371	
Ethylbenzene*	<0.050	0.050	02/03/2021	ND	2.10	105	2.00	0.555	
Total Xylenes*	<0.150	0.150	02/03/2021	ND	6.62	110	6.00	0.992	
Total BTEX	<0.300	0.300	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	272	16.0	02/03/2021	ND	432	108	400	3.64	

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	02/03/2021	ND	176	87.8	200	7.93	
DRO >C10-C28*	10.3	10.0	02/03/2021	ND	168	84.2	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	02/03/2021	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Alake Corp Project Manager: Bruce Baker Address: 8 Ellison Lane City: Enice State: NM zip: 88231		P.O. #: Company: Alake Corp Attn: Bruce Baker														
Phone #: Fax #: Project #: Project Owner:		Address: City: State: Zip:														
Project Name: VEDU #206 Project Location: VEDU #206		Phone #: Fax #:														
Sampler Name: FOR LAB USE ONLY		BILL TO ANALYSIS REQUEST														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chlorides	TBT "Ext"	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
HA1055A	Composite 11	(G)	5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/1/21										
	Composite 12			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 13			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 14			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 15			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 16			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 17			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 18			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 19			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
	Composite 20			<input checked="" type="checkbox"/>	<input type="checkbox"/>											

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Relinquished By: <i>[Signature]</i>	Date: 2-1-21	Received By: <i>[Signature]</i>	Date: 2-1-21
Relinquished By: <i>[Signature]</i>	Date: 2-1-21	Received By: <i>[Signature]</i>	Date: 2-1-21

Delivered By: (Circle One) UPS - Bus - Other: Corrected Temp. °C **1.2**

Sample Condition: Cool Intact Yes No

Checked By: (Initials) **AB**

Turnaround Time: Standard Rush

Thermometer ID #113 Correction Factor None Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

REMARKS: **Notes: 1. 5 samples to King Hill. COM**
Larry Baker @ Alake Corp. Com

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Aracela Corp</u> Project Manager: <u>Bruce Baker</u> Address: <u>8 Ellison Lane</u> City: <u>Ciutice</u> State: <u>NM</u> zip: <u>88331</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Location: <u>VEDU# 206</u> Sampler Name: _____ FOR LAB USE ONLY		P.O. #: _____ Company: <u>Aracela Corp</u> Attn: <u>Bruce Baker</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H210252</u> Sample I.D. _____		BILL TO ANALYSIS REQUEST	
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 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: _____ Date: <u>2-1-21</u> Time: <u>10:55</u>		Received By: <u>Lawrence Walker</u> Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <u>1.2</u> Corrected Temp. °C _____		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: <u>AW</u> Turaround Time: _____ Standard <input checked="" type="checkbox"/> <u>Rush</u> Thermometer ID #113 <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Correction Factor None <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____		REMARKS: <u>Natalie @ Energy Storage LLC. Com</u> <u>Larry Baker @ Procter & Gamble</u>	
Matrix: <input checked="" type="checkbox"/> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____		DATE TIME <u>2/1/21</u>	
11 Composite 21 12 Composite 22 13 Composite 23 14 Composite 24 15 Composite 25 16 Composite 26 17 Composite 27 18 Composite 28 19 Composite 29 20 Composite 30		Chlorides "EXT" TPH BTEX	

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Arche Corp</u> Project Manager: <u>Bruce Baker</u>		P.O. #: _____ Company: <u>Arche Corp</u>	
Address: <u>8 Ellison Lane</u> City: <u>Essex</u> State: <u>NM</u> Zip: <u>89231</u>		Attn: <u>Bruce Baker</u> Address: _____ City: _____ State: _____ Zip: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: <u>Weldu # 202</u> Project Location: <u>Wickett 202</u>		Project Name: _____ Project Location: _____	
Sampler Name: _____		Sampler Name: _____	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	MATRIX						PRESERV		DATE	TIME	ANALYSIS REQUEST							
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			OTHER :	Chlorides	"EXT" TPH	BTex				
<u>H210252</u>																				
<u>21</u>	<u>ComPOSITE 31</u>	<u>G</u>									<u>2/11/21</u>									
<u>22</u>	<u>ComPOSITE 32</u>		X																	
<u>23</u>	<u>ComPOSITE 33</u>		X																	
<u>24</u>	<u>Com POSITIVE 34</u>		X																	
<u>25</u>	<u>Com POSITIVE 35</u>		X																	
<u>26</u>	<u>Com POSITIVE 36</u>		X																	
<u>27</u>	<u>Com POSITIVE 37</u>		X																	
<u>28</u>	<u>Com POSITIVE 38</u>		X																	
<u>29</u>	<u>Com POSITIVE 39</u>		X																	
<u>30</u>	<u>Com POSITIVE 40</u>		X																	

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Relinquished By: _____ Date: 2-1-21 Received By: Quiana Blackster Date: 1-25-21

Delivered By: (Circle One) _____ Observed Temp. °C: 1.2 Sample Condition: Intact Checked By: _____ (Initials) _____

Sampler - UPS - Bus - Other: _____ Corrected Temp. °C: _____ Cool Yes No Intact Yes No

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

REMARKS: Wickett 202 @ Energy Staffing LLC. com
Carry. Baker @ Phade Corp. com

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: APACHE CORP Project Manager: Bruce Baker		P.O. #: _____ Company: Apache Corp																	
Address: 8 Ellison Lane City: Farmize State: NM Zip: 88231		Attn: Bruce Baker Address: _____ City: _____ State: _____ Zip: _____																	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____																	
Project Name: Wash # 206 Project Location: Wash # 206 Sampler Name: _____																			
FOR LAB USE ONLY																			
Lab I.D. H410553 Sample I.D.	31 Composite 41	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	Fluorides	Ext TPH	BTEX								
	32 Composite 42																		
	33 Composite 43																		
	34 Composite 44																		
	35 Composite 45																		
	36 Composite 46																		
	37 Composite 47																		
	38 Composite 48																		
	39 Composite 49																		
	40 Composite 50																		

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 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: _____
 Date: **2-1-21**
 Time: **1:55**
 Received By: **Natasha de la Cruz**
 Date: _____
 Time: _____

Delivered By: (Circle One) UPS - Bus - Other: _____
 Observed Temp. °C: **1.2**
 Corrected Temp. °C: _____
 Sample Condition: Cool Intact
 Checked By: (Initials) **VB**
 Turnaround Time: _____
 Standard Bacteria (only) Sample Condition
 Thermometer ID #113 Cool Intact
 Correction Factor None Yes No Yes No
 Observed Temp. °C: _____
 Corrected Temp. °C: _____

REMARKS: **Natasha de la Cruz Energy Services LLC. Com 1 Larry Baker @ Apache Corp. Com 1**
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Arade Art</u> Project Manager: <u>Bruce Baker</u>		P.O. #: _____ Company: <u>Arade</u> Attn: <u>Bruce Baker</u>	
Address: <u>8 Ellis Lane Lovell</u> City: <u>Cur Nice</u> State: <u>VA</u> Zip: <u>22823</u>		Address: _____ City: _____ State: _____ Zip: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: <u>VEDU #206</u> Project Location: <u>VEDU #206</u>		State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Sampler Name: _____ FOR LAB USE ONLY		Matrix: _____ Preservation: _____ Sampling: _____	
Lab I.D. <u>H210252</u>	Sample I.D. <u>Composite 50</u>	(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	DATE _____ TIME _____ Chlorides _____ EXT TPH _____ Btex _____
411 Composite 50 412 Composite 50 443 B2.1 444 W2 445 W3 446 W4	C C C C C C	X X X X X X	X X X X X X

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 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: _____ Date: 2-1-21 Time: 16:55
 Received By: Jamara Clark Date: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C 1.2 Corrected Temp. °C _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition Cool Intact Yes No
 Checked By: (Initials) JD

Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Correction Factor None
 Bacteria (only) Sample Condition Cool Intact Yes No
 Observed Temp. °C _____ Corrected Temp. °C _____

REMARKS: Verbal @ ENergy Staffing LLC.com
Larry. Baker @ Arade Corp

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed: Please provide Email address: _____

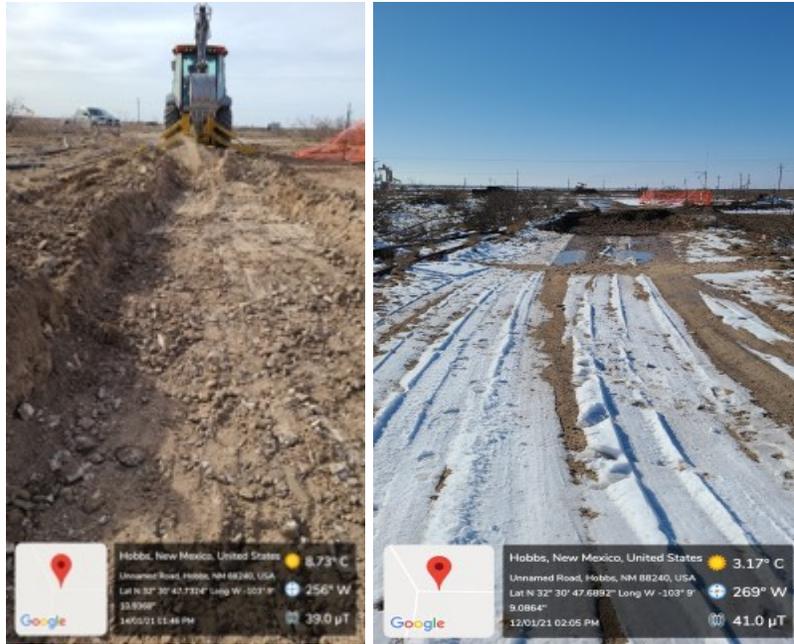
FORWARD: K-3-1-00704720

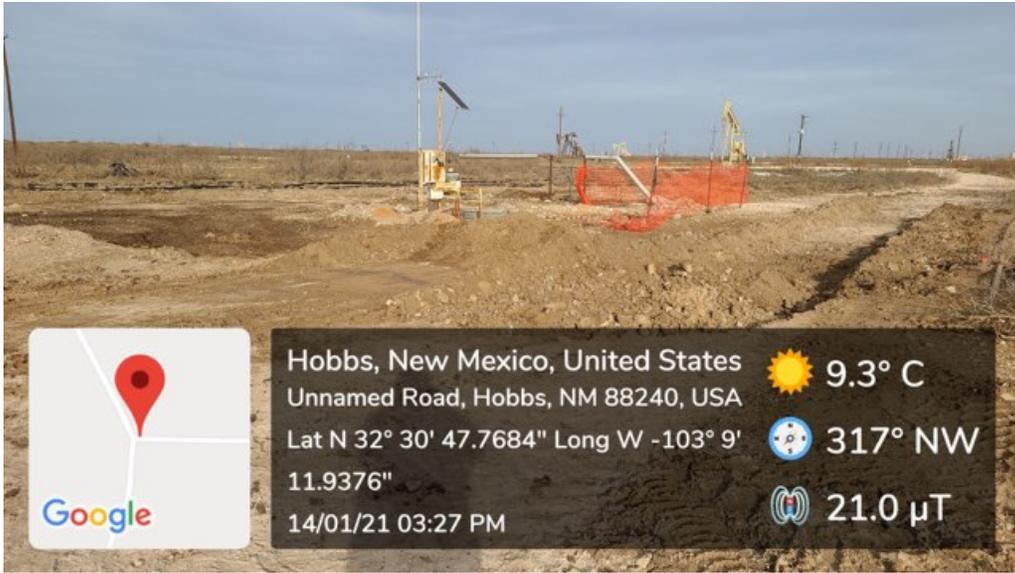
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



**NEDU #206
REMEDIATION PHOTOS**



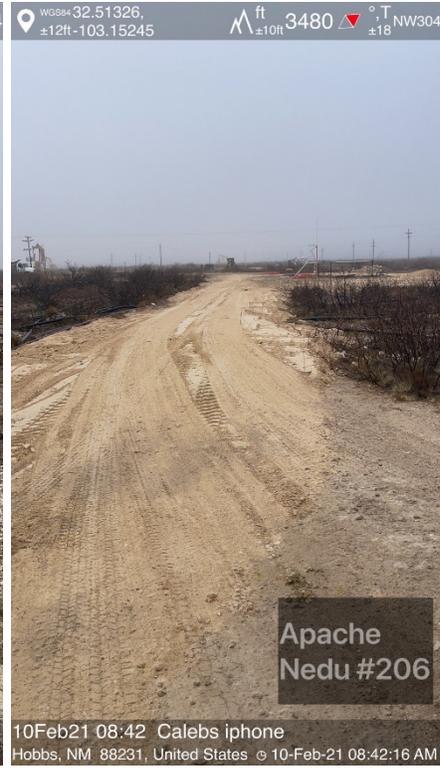


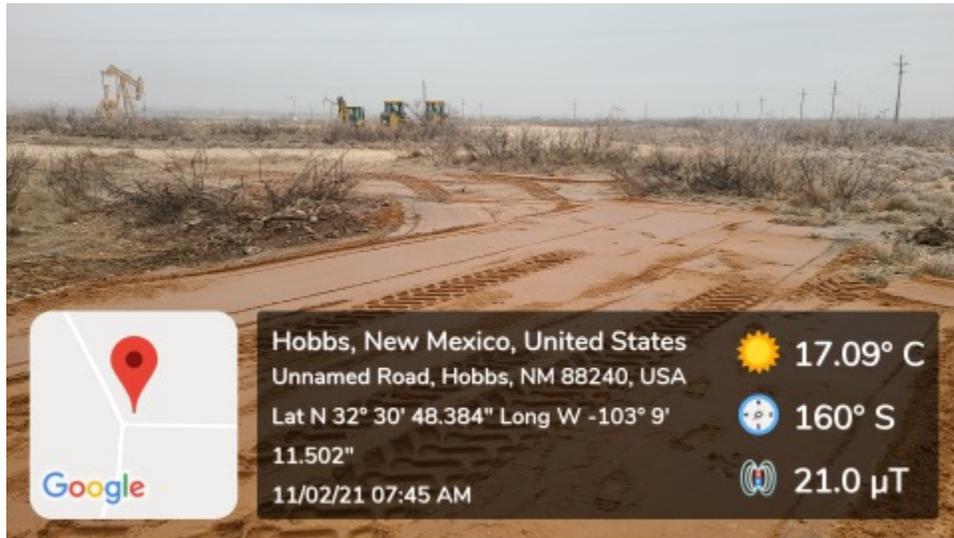


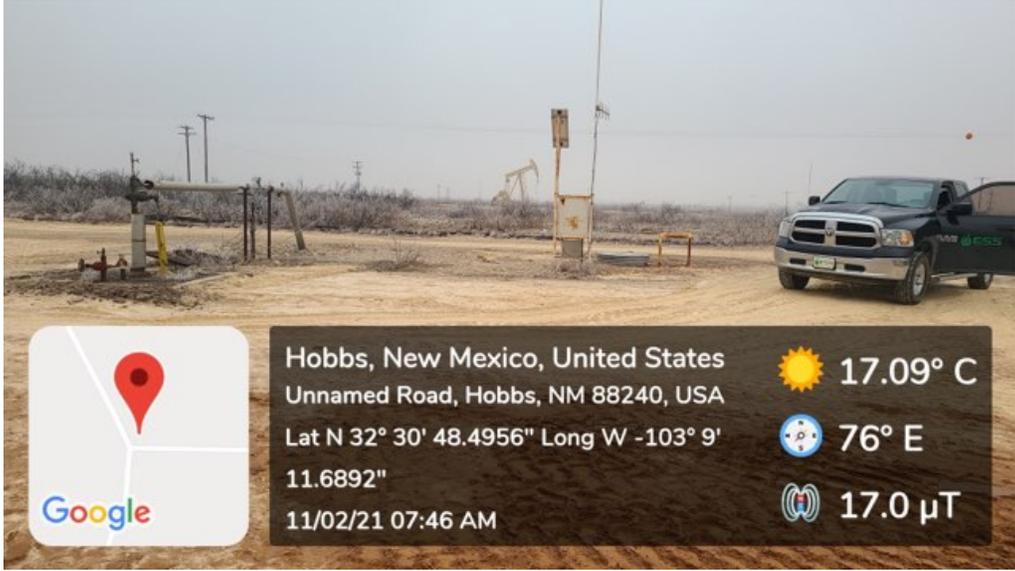


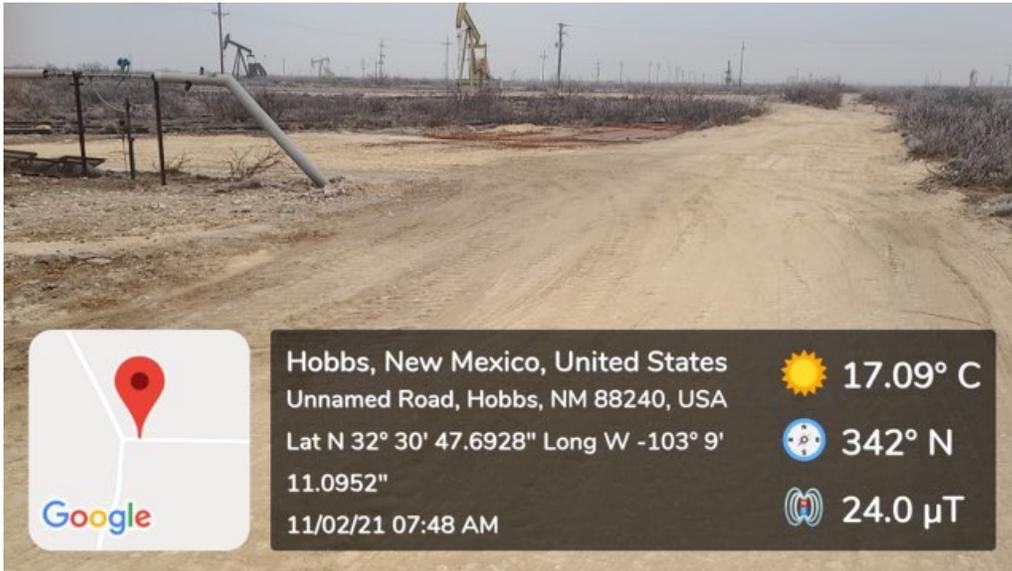
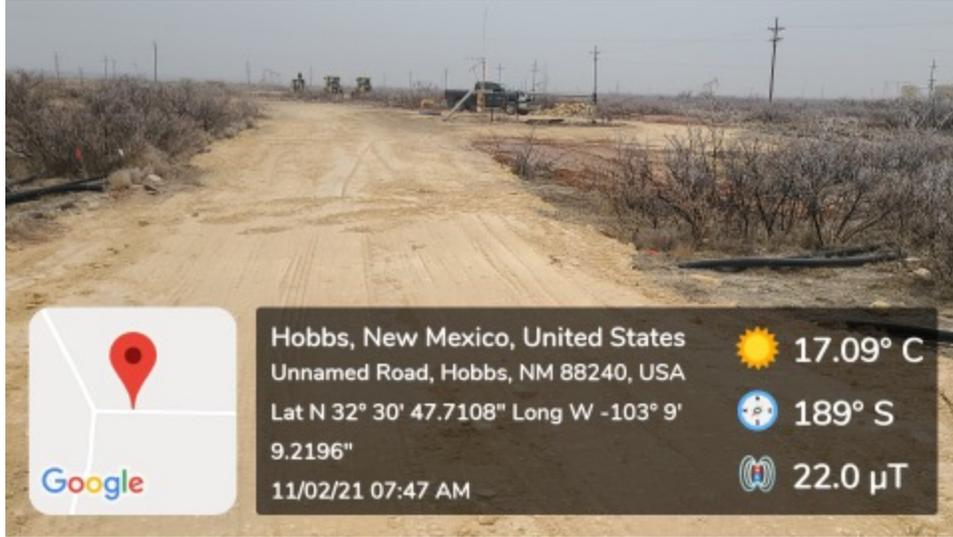
**NEDU #206
FINAL SITE PHOTOS**

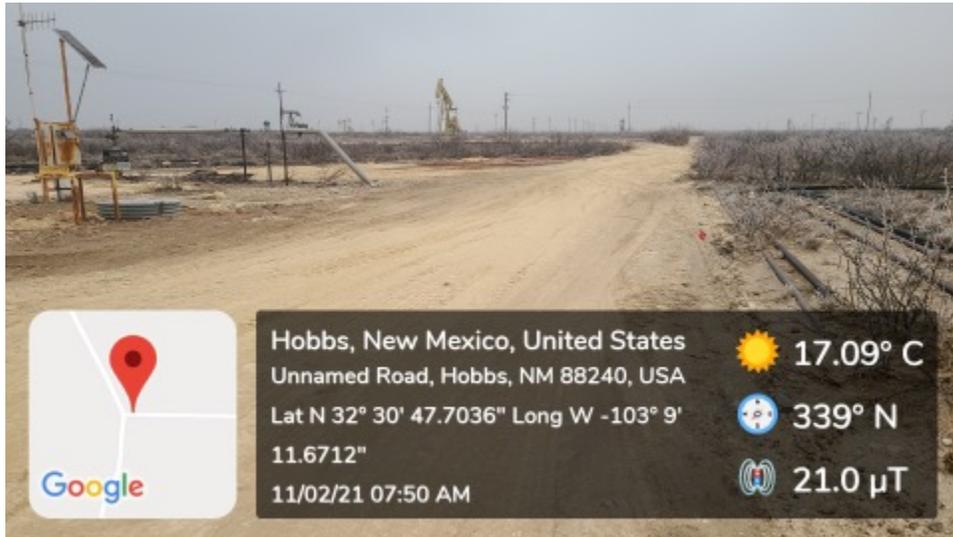














Incident ID	
District RP	
Facility ID	
Application ID	

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: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 2/11/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 03/29/2021

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: *Chad Hensley* Date: 03/29/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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

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

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

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

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

CONDITIONS

Action 17862

CONDITIONS OF APPROVAL

Operator: #1000 APACHE CORPORATION Midland, TX79705	303 Veterans Airpark Ln	OGRID: 873	Action Number: 17862	Action Type: C-141
OCD Reviewer chensley		Condition None		