



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

October 24, 2024

Re: NEDU 613  
Case nAPP240744539

On 03/07/2024 a release occurred due to corrosion on a 6" steel injection line. The release (GPS: 32.4802054, -103.1438498) is located north of Eunice, New Mexico in unit letter H section 15 township 19S range 36E. Using data collected from the closure reported submitted and closed by OCD 07/06/2022 for the NEDU 627 Pit 1RP-1357. The soil bores conducted in 2019 demonstrated the presence of no groundwater. A remediation plan was submitted and approved by OCD.

The release area was excavated to depths of 2 to 9 feet. All soil excavated (2,740 yards) was hauled to an OCD approved disposal facility. On 8/29/2024 final 5-point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once all laboratory analysis were below table one standards for the most stringent standards as requested by the NMSLO the excavation was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. Two backfill samples were collected and submitted to a commercial laboratory and tested for chloride, TPH, and BTEX. Both samples confirmed that the backfill material was clean. The disturbed area was reseeded in accordance with approved revegetation and noxious weed plan.

Apache Corporation has completed the remediation to the most stringent table one standards and respectfully request closure of the incident.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, Photos, and Reclamation Summary.

Submitted by.

*Larry Baker*

**Environmental Technician**  
larry.baker@apachecorp.com  
**Office # 432-818-1654**  
**Cell# 432-250-8384**

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 Specialist Sr.  
 Signature: Larry Baker Date: 10/24/2024  
 email: larry.baker@apachecorp.com Telephone: 432-250-8384

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**From:** [Velez, Nelson, EMNRD](#)  
**To:** [Baker, Larry](#)  
**Subject:** Re: [EXTERNAL] nAPP2407444539 Nedu 613 Extension Request.  
**Date:** Friday, September 6, 2024 8:50:04 AM  
**Attachments:** [Outlook-jlwpihuc.png](#)

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[Report Suspicious](#)

Good morning Bruce,

Thank you for the correspondence. Your 30-day time extension request is approved. Remediation Due date has been updated to October 7, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/ocd>



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**From:** Baker, Larry <Larry.Baker@apachecorp.com>  
**Sent:** Thursday, September 5, 2024 4:04 PM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Subject:** [EXTERNAL] nAPP2407444539 Nedu 613 Extension Request.

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

Mr. Velez,

Apache Corporation would like to request a 30-day extension. The majority of the release is excavated and remediated but several samples Laboratory results will require further excavation. Please let me know if you have any questions or wish to discuss.

**LARRY BRUCE BAKER, RSO**

ENVIRONMENTAL SPECIALIST SENIOR – U.S. ONSHORE OPERATIONS

APACHE LEGACY, SOUTHERN MIDLAND BASIN & DELAWARE BASIN

direct 432-818-1654 | mobile 432-250-8384 | office 2.080

[larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)

**APACHE CORPORATION**

303 Veterans Airpark Lane  
Midland, Texas 79705 U.S.A.

[ApacheCorp.com](http://ApacheCorp.com) | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Baker, Larry](#)  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 377373  
**Date:** Monday, August 26, 2024 8:59:07 AM

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To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2407444539.

The sampling event is expected to take place:

**When:** 08/28/2024 @ 09:00

**Where:** H-15-21S-37E 0 FNL 0 FEL (32.4802054,-103.1438498)

**Additional Information:** Joe Cell number 575-441-2661

**Additional Instructions:** GPS 32.4802054 -103.1438498

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

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**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Baker, Larry](#)  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 381954  
**Date:** Tuesday, September 10, 2024 8:14:24 AM

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To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2407444539.

The sampling event is expected to take place:

**When:** 09/12/2024 @ 08:00

**Where:** H-15-21S-37E 0 FNL 0 FEL (32.4802054,-103.1438498)

**Additional Information:** Joe- 575-441-2661

**Additional Instructions:** GPS-32.4802054 -103.1438498

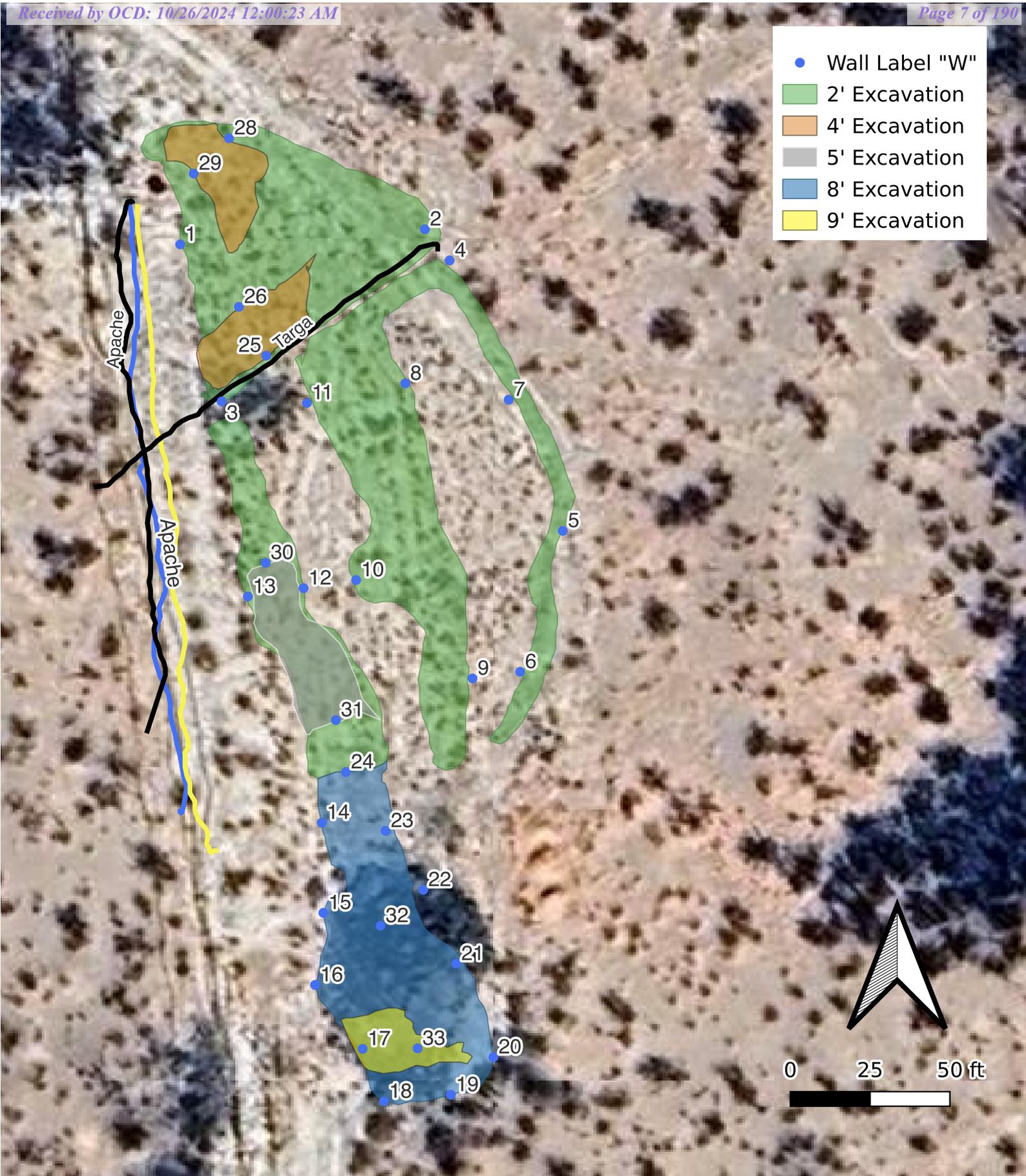
An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

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NEDU 613

Wall Sample Map



NEDU 613

Floor Sample Map

NEDU 613  
Wall Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE TYPE	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE ( mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE
W1	H245254-36	BGS 0-2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
W2	H245254-37	BGS 0-2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
W3	H245254-38	BGS 0-2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
W4	H245293-01	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
W5	H245293-02	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
W6	H245293-03	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
W7	H245293-04	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
W8	H245293-05	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
W9	H245293-06	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
W10	H245293-07	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
W11	H245292-08	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
W12	H245293-09	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
W13	H245293-10	BGS 0-2'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
W14	H245323-01	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
W15	H245323-02	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
W16	H245323-03	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
W17	H245323-04	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
W18	H245323-05	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
W19	H245323-06	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
W20	H245323-07	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
W21	H245323-08	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
W22	H245323-09	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
W23	H245323-10	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
W24	H245325-01	BGS 0-8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
W25	H245325-02	BGS 0-4'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
W26	H245325-03	BGS 0-4'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
W27	H245325-04	BGS 0-4'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
W28	H245557-15	BGS 2-4'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
W29	H245557-16	BGS 2-4'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
W30	H245557-17	BGS 2-5'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
W31	H245658-03	BGS 4-6'	COMP	9/17/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80
W31	H245557-18	BGS 4-5'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	656
W32	H245557-19	BGS 8-9'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
W33	H245557-20	BGS 8-9'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208

NEDU 613  
Floor Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE TYPE	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE ( mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE
B1	H245254-01	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	896
B1	H245557-10	6'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
B2	H245254-02	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
B3	H245254-03	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
B4	H245254-04	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
B5	H245254-05	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
B6	H245254-06	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	752
B6	H245557-01	4'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
B7	H245254-07	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
B8	H245254-08	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
B9	H245324-09	4'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
B10	H245254-09	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
B11	H245254-10	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
B12	H245254-11	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
B13	H245254-12	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
B14	H245254-13	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
B15	H245254-14	2'	COMP	8/28/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112



B66	H245324-01	8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
B67	H245292-27	8'	COMP	8/29/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
B68	H245324-02	8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
B69	H245324-03	8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
B70	H245324-04	8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
B71	H245324-05	8'	COMP	8/30/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
B72	H245557-02	1'	COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
B73	H245557-03		COMP	9/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272

NEDU 613  
Backfill Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE TYPE	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE ( mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE
BG1	H245426-01	Surface	COMP	9/9/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
BG2	H245426-02	Surface	COMP	9/9/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32

Floor Samples			
Number	Latitude	Longitude	Depth
1	32.4802233333333	-103.143791666667	2'
2	32.4802247760624	-103.143725667987	2'
3	32.4802133333333	-103.143688333333	2'
4	32.4801933333333	-103.143663333333	2'
5	32.4801735028628	-103.143706764974	2'
6	32.4801933333333	-103.143755	2'
7	32.480175	-103.143798333333	2'
8	32.480135	-103.143776666667	2'
9	32.4801622571955	-103.143750917014	4'
10	32.4800866666667	-103.143771666667	2'
11	32.4801	-103.143728333333	2'
12	32.4801216666667	-103.143698333333	2'
13	32.480135	-103.143671666667	2'
14	32.480155	-103.143641666667	2'
15	32.4801616666667	-103.14361	2'
16	32.4801266666667	-103.143593333333	2'
17	32.4800866666667	-103.143643333333	2'
18	32.48007	-103.143673333333	2'
19	32.4800433333333	-103.143708333333	4'
20	32.4800316666667	-103.14374	4'
21	32.480005	-103.143775	4'
22	32.480225	-103.143836666667	3'
23	32.4800883333333	-103.143585	2'
24	32.4800283333333	-103.143505	2'
25	32.4799066666667	-103.14344	2'
26	32.4797284683938	-103.14344343544	2'
27	32.4800283333333	-103.143646666667	2'
28	32.4799916666667	-103.143628333333	2'
29	32.4799583333333	-103.14362	2'
30	32.4799333333333	-103.143615	2'
31	32.4799	-103.143598333333	2'
32	32.47987	-103.143586666667	2'
33	32.4798066666667	-103.143616666667	2'
34	32.47983	-103.143576666667	2'
35	32.4797983333333	-103.143573333333	2'
36	32.479765	-103.143556666667	2'
37	32.4797286042589	-103.143544632384	2'
38	32.4796867667444	-103.143548047483	2'
39	32.4796471415271	-103.14354449519	2'
40	32.4799378883761	-103.143767212355	2'
41	32.479905	-103.14375	2'
42	32.4798783333333	-103.143741666667	2'
43	32.479855	-103.14374	2'
44	32.4798216666667	-103.143731666667	2'
45	32.4797866666667	-103.143723333333	2'
46	32.4797583333333	-103.143713333333	2'
47	32.479735	-103.143701666667	2'
48	32.4796933333333	-103.143676666667	2'
49	32.4796716666667	-103.143656666667	2'
50	32.4796233333333	-103.143651666667	2'
51	32.4795816666667	-103.143633333333	8'
71	32.479555	-103.143601666667	8'
52	32.47953	-103.143631666667	8'

Horizontal Samples		
Number	Y	X
1	32.47922138	-103.1435609
2	32.479885	-103.1434
3	32.48027992	-103.1437352
4	32.47974523	-103.1437551

70	32.4795	-103.143596666667	8'
53	32.4794954755565	-103.14363223878	8'
54	32.4794648035673	-103.143627612153	8'
69	32.47947	-103.143581666667	8'
55	32.4794337861301	-103.14362792068	8'
68	32.4794416666667	-103.143575	8'
67	32.479395	-103.143585	8'
56	32.4793966666667	-103.143625	8'
57	32.479355	-103.143628333333	8'
58	32.4793233333333	-103.143618333333	9'
59	32.479302395391	-103.143610041438	9'
66	32.4793766666667	-103.14355	8'
65	32.479345	-103.143571666667	8'
64	32.4793083333333	-103.143558333333	9'
63	32.4793783333333	-103.143525	8'
62	32.479315	-103.143511666667	8'
61	32.4792783333333	-103.143541666667	8'
60	32.4792733333333	-103.143595	8'
72	32.4800313029762	-103.143700587896	1'
73	32.4801032118482	-103.143583802268	

# NEDU 613 Final Excavation



# NEDU 613 Final Excavation



# NEDU 613 Backfill Completion





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

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September 04, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 08/28/24 16:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 1 @ 2' (H245254-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 2 @ 2' (H245254-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 3 @ 2' (H245254-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/30/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 4 @ 2' (H245254-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 5 @ 2' (H245254-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>480</b>	16.0	08/30/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 6 @ 2' (H245254-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 7 @ 2' (H245254-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/30/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 8 @ 2' (H245254-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 67.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 10 @ 2' (H245254-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/30/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 53.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.6 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 11 @ 2' (H245254-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	08/30/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 12 @ 2' (H245254-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 13 @ 2' (H245254-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 14 @ 2' (H245254-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 15 @ 2' (H245254-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.82	91.2	2.00	4.25	
Toluene*	<0.050	0.050	08/30/2024	ND	1.78	88.9	2.00	4.11	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.35	89.2	6.00	4.49	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 16 @ 2' (H245254-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2024	ND	1.82	91.2	2.00	4.25		
Toluene*	<0.050	0.050	08/31/2024	ND	1.78	88.9	2.00	4.11		
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.80	89.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.35	89.2	6.00	4.49		
Total BTEX	<0.300	0.300	08/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 17 @ 2' (H245254-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	QM-07
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	QM-07
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	QM-07
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	QM-07
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 18 @ 2' (H245254-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 22 @ 3' (H245254-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 57.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 23 @ 2' (H245254-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 24 @ 2' (H245254-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	206	103	200	1.77	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	204	102	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 25 @ 2' (H245254-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 26 @ 2' (H245254-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 27 @ 2' (H245254-23)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 28 @ 2' (H245254-24)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 29 @ 2' (H245254-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 30 @ 2' (H245254-26)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 31 @ 2' (H245254-27)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 32 @ 2' (H245254-28)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 33 @ 2' (H245254-29)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 34 @ 2' (H245254-30)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 35 (H245254-31)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 36 (H245254-32)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 37 (H245254-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 38 (H245254-34)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848		
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 39 (H245254-35)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.80	89.9	2.00	0.848	
Toluene*	<0.050	0.050	08/30/2024	ND	1.72	86.1	2.00	0.343	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.75	87.3	2.00	0.667	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.19	86.5	6.00	1.04	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 1 BGS 0-2' (H245254-36)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.08	104	2.00	5.44	
Toluene*	<0.050	0.050	08/30/2024	ND	1.95	97.5	2.00	6.03	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.98	99.2	2.00	8.43	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.10	102	6.00	8.83	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 2 BGS 0-2' (H245254-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.08	104	2.00	5.44	
Toluene*	<0.050	0.050	08/30/2024	ND	1.95	97.5	2.00	6.03	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.98	99.2	2.00	8.43	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.10	102	6.00	8.83	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 59.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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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:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 3 BGS 0-2' (H245254-38)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.11	106	2.00	1.40	
Toluene*	<0.050	0.050	08/30/2024	ND	2.21	110	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.42	121	2.00	1.15	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	7.01	117	6.00	0.420	
Total BTEX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	183	91.6	200	7.07	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	187	93.7	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache
Project Manager: Bruce Baker
Address: Hobbs NM Zip: 88240
Project Name: NEDA 613
Sampler Name: Jose Queral

Table with columns: Lab I.D., Sample I.D., MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), and analysis columns (C1, BTEX, etc.).

RELEASE 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.

Relinquished By: Jose Queral
Received By: Aponas
Date: 8/28/24
Time: 11:54
Observed Temp: 0.4c
Corrected Temp: 1.0c
Sample Condition: Cool Intact
Checked By: AD
Turnaround Time: Standard
Bacteria (only) Sample Condition: Cool Intact

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <i>Apac</i>		<b>BILL TO</b>			<b>ANALYSIS REQUEST</b>																			
Project Manager: <i>Brae Baker</i>		P.O. #:																						
Address:		Company:																						
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name:		State: Zip:																						
Project Location: <i>NEDU 613</i>		Phone #:																						
Sampler Name: <i>Sose</i>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX												PRESERV.	SAMPLING								
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<i>11245724</i>										<input checked="" type="checkbox"/>														
<i>11</i>	<i>B12 @ 2'</i>	<i>C 1</i>										<i>8/28/24</i>	<i>11:02</i>	<i>BTLEY</i>										
<i>12</i>	<i>B13 @ 2'</i>	<i>C 1</i>											<i>11:04</i>	<i>EX-TPH</i>										
<i>13</i>	<i>B14 @ 2'</i>	<i>C 1</i>											<i>11:06</i>											
<i>14</i>	<i>B15 @ 2'</i>	<i>C 1</i>											<i>11:08</i>											
<i>15</i>	<i>B16 @ 2'</i>	<i>C 1</i>											<i>11:10</i>											
<i>16</i>	<i>B17 @ 2'</i>	<i>C 1</i>											<i>11:12</i>											
<i>17</i>	<i>B18 @ 2'</i>	<i>C 1</i>											<i>11:14</i>											
<i>18</i>	<i>B22 @ 3'</i>	<i>C 1</i>											<i>11:16</i>											
<i>19</i>	<i>B23 @ 2'</i>	<i>C 1</i>											<i>3:16</i>											
<i>20</i>	<i>B24 @ 2'</i>	<i>C 1</i>											<i>3:18</i>											

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Relinquished By: <i>Sose</i>	Date: <i>8/28/24</i>	Received By: <i>Apac</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
Time:			All Results are emailed. Please provide Email address: <i>sq@21052@gmail.com</i>		
Relinquished By:	Date: <i>8-28-24</i>	Received By:	<i>L Baker, Yescenia Ledezman Baker nm.com</i>		
Time: <i>10:50</i>			REMARKS: <i>E-mail Results</i>		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <i>-0.4c</i>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>AP</i>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
	Corrected Temp. °C: <i>-1.0c</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No
				Correction Factor -0.6°C	<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

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









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

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September 04, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 40 @ 2' (H245292-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 41 @ 2' (H245292-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 42 @ 2' (H245292-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 43 @ 2' (H245292-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 44 @ 2' (H245292-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 45 @ 2' (H245292-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 46 @ 2' (H245292-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 47 @ 2' (H245292-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	200	100	200	3.98	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	210	105	200	7.49	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 48 @ 2' (H245292-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 49 @ 2' (H245292-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 50 @ 2' (H245292-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 51 @ 8' (H245292-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 52 @ 8' (H245292-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 53 @ 8' (H245292-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 54 @ 8' (H245292-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 55 @ 8' (H245292-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 56 @ 8' (H245292-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 57 @ 8' (H245292-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 58 @ 8' (H245292-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 59 @ 8' (H245292-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.96	98.1	2.00	7.12	
Toluene*	<0.050	0.050	08/31/2024	ND	1.99	99.4	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.99	99.5	2.00	7.44	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.15	102	6.00	7.00	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 60 @ 8' (H245292-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 61 @ 8' (H245292-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 62 @ 8' (H245292-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 63 @ 8' (H245292-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 64 @ 8' (H245292-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 65 @ 8' (H245292-26)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 67 @ 8' (H245292-27)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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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: <i>Apache</i>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <i>Bruce Baker</i>		P.O. #:																							
Address:		Company:																							
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																							
Phone #: Fax #:		Address:																							
Project #: Project Owner:		City:																							
Project Name:		State: Zip:																							
Project Location: <i>DEOU 613</i>		Phone #:																							
Sampler Name: <i>Jose Quezada</i>		Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
<i>N245297</i>											<input checked="" type="checkbox"/>		<i>8/29</i>	<i>11:54</i>	<i>el</i>	<i>BTEX</i>	<i>EXT TPH</i>								
<i>1</i>	<i>B40 @2'</i>	<i>C</i>	<i>1</i>											<i>11:56</i>											
<i>2</i>	<i>B41 @2'</i>	<i>C</i>	<i>1</i>											<i>11:58</i>											
<i>3</i>	<i>B42 @2'</i>	<i>C</i>	<i>1</i>											<i>12:00</i>											
<i>4</i>	<i>B43 @2'</i>	<i>C</i>	<i>1</i>											<i>12:02</i>											
<i>5</i>	<i>B44 @2'</i>	<i>C</i>	<i>1</i>											<i>12:04</i>											
<i>6</i>	<i>B45 @2'</i>	<i>C</i>	<i>1</i>											<i>12:06</i>											
<i>7</i>	<i>B46 @2'</i>	<i>C</i>	<i>1</i>											<i>12:09</i>											
<i>8</i>	<i>B47 @2'</i>	<i>C</i>	<i>1</i>											<i>12:10</i>											
<i>9</i>	<i>B48 @2'</i>	<i>C</i>	<i>1</i>											<i>12:12</i>											
<i>10</i>	<i>B49 @2'</i>	<i>C</i>	<i>1</i>																						

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Relinquished By: <i>Jose Quezada</i>	Date: <i>8/29/24</i>	Received By: <i>APARAS</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <i>jq 821052@gmail.com</i>
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <i>L. Baker, jessuek@diamondbacknm.com</i>	
Delivered By: (Circle One)	Observed Temp. °C: <i>0.0c</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Checked By: (Initials) <i>AD</i>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <i>-0.0c</i>	Bacteria (only) Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #140 Correction Factor -0.6°C	Sample Condition Observed Temp. °C Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																						
Project Manager: <i>Bruce Baker</i>		P.O. #:																										
Address:		Company:																										
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																										
Phone #: Fax #:		Address:																										
Project #: Project Owner:		City:																										
Project Name:		State: Zip:																										
Project Location: <i>NEDU 613</i>		Phone #:																										
Sampler Name: <i>Jose Quevedo</i>		Fax #:																										
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (Q)UMP	# CONTAINERS	MATRIX			PRESERV.		SAMPLING																		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
	<i>H2US202</i>	<i>B5008</i>	<i>C</i>	<i>1</i>			<i>1</i>					<i>✓</i>		<i>4/29</i>	<i>12:12</i>	<i>1</i>	<i>1</i>	<i>1</i>										

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Relinquished By: <i>Jose Quevedo</i>		Date: <i>8/29/24</i>	Received By: <i>Apache</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <i>9821052 @gmail.com</i>		
Relinquished By:		Time: <i>10:50</i>	Received By:		All Results are emailed. Please provide Email address: <i>L.Baker, lresena@demondbakerm.com</i>				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date:	Time:		REMARKS: <i>E-Mail Results</i>				
Observed Temp. °C: <i>0.0</i>		Sample Condition: Cool Intact		CHECKED BY: (Initials) <i>AP</i>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition	
Corrected Temp. °C: <i>-0.0</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140 Correction Factor -0.6°C		<input type="checkbox"/> Yes <input type="checkbox"/> No	

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache
Project Manager: Bruce Baker
Address: Hobbs
City: Hobbs State: NM Zip: 88240
Project Name: NEDU 613
Project Location:
Sampler Name: Joe Baker

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. Includes handwritten entries like 'CL', 'BTEX', 'EXT TPA' and a list of samples from 12 to 21.

FOR LAB USE ONLY table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP, # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME).

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.

Relinquished By: [Signature] Date: 8/29/24
Received By: [Signature] Date: 10/50
Delivered By: (Circle One) Observed Temp. 0.0 C
Sample Condition Cool Intact [X] Yes [ ] No
CHECKED BY: [Signature]
Turnaround Time: Standard [X] Rush [ ]
Bacteria (only) Cool Intact [ ] Yes [ ] No

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache
Project Manager: Bruce Baker
Address: Hobbs NM Zip: 88240
Project Name: NEDU 613
Sampler Name: Jose...
BILL TO: P.O. #, Company, Attn, Address, City, State, Zip, Phone #, Fax #
ANALYSIS REQUEST: Matrix (Groundwater, Wastewater, Soil, Oil, Sludge, Other), Preserv. (Acid/Base, Ice/Cool, Other), Sampling (Date, Time)

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.

Relinquished By: Jose... Date: 8/29/24 Time: 16:41
Received By: [Signature] Date: 10/5/24 Time:
Verbal Result: [ ] Yes [ ] No Add'l Phone #: 505-821-0522
REMARKS: E-mail Results
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: 0.0°C Sample Condition: Cool intact [X] Yes [ ] No
CHECKED BY: (Initials) PP
Turnaround Time: Standard [X] Rush [ ]
Bacteria (only) Sample Condition: Cool intact [ ] Yes [ ] No Observed Temp. °C: Corrected Temp. °C:

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



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

---

September 04, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 4 BGS 0-2' (H245293-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	208	104	200	2.12	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	213	107	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 5 BGS 0-2' (H245293-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 6 BGS 0-2' (H245293-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30		
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68		
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55		
Total BTEX	<0.300	0.300	08/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714		
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83		
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND						

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 7 BGS 0-2' (H245293-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30		
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68		
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55		
Total BTEX	<0.300	0.300	08/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714		
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83		
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND						

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 8 BGS 0-2' (H245293-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30		
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68		
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55		
Total BTEX	<0.300	0.300	08/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714		
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83		
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND						

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 9 BGS 0-2' (H245293-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 63.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 10 BGS 0-2' (H245293-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 11 BGS 0-2' (H245293-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30	
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55	
Total BTEX	<0.300	0.300	08/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 12 BGS 0-2' (H245293-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30		
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68		
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55		
Total BTEX	<0.300	0.300	08/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714		
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83		
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND						

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	08/29/2024	Sampling Date:	08/29/2024
Reported:	09/04/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 13 BGS 0-2' (H245293-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2024	ND	1.90	95.0	2.00	5.30		
Toluene*	<0.050	0.050	08/31/2024	ND	1.84	92.2	2.00	5.68		
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	1.85	92.6	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/31/2024	ND	5.51	91.9	6.00	5.55		
Total BTEX	<0.300	0.300	08/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714		
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83		
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND						

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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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: <b>Apache</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>							
Project Manager: <b>Bruce Baker</b>		P.O. #:									
Address:		Company:									
City: <b>Hobbs</b>	State: <b>NM</b> Zip: <b>88240</b>	Attn:									
Phone #:	Fax #:	Address:									
Project #:	Project Owner:	City:									
Project Name:		State: Zip:									
Project Location: <b>NEOU 613</b>		Phone #:									
Sampler Name: <b>Jose Quezada</b>		Fax #:									

Lab I.D.	Sample I.D.	G/RAB OR(C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	C	BTEV	EXT TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
1245293	W4 BGS0-2'	C	1							✓		8/29	9:42				
1	W5 BGS0-2'	C	1										9:44				
2	W6 BGS0-2'	C	1										9:46				
3	W7 BGS0-2'	C	1										9:48				
4	W8 BGS0-2'	C	1										9:50				
5	W9 BGS0-2'	C	1										9:52				
6	W10 BGS0-2'	C	1										9:54				
7	W11 BGS0-2'	C	1										9:56				
8	W12 BGS0-2'	C	1										9:58				
10	W13 BGS0-2'	C	1										10:00				

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Relinquished By: <b>Jose Quezada</b>	Date: <b>8/29/24</b>	Received By: <b>Apache</b>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <b>jq221052@gmail.com</b>
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <b>L Baker, jesevial@diamondbatnm.com</b>	
Delivered By: (Circle One)	Observed Temp. °C: <b>0.0c</b>	Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <b>JP</b>	REMARKS: <b>E-Mail Results</b>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <b>-0.1c</b>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	Thermometer ID #140	Bacteria (only) Sample Condition: <input type="checkbox"/> Yes <input type="checkbox"/> No
			Correction Factor <b>-0.6°C</b>	Cool Intact Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No
				Corrected Temp. °C:

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



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

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September 05, 2024

BRUCE BAKER  
APACHE CORP - HOBBS  
2350 W. MARLAND BLVD.  
HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 16:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 14 BGS 0-8' (H245323-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.19	109	2.00	0.826	
Toluene*	<0.050	0.050	09/04/2024	ND	2.23	111	2.00	0.974	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.22	111	2.00	1.01	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.82	114	6.00	0.603	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	208	104	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	233	117	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 15 BGS 0-8' (H245323-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 16 BGS 0-8' (H245323-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 17 BGS 0-8' (H245323-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 18 BGS 0-8' (H245323-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 19 BGS 0-8' (H245323-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 20 BGS 0-8' (H245323-07)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 21 BGS 0-8' (H245323-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 22 BGS 0-8' (H245323-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 23 BGS 0-8' (H245323-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Bruce Baker</u>		P.O. #:													
Address:		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: Fax #:		Address:													
Project #: Project Owner:		City:													
Project Name:		State: Zip:													
Project Location: <u>NEDA 613</u>		Phone #:													
Sampler Name: <u>Jose Rivera</u>		Fax #:													

FOR LAB USE ONLY		G/RAB OR COMB	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	C1	BTEX	EXT PH
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
<u>1215323</u>									<input checked="" type="checkbox"/>				<u>6/30</u>	<u>1:46</u>				
<u>1</u>	<u>W14 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>1:48</u>				
<u>2</u>	<u>W15 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>1:50</u>				
<u>3</u>	<u>W16 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>1:52</u>				
<u>4</u>	<u>W17 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>1:54</u>				
<u>5</u>	<u>W18 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>1:56</u>				
<u>6</u>	<u>W19 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>1:58</u>				
<u>7</u>	<u>W20 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>2:00</u>				
<u>8</u>	<u>W21 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>2:02</u>				
<u>9</u>	<u>W22 BGS0-8'</u>	<u>(</u>	<u>1</u>											<u>2:04</u>				
<u>10</u>	<u>W23 BGS0-8'</u>	<u>(</u>	<u>1</u>															

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Relinquished By: <u>Jose Rivera</u>	Date: <u>6/30/24</u>	Received By: <u>ADAMAS</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <u>575-821052@gmail.com</u>
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <u>L. Baker - yesenia.l@domandbecknm.com</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>5.0°C</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	REMARKS: <u>E-mail results</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>5.0°C</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
		CHECKED BY: (Initials) <u>AP</u>	Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact
			Thermometer ID #140 Correction Factor -0.6°C
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> No <input type="checkbox"/> No



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

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September 05, 2024

BRUCE BAKER  
APACHE CORP - HOBBS  
2350 W. MARLAND BLVD.  
HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 16:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 66 @ 8' (H245324-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 68 @ 8' (H245324-02)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 69 @ 8' (H245324-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 70 @ 8' (H245324-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 71 @ 8' (H245324-05)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 19 @ 4' (H245324-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 20 @ 4' (H245324-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 21 @ 4' (H245324-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 9 @ 4' (H245324-09)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Bruce Baker</u>		P.O. #:													
Address:		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: Fax #:		Address:													
Project #: Project Owner:		City:													
Project Name:		State: Zip:													
Project Location: <u>NEO 4613</u>		Phone #:													
Sampler Name: <u>Sore Quail</u>		Fax #:													

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	C1	BTEX	EPTM
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<u>1205324</u>	<u>B66 08'</u>	<u>C</u>	<u>1</u>						<u>✓</u>			<u>1/36</u>	<u>1:36</u>				
<u>2</u>	<u>B68 08'</u>	<u>C</u>	<u>1</u>										<u>1:38</u>				
<u>3</u>	<u>B69 08'</u>	<u>C</u>	<u>1</u>										<u>1:40</u>				
<u>4</u>	<u>B70 08'</u>	<u>C</u>	<u>1</u>										<u>1:42</u>				
<u>5</u>	<u>B71 08'</u>	<u>C</u>	<u>1</u>										<u>1:44</u>				
<u>6</u>	<u>B19 04'</u>	<u>C</u>	<u>1</u>										<u>2:12</u>				
<u>7</u>	<u>B20 04'</u>	<u>C</u>	<u>1</u>										<u>2:14</u>				
<u>8</u>	<u>B21 04'</u>	<u>C</u>	<u>1</u>										<u>2:16</u>				
<u>9</u>	<u>B9 04'</u>	<u>C</u>	<u>1</u>										<u>4:10</u>				
<u>10</u>	<u>ADS 3024</u>	<u>C</u>	<u>1</u>														

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Relinquished By: <u>Sore Quail</u>	Date: <u>1/30/24</u>	Received By: <u>Adrianas</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <u>505 8210520 gma@icm</u>
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <u>L. Baker, yves@icm.com</u>	
Delivered By: (Circle One)	Observed Temp. °C: <u>5.0</u>	Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: <u>E-mail results</u>	
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>5.0</u>	CHECKED BY: (Initials) <u>AD</u>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #140	Observed Temp. °C
			Correction Factor -0.6°C	Corrected Temp. °C



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

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September 05, 2024

BRUCE BAKER  
APACHE CORP - HOBBS  
2350 W. MARLAND BLVD.  
HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 16:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 24 BGS 0-8' (H245325-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 25 BGS 0-4' (H245325-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.42	121	2.00	11.2	
Toluene*	<0.050	0.050	09/04/2024	ND	2.48	124	2.00	12.5	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.70	135	2.00	14.0	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	7.85	131	6.00	15.8	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	222	111	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	230	115	200	5.95	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 26 BGS 0-4' (H245325-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2024	ND	1.89	94.5	2.00	1.96	
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36	
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31	
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43	
Total BTEX	<0.300	0.300	09/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	203	101	200	3.55	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	205	102	200	5.25	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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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:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/05/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 27 BGS 0-4' (H245325-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2024	ND	1.89	94.5	2.00	1.96	
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36	
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31	
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43	
Total BTEX	<0.300	0.300	09/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/03/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2024	ND	203	101	200	3.55	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	205	102	200	5.25	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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: *Apex*  
 Project Manager: *Bruce Baker*  
 Address:  
 City: *Hobbs* State: *NM* Zip: *88240*  
 Phone #: Fax #:  
 Project #: Project Owner:  
 Project Name:  
 Project Location: *REDU 613*  
 Sampler Name: *Sose R...*

**BILL TO**  
 P.O. #:  
 Company:  
 Attn:  
 Address:  
 City:  
 State: Zip:  
 Phone #:  
 Fax #:

ANALYSIS REQUEST	
DATE	TIME
<i>8/30</i>	<i>2:06</i>
	<i>2:15</i>
	<i>2:20</i>
	<i>4:12</i>

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER	DATE
<i>H21 5335</i>	<i>W24 BG50-8'</i>	<i>C</i>	<i>1</i>						<i>ICE / COOL</i> <input checked="" type="checkbox"/>		
<i>3</i>	<i>W25 BG50-4'</i>	<i>C</i>	<i>1</i>								
<i>4</i>	<i>W26 BG50-4'</i>	<i>C</i>	<i>1</i>								
	<i>W27 BG50-4'</i>	<i>C</i>	<i>1</i>								

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Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  
 Observed Temp. °C: *5.0*  
 Corrected Temp. °C: *5.0*  
 Sample Condition:  
 Cool Intact  Yes  No  
 Checked By: (Initials) *AP*

Received By: *apawes*  
 Date: *8/30/21*  
 Time: *10:51*  
 Verbal Result:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address: *58821052@gmail.com*  
 REMARKS: *E-mail Results*  
 Turnaround Time:  Standard  Rush  
 Thermometer ID #140 Correction Factor -0.6°C  
 Bacteria (only) Sample Condition:  
 Cool Intact  Yes  No  
 Observed Temp. °C  
 Corrected Temp. °C

† Cardinal cannot accept temperature changes. Please email changes to celey.keene@cardinal.com



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

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September 13, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 6 @ 4' (H245557-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	QM-07
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 72 @ 1' (H245557-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 73 (H245557-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 45 @ 5' (H245557-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 46 @ 5' (H245557-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 47 @ 5' (H245557-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 48 @ 5' (H245557-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 49 @ 5' (H245557-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>640</b>	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 50 @ 4' (H245557-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 1 @ 6' (H245557-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 55 @ 9' (H245557-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 58 @ 9' (H245557-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/13/2024	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	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 59 @ 9' (H245557-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 64 @ 9' (H245557-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 28 BGS 2-4' (H245557-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10		
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60		
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND						

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 29 BGS 2-4' (H245557-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 30 BGS 2-5' (H245557-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 31 BGS 4-5' (H245557-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60		
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND						

Surrogate: 1-Chlorooctane 163 % 48.2-134

Surrogate: 1-Chlorooctadecane 189 % 49.1-148

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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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 32 BGS 8-9' (H245557-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: W 33 BGS 8-9' (H245557-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.07	104	2.00	8.10	
Toluene*	<0.050	0.050	09/13/2024	ND	2.01	100	2.00	8.80	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.04	101	6.00	9.03	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	212	106	200	3.60	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	99.9	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <u>Bruce Baker</u>		P.O. #:							
Address:		Company:							
City: <u>Hobbs</u>	State: <u>NM</u> Zip: <u>88240</u>	Attn:							
Phone #:	Fax #:	Address:							
Project #:	Project Owner:	City:							
Project Name:		State: Zip:							
Project Location: <u>NEED 613</u>		Phone #:							
Sampler Name: <u>Julio Rivera</u>		Fax #:							

FOR LAB USE ONLY		GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	CI	BTEX	EOT/TPH
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<u>H245557</u>																	
1	<u>B36e4'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>	<u>✓</u>		<u>7/12</u>	<u>9:00</u>				
2	<u>B72e1'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>8:34</u>				
3	<u>B73</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>8:36</u>				
4	<u>B45e5'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>9:24</u>				
5	<u>B46e5'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>9:26</u>				
6	<u>B47e5'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>9:28</u>				
7	<u>B48e5'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>9:30</u>				
8	<u>B49e5'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>9:32</u>				
9	<u>B50e4'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>9:34</u>				
10	<u>B1e6'</u>	<u>C</u>	<u>1</u>			<u>1</u>			<u>1</u>				<u>10:05</u>				

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Relinquished By: <u>Julio Rivera</u>	Date: <u>7/12/24</u>	Received By: <u>A. Baker</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>4:10</u>			All Results are emailed. Please provide Email address: <u>39821052@gmail.com</u>
Relinquished By: <u>Julio Rivera</u>	Date: <u>9-12-24</u>	Received By: <u>A. Baker</u>	REMARKS: <u>L. Baker, yosena L &amp; Diamond Back NM. Com</u>
Time: <u>10:00</u>			<u>Email Results 24 Hr</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <u>22.0</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>AD</u>
	Corrected Temp. °C: <u>16.0</u>	<input type="checkbox"/> No <input type="checkbox"/> No	Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush
FORM-008 R 3.3 06/03/24			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #140 Correction Factor: -0.6°C <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>Apache</i>	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>											
Project Manager: <i>Bruce Baker</i>		P.O. #:											
Address:		Company:											
City: <i>Hobbs</i> State: <i>nm</i> Zip: <i>88240</i>		Attn:											
Phone #: Fax #:		Address:											
Project #: Project Owner:		City:											
Project Name:		State: Zip:											
Project Location: <i>NEDU 613</i>		Phone #:											
Sampler Name: <i>Julio M. Rivera</i>	Fax #:												

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	C1	BTEX	EXT TPH
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
<i>H245557</i>																		
<i>11</i>	<i>B55 @ 9'</i>	<i>1</i>	<i>1</i>						<i>✓</i>			<i>11/2</i>	<i>10:08</i>					
<i>12</i>	<i>B58 @ 9'</i>	<i>1</i>	<i>1</i>										<i>10:07</i>					
<i>13</i>	<i>B59 @ 9'</i>	<i>1</i>	<i>1</i>										<i>10:14</i>					
<i>14</i>	<i>B64 @ 9'</i>	<i>1</i>	<i>1</i>										<i>10:10</i>					

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Relinquished By: <i>Julio Rivera</i>	Date: <i>9/2/24</i>	Received By: <i>Apache</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>4:10</i>			All Results are emailed. Please provide Email address: <i>js821052@gmail.com</i>	
Relinquished By:	Date: <i>9/12/24</i>	Received By:	REMARKS: <i>L. Baker, yvesenia.Lodron@becknm.com</i>	
Time: <i>10:10</i>			<i>E-mail Results 24hr</i>	
Delivered By: (Circle One)	Observed Temp. °C: <i>2.2</i>	Sample Condition	CHECKED BY: (Initials) <i>AD</i>	Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> <b>Rush</b>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <i>1.0</i>	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		<input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Cool <input type="checkbox"/> Intact
		<input type="checkbox"/> No <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No
				Observed Temp. °C
				Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: Bruce Baker		P.O. #:													
Address:		Company:													
City: Hobbs	State: NM Zip: 88240	Attn:													
Phone #:	Fax #:	Address:													
Project #:	Project Owner:	City:													
Project Name:		State: Zip:													
Project Location: NEQU 619		Phone #:													
Sampler Name: Julio M Rivera		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	DATE	TIME		
H245557											✓				
15	W 28 BGS 2-4'											9/12	8:30	C/ BTEX COT TPH	
16	W 29 BGS 2-4'												8:32		
17	W 30 BGS 2-5'												9:38		
18	W 31 BGS 4-5'												9:40		
19	W 32 BGS 8-9'												10:06		
20	W 33 BGS 8-9'												10:12		

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Relinquished By: Julio Rivera	Date: 9/12/24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
Time: 4:10			All Results are emailed. Please provide Email address: jg821052@gmail.com		
Relinquished By: [Signature]	Date: 9/12/24	Received By: [Signature]	REMARKS: E-mail Results 24hr		
Time: 9:14:10					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 22.2	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No
Corrected Temp. °C: 10.0		<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No
				Correction Factor -0.6°C	Corrected Temp. °C:

Cardinal will not accept verbal changes. Please email changes to celia.kneer@cardinallabsnm.com



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

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September 18, 2024

BRUCE BAKER  
APACHE CORP - HOBBS  
2350 W. MARLAND BLVD.  
HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 16:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	09/17/2024	Sampling Date:	09/17/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	NEDU #613	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: B 45 @ 6' (H245658-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	09/18/2024	ND	416	104	400	0.00	

**Sample ID: B 49 @ 6' (H245658-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	09/18/2024	ND	416	104	400	0.00	

**Sample ID: W 31 BGS 4-6' (H245658-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	09/18/2024	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache</u>	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Bruce Baker</u>		P.O. #:											
Address:		Company:											
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:											
Phone #: Fax #:		Address:											
Project #: Project Owner:		City:											
Project Name:		State: Zip:											
Project Location: <u>NRPU 613</u>		Phone #:											
Sampler Name: <u>Jose Quevedo</u>	Fax #:												

FOR LAB USE ONLY		(GRAB OR COMP) # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		
<u>H245058</u>	<u>B45 @ 6'</u>	<u>0</u>			<u>1</u>				<u>1</u>		<u>9/17</u>	<u>1:30</u>	<u>C1</u>
<u>1</u>	<u>B49 @ 6'</u>	<u>0</u>			<u>1</u>				<u>1</u>		<u>1:32</u>		
<u>3</u>	<u>W31 BGS 4-6'</u>	<u>0</u>			<u>1</u>				<u>1</u>		<u>1:34</u>		

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Relinquished By: <u>Jose Quevedo</u>	Date: <u>9/17/24</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>10:59</u>	Date:	Received By:	All Results are emailed. Please provide Email address: <u>39821052@gmail.com</u>	
Relinquished By:	Date:	Received By:	REMARKS: <u>C- Mail Results 24</u>	
Time:	Date:	Received By:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <u>4.1</u> Corrected Temp. °C: <u>3.5</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>JP</u>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
				Thermometer ID #140 Correction Factor -0.6°C
				Corrected Temp. °C

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



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

---

September 10, 2024

BRUCE BAKER  
APACHE CORP - HOBBS  
2350 W. MARLAND BLVD.  
HOBBS, NM 88240

RE: NEDU #613

Enclosed are the results of analyses for samples received by the laboratory on 09/09/24 10:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/10/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	TOPSOIL BACKGROUND	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

**Sample ID: BG 1 (H245426-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.74	86.8	2.00	2.33	
Toluene*	<0.050	0.050	09/09/2024	ND	1.68	84.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.69	84.4	2.00	3.41	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	5.04	84.0	6.00	3.49	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	209	104	200	1.75	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	205	103	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/10/2024	Sampling Type:	Soil
Project Name:	NEDU #613	Sampling Condition:	Cool & Intact
Project Number:	TOPSOIL BACKGROUND	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

**Sample ID: BG 2 (H245426-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.74	86.8	2.00	2.33	
Toluene*	<0.050	0.050	09/09/2024	ND	1.68	84.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.69	84.4	2.00	3.41	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	5.04	84.0	6.00	3.49	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	209	104	200	1.75	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	205	103	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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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: <b>Apache</b>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: <b>Bruce Baker</b>		P.O. #:																						
Address:		Company:																						
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name: <b>Top Soil Background NEDU 613</b>		State: Zip:																						
Project Location:		Phone #:																						
Sampler Name: <b>Julio M. Rivera</b>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING		<b>CL</b> <b>BTEX</b> <b>EXT TPH</b>											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:											DATE	TIME
<b>H245426</b>		<b>BG1</b>		<b>1</b>	<b>1</b>	<b>1</b>				<b>1</b>	<b>1</b>												<b>9/9/24</b>	<b>9:00</b>
<b>2</b>		<b>BG2</b>		<b>1</b>		<b>1</b>				<b>1</b>			<b>9/9/24</b>	<b>9:02</b>										

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Relinquished By: <i>[Signature]</i>		Date: <b>9/9/24</b>	Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <b>10821052@gmail.com</b>	
Relinquished By: <i>[Signature]</i>		Date: <b>10/2</b>	Received By: <i>[Signature]</i>		All Results are emailed. Please provide Email address: <b>L.Baker; yesenia.L@DiamondBackNM.com</b>	
Delivered By: (Circle One)		Observed Temp. °C: <b>0.92</b>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		REMARKS: <b>E-Mail Results</b>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <b>0.32</b>	CHECKED BY: <i>[Signature]</i>		Turnaround Time: <b>Standard</b> <input type="checkbox"/> <b>Rush</b> <input checked="" type="checkbox"/> <b>Bacteria (only) Sample Condition</b> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C	
FORM-001 R 3-08/03/24				Thermometer ID #140 Correction Factor -0.6°C <b>24 Hrs.</b> <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C		

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



***SLO Information***  
***and***  
**Reclamation Summary Report**

An archeological survey was conducted prior to delineation and excavation of the release site in accordance with the SLO Cultural Properties Protection Rule. The release area is inside the Apache Corporation enrolled acreage for the LPC and SDL habitat. CEHMM representatives were contacted for approval to conduct remediation of the release site in accordance with the conservation plan.

Once the excavation was backfilled the disturbed area prepared and reseeded in accordance with the approved revegetation and noxious weed plan. The growth will be monitor in accordance with the approved revegetation and noxious weed plan.

Attachments: Coversheet, CEHMM email, Revegetation and Noxious weed plan, and Photos.



Stephanie Garcia Richard, Commissioner of Public Lands  
State of New Mexico

## NMSLO Cultural Resources Cover Sheet Exhibit

**NMCRIS Activity Number:**

(if applicable)

**Exhibit Type** (select one)

**ARMS Inspection/Review** - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

**Archaeological Survey**

**Findings:**

**Negative** - No further archaeological review is required.

**Positive** - Have avoidance and protection measures been devised? Select one:

**Comments:**

**Project Details:**

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

**Project Location:**

County(ies):

PLSS/Section/Township/Range):

---

**For NMSLO Agency Use Only:**

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

---

*No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.*

Form Revised 12 22

**From:** [Matt Mathis](#)  
**To:** [Baker, Larry](#)  
**Cc:** [Ryan Schmidt](#); [Emily Wirth](#)  
**Subject:** [EXTERNAL] RE: Upcoming Remediation NEDU 348 and NEDU 613  
**Date:** Thursday, August 15, 2024 5:07:09 PM  
**Attachments:** [image003.png](#)  
[image004.png](#)  
[image005.png](#)

---

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Hi Larry,

I do not see any issues or potential impacts with either of these projects from a CCAA standpoint. Please move forward with your remediation.

If you do not mind me asking, who do you use for your reseed work? My Environmental Services team provides that type of service. It is separate from the CCAA program. If you are interested let me know and we can talk in more detail. Thanks, have a great day!

## Matt Mathis

*Deputy Director*  
505 N. Main St., Carlsbad, NM 88220  
Office: (575)885-3700  
Cell: (575)706-7476



---

**From:** Baker, Larry <Larry.Baker@apachecorp.com>  
**Sent:** Tuesday, August 13, 2024 8:08 AM  
**To:** Matt Mathis <matt.mathis@cehmm.org>  
**Subject:** FW: Upcoming Remediation NEDU 348 and NEDU 613

You don't often get email from [larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com). [Learn why this is important](#)

Matt,

I have two remediation scheduled and the NEDU 613 is on SLO and they have requested that you guys are okay with us conducting the remediations. Thanks

**LARRY BRUCE BAKER, RSO**

direct 432-818-1654 | mobile 432-250-8384

---

**From:** Baker, Larry

**Sent:** Tuesday, August 13, 2024 9:05 AM

**To:** Ryan Schmidt <[ryan.schmidt@cehmm.org](mailto:ryan.schmidt@cehmm.org)>

**Subject:** FW: Upcoming Remediation NEDU 348 and NEDU 613

Ryan,

Is it okay to proceed these remediations?

**LARRY BRUCE BAKER, RSO**

direct 432-818-1654 | mobile 432-250-8384

---

**From:** Baker, Larry

**Sent:** Tuesday, July 9, 2024 12:58 PM

**To:** Ryan Schmidt <[ryan.schmidt@cehmm.org](mailto:ryan.schmidt@cehmm.org)>

**Subject:** Upcoming Remediation NEDU 348 and NEDU 613

Ryan,

Attached are the KMZ for two upcoming remediation for your review and approval. Please let me know if you have any questions or wish to discuss. Thanks and have a great day.

**LARRY BRUCE BAKER, RSO**

ENVIRONMENTAL SPECIALIST SENIOR – U.S. ONSHORE OPERATIONS

APACHE LEGACY, SOUTHERN MIDLAND BASIN & DELAWARE BASIN

direct 432-818-1654 | mobile 432-250-8384 | office 2.080

[larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)

**APACHE CORPORATION**

303 Veterans Airpark Lane  
Midland, Texas 79705 U.S.A.

[ApacheCorp.com](http://ApacheCorp.com) | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)

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**Revegetation  
And  
Noxious Weed Plan**

**Revegetation Plan:**

All the disturbed area in the pasture will be properly prepared and reseeded with NMSLO shallow seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

**Noxious Weed Plan:**

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

# NEDU 613 Seeding



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 395808

**QUESTIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2407444539
Incident Name	NAPP2407444539 NEDU 613 INJECTION LINE @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	NEDU 613 INJECTION LINE
Date Release Discovered	03/07/2024
Surface Owner	State

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 100 BBL   Recovered: 0 BBL   Lost: 100 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 395808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: <a href="#">Larry Baker</a> Title: <a href="#">Sr Environmental Tech</a> Email: <a href="mailto:larry.baker@apachecorp.com">larry.baker@apachecorp.com</a> Date: <a href="#">03/14/2024</a>
--	--

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 395808

**QUESTIONS (continued)**

Operator:  APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:  873
	Action Number:  395808
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	21200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	533
GRO+DRO (EPA SW-846 Method 8015M)	385
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/01/2024
On what date will (or did) the final sampling or liner inspection occur	08/09/2024
On what date will (or was) the remediation complete(d)	09/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	18500
What is the estimated volume (in cubic yards) that will be reclaimed	2176
What is the estimated surface area (in square feet) that will be remediated	18500
What is the estimated volume (in cubic yards) that will be remediated	2176

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 395808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	SUNDANCE SERVICES, INC [fKJ1600527371]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 06/04/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 395808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 395808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>381954</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>09/12/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>10</b>
What was the sampling surface area in square feet	<b>2000</b>

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	14600
What was the total volume (cubic yards) remediated	2740
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	20000
What was the total volume (in cubic yards) reclaimed	2740
Summarize any additional remediation activities not included by answers (above)	The release was excavated to depths of 2 to 9 feet. All samples were below table one standards for release less than 50 feet to groundwater. All excavated soil was hauled to an OCD approved facility. The excavation was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The disturbed area was reseeded in accordance with the approved revegetation and noxious weed plan.

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 10/25/2024
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Action 395808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	20000
What was the total volume of replacement material (in cubic yards) for this site	2740

*Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.*

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	09/21/2024

Summarize any additional reclamation activities not included by answers (above)	The disturbed area was reseeded in accordance with the approved revegetation and noxious weed plan.
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*The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.*

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 10/25/2024
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QUESTIONS, Page 8

Action 395808

**QUESTIONS (continued)**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 395808

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 395808
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	Remediation closure and reclamation report approved, release resolved.	2/14/2025