



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

September 23, 2020

Re: *Northeast Drinkard Unit Satellite 4A Emulsion Line*  
Case # *NRM1927750734 (1RP-5732)*

On 9/27/2019 a release occurred due to an 8 inch emulsion line failed resulting in the loss of fluid. The release (GPS: 32.4668, -103.1534) is located north of Eunice, New Mexico in unit letter E section 22 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE and USGS wells of records. The nearest wells suggest that groundwater beneath the release is 35 feet below ground surface.

The release was excavated to various depths ranging from 1 foot to 17.5 feet. Beginning on 6/4/2020 5 point bottom and wall composite samples were collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material was hauled to an OCD approved facility. Once laboratory results confirmed the entire excavation was below table one standards for releases less than or equal to 50 feet the excavation was backfilled with clean imported caliche to a depth of 2 foot at the request of the surface landowner. The remaining two feet was backfilled with clean top soil from the surrounding area and contoured. The disturbed area will be reseeded in accordance with the surface landowner's guidelines.

Apache Corporation has completed remediation and respectfully request that the event be closed.

*Enclosed: C-141, Groundwater Data, Sample Diagram, Sample Data, Laboratory Results, Photos, and Variance Request.*

Submitted by;

*Bruce Baker*

**Environmental Technician**

*larry.baker@apachecorp.com*

**Cell# 432-631-6982**

**Off# 432-818-1000**

|                |               |
|----------------|---------------|
| Incident ID    | NRM1927750734 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Site Assessment/Characterization

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

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>35</u> (ft bgs)  |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

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

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

|                |               |
|----------------|---------------|
| Incident ID    | NRM1927750734 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

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

Printed Name: Larry Baker Title: Environmental Tech SR.

Signature: *Larry Baker* Date: 9/23/2020

email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: Cristina Eads Date: 09/23/2020

|                |               |
|----------------|---------------|
| Incident ID    | NRM1927750734 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.  
 Signature: *Larry Baker* Date: 9/23/2020  
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

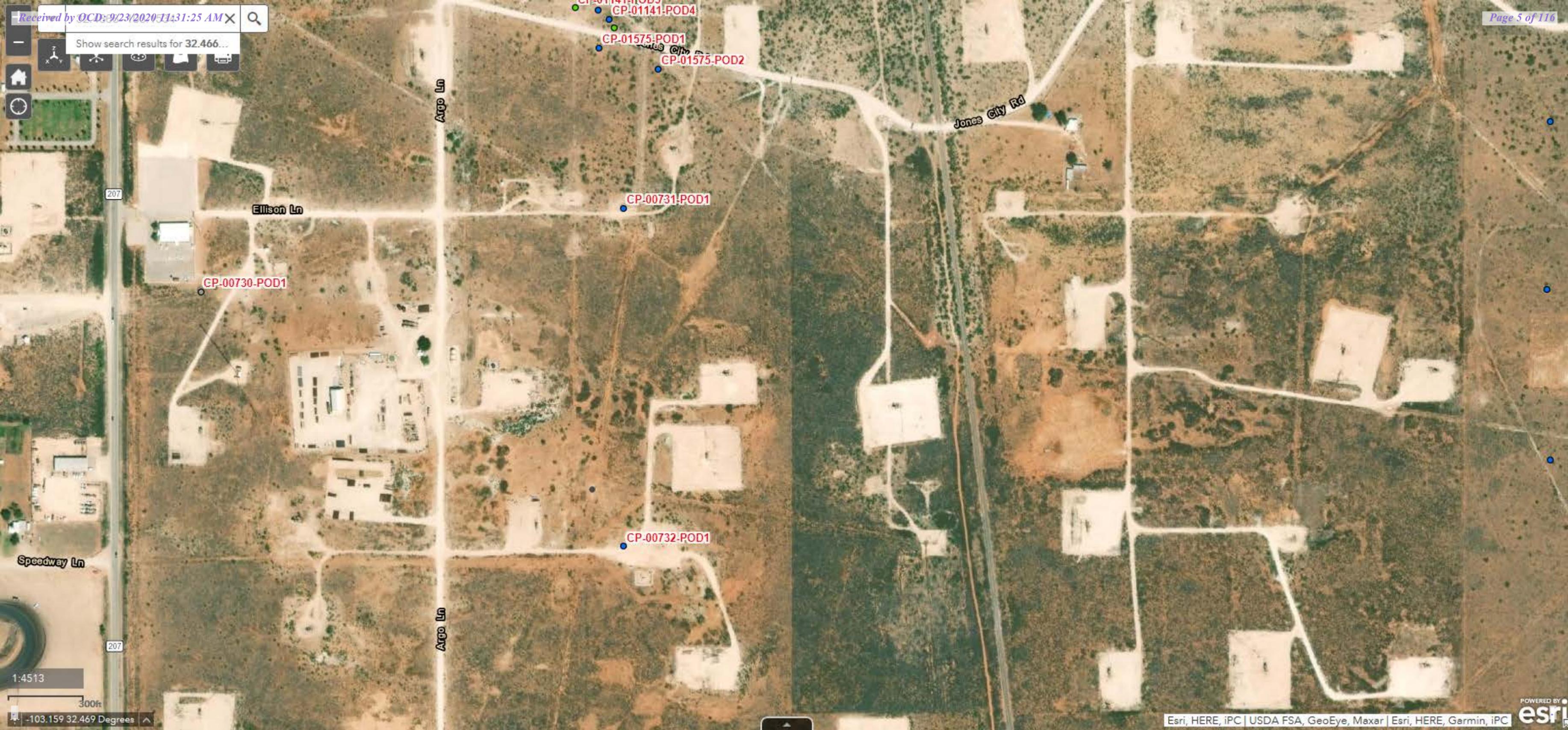
**OCD Only**

Received by: Cristina Eads Date: 09/23/2020

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: *Cristina Eads* Date: 11/06/2020  
 Printed Name: Cristina Eads Title: Environmental Specialist

Show search results for 32.466...



CP-01141-POD3

CP-01141-POD4

CP-01575-POD1

CP-01575-POD2

CP-00731-POD1

CP-00730-POD1

CP-00732-POD1

Argo Ln

Ellison Ln

Speedway Ln

Jones City Rd

207

207

1:4513

300ft

-103.159 32.469 Degrees



# New Mexico Office of the State Engineer Point of Diversion Summary

|          |               |                                    |                       |         |  |  |  |  |
|----------|---------------|------------------------------------|-----------------------|---------|--|--|--|--|
|          |               | (quarters are 1=NW 2=NE 3=SW 4=SE) |                       |         |  |  |  |  |
| Well Tag | POD Number    | (quarters are smallest to largest) | (NAD83 UTM in meters) |         |  |  |  |  |
|          |               | Q64 Q16 Q4 Sec Tws Rng             | X                     | Y       |  |  |  |  |
|          | CP 01575 POD2 | 2 2 1 22 21S 37E                   | 673615                | 3594181 |  |  |  |  |

|                   |               |                      |                        |
|-------------------|---------------|----------------------|------------------------|
| Driller License:  | 1456          | Driller Company:     | WHITE DRILLING COMPANY |
| Driller Name:     | WHITE, JOHN W |                      |                        |
| Drill Start Date: | 12/15/2015    | Drill Finish Date:   | 12/16/2015             |
| Log File Date:    | 12/30/2015    | Plug Date:           |                        |
| Pump Type:        |               | PCW Rcv Date:        | Source: Shallow        |
| Casing Size:      | 2.00          | Pipe Discharge Size: | Estimated Yield:       |
|                   |               | Depth Well:          | 35 feet                |
|                   |               | Depth Water:         | 35 feet                |

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 32  | 33     | Sandstone/Gravel/Conglomerate |
|                                | 33  | 35     | Shale/Mudstone/Siltstone      |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 25  | 35     |

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

9/22/20 12:48 PM POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer Point of Diversion Summary

|          |               |                                    |     |    |     |                       |     |        |         |
|----------|---------------|------------------------------------|-----|----|-----|-----------------------|-----|--------|---------|
|          |               | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |    |     | (NAD83 UTM in meters) |     |        |         |
| Well Tag | POD Number    | Q64                                | Q16 | Q4 | Sec | Tws                   | Rng | X      | Y       |
|          | CP 01575 POD1 | 1                                  | 2   | 1  | 22  | 21S                   | 37E | 673544 | 3594204 |

|                   |               |                      |                        |
|-------------------|---------------|----------------------|------------------------|
| Driller License:  | 1456          | Driller Company:     | WHITE DRILLING COMPANY |
| Driller Name:     | WHITE, JOHN W |                      |                        |
| Drill Start Date: | 12/15/2015    | Drill Finish Date:   | 12/16/2015             |
| Log File Date:    | 12/30/2015    | PCW Rcv Date:        |                        |
| Pump Type:        |               | Pipe Discharge Size: |                        |
| Casing Size:      | 2.00          | Depth Well:          | 40 feet                |
|                   |               | Plug Date:           |                        |
|                   |               | Source:              | Shallow                |
|                   |               | Estimated Yield:     |                        |
|                   |               | Depth Water:         | 35 feet                |

|                                |     |        |                               |
|--------------------------------|-----|--------|-------------------------------|
|                                |     |        |                               |
| Water Bearing Stratifications: | Top | Bottom | Description                   |
|                                | 23  | 38     | Sandstone/Gravel/Conglomerate |
|                                | 38  | 40     | Shale/Mudstone/Siltstone      |

|                      |     |        |
|----------------------|-----|--------|
|                      |     |        |
| Casing Perforations: | Top | Bottom |
|                      | 30  | 40     |

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

9/22/20 12:47 PM

POINT OF DIVERSION SUMMARY

### Radius

Buffer Size (miles) : 0.5

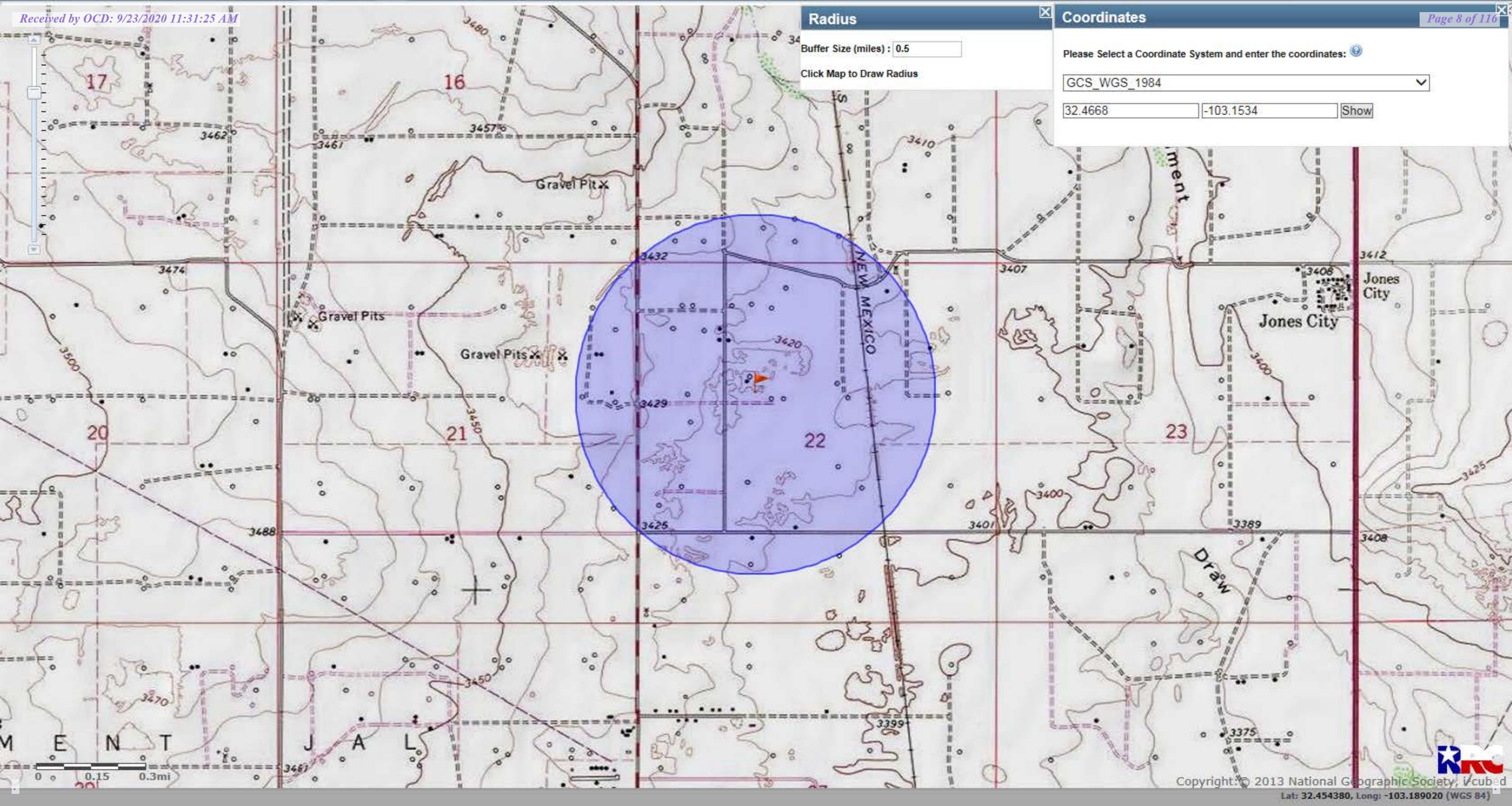
Click Map to Draw Radius

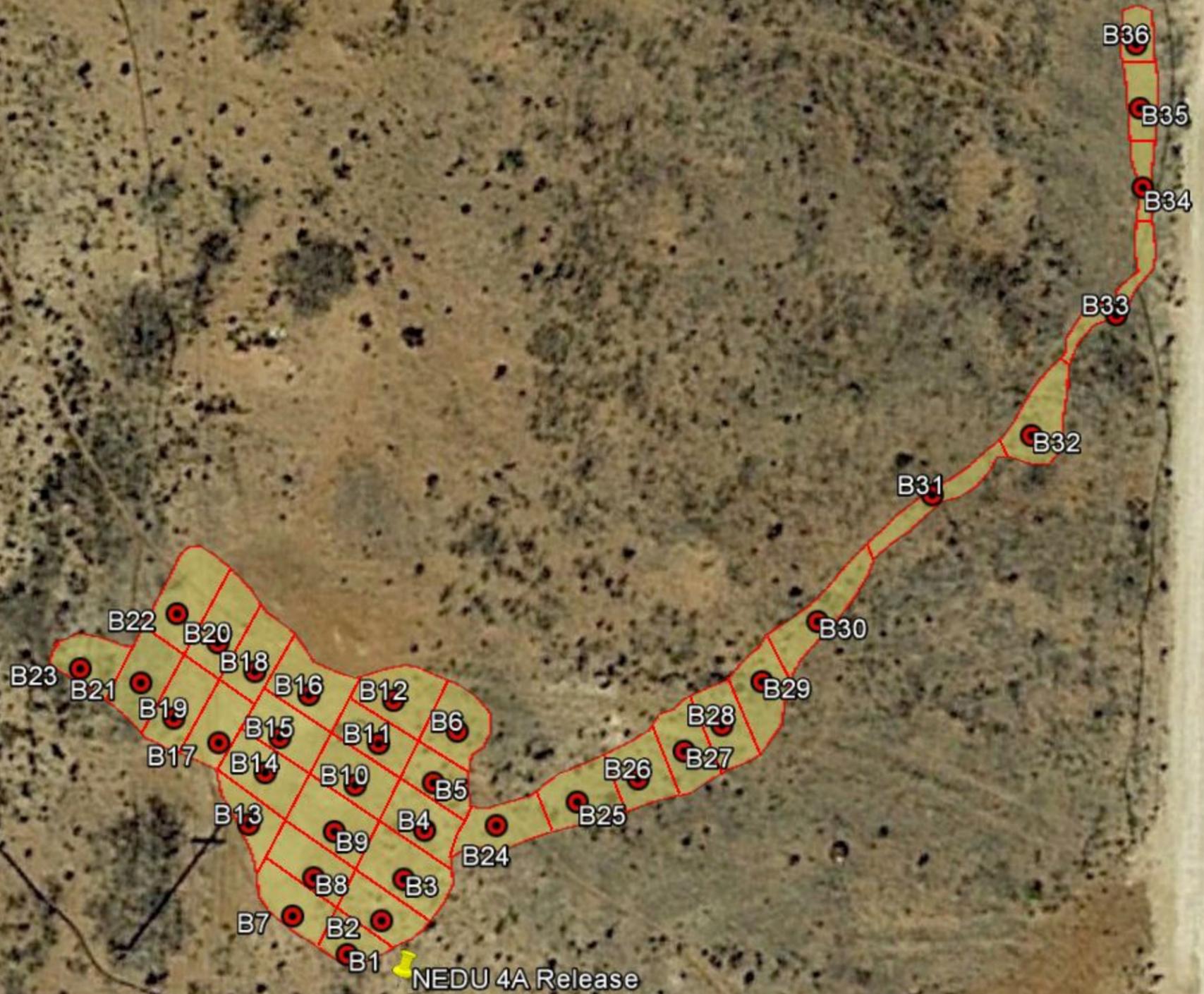
### Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS\_WGS\_1984

32.4668 -103.1534 Show

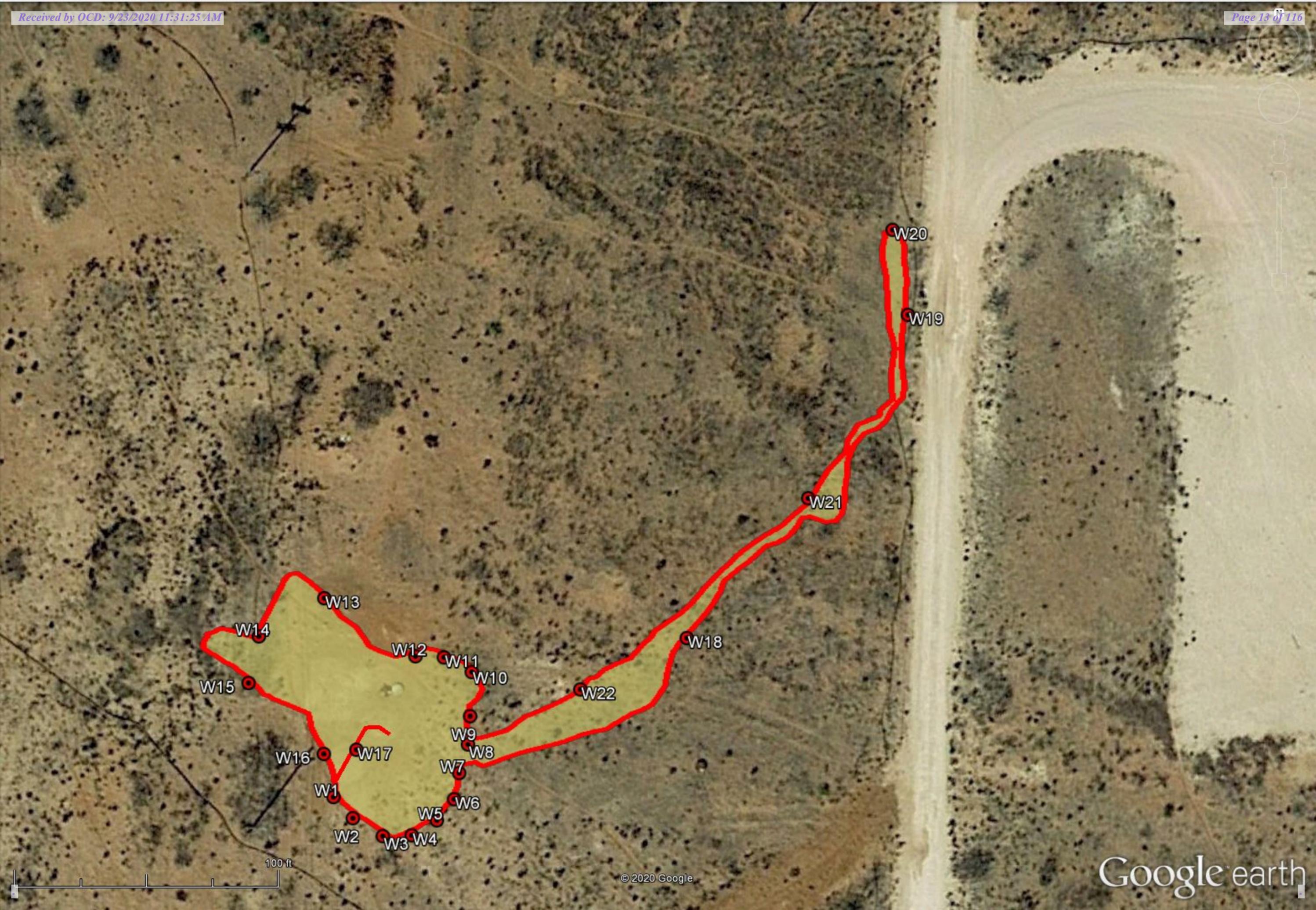






|     |           |      |      |        |        |        |        |        |       |       |       |                          |
|-----|-----------|------|------|--------|--------|--------|--------|--------|-------|-------|-------|--------------------------|
| B14 | 6/4/2020  | 8'   | 64   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466817<br>-103.153416 |
| B15 | 6/4/2020  | 8'   | 1170 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466840<br>-103.153405 |
|     | 6/26/2020 | 8.5' | 16   |        |        |        |        |        |       |       |       |                          |
| B16 | 6/4/2020  | 8'   | 16   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466868<br>-103.153383 |
| B17 | 6/4/2020  | 8'   | 32   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466837<br>-103.153452 |
| B18 | 6/4/2020  | 8'   | 128  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466883<br>-103.153425 |
| B19 | 6/4/2020  | 4'   | 32   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466853<br>-103.153487 |
| B20 | 6/4/2020  | 4'   | 32   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466902<br>-103.153454 |
| B21 | 6/4/2020  | 4'   | 32   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466876<br>-103.153513 |
| B22 | 6/4/2020  | 4'   | 16   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466921<br>-103.153486 |
| B23 | 6/4/2020  | 4'   | 96   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466885<br>-103.153560 |
| B24 | 6/19/2020 | 1'   | 176  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466783<br>-103.153237 |
| B25 | 6/19/2020 | 1'   | 112  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466798<br>-103.153174 |
| B26 | 6/19/2020 | 1'   | 144  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 13.6  | <10.0 | 32.466813<br>-103.153127 |
| B27 | 6/19/2020 | 1'   | 112  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466831<br>-103.153091 |
| B28 | 6/19/2020 | 1'   | 224  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466848<br>-103.153062 |
| B29 | 6/19/2020 | 1'   | 192  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466877<br>-103.153031 |
| B30 | 6/19/2020 | 1'   | 160  | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466916<br>-103.152988 |

|     |           |      |    |        |        |        |        |        |       |       |       |                          |
|-----|-----------|------|----|--------|--------|--------|--------|--------|-------|-------|-------|--------------------------|
| B31 | 6/19/2020 | 1'   | 96 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 39.2  | <10.0 | 32.467000<br>-103.152898 |
| B32 | 6/19/2020 | 1'   | 48 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.467039<br>-103.152820 |
| B33 | 6/19/2020 | 1'   | 80 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.467119<br>-103.152752 |
| B34 | 6/19/2020 | 1'   | 32 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 18.5  | <10.0 | 32.467204<br>-103.152731 |
| B35 | 6/19/2020 | 1'   | 32 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 241   | 40    | 32.467258<br>-103.152732 |
|     | 7/28/2020 | 1.5" |    | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 25.1  | <10.0 |                          |
| B36 | 6/19/2020 | 1'   | 32 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 36.4  | <10.0 | 32.467301<br>-103.152735 |



- W1
- W2
- W3
- W4
- W5
- W6
- W7
- W8
- W9
- W10
- W11
- W12
- W13
- W14
- W15
- W16
- W17
- W18
- W19
- W20
- W21
- W22

100 ft

| Sample ID | Sample Date | Chloride | Benzene | Toulene | Ethybenzene | Total Xylenes | Total BTEX | GRO   | DRO   | EXT DRO | GPS Coordinates            |
|-----------|-------------|----------|---------|---------|-------------|---------------|------------|-------|-------|---------|----------------------------|
| W1        | 6/4/2020    | 320      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466733°<br>-103.1534234 |
| W2        | 6/16/2020   | 112      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466711<br>-103.153400   |
| W3        | 6/16/2020   | 64       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466692<br>-103.153363   |
| W4        | 6/16/2020   | 272      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466693<br>-103.153327   |
| W5        | 6/4/2020    | 592      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466708<br>-103.153296   |
| W6        | 6/4/2020    | 432      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466713<br>-103.153275   |
| W7        | 6/16/2020   | 448      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466758<br>-103.153269   |
| W8        | 6/16/2020   | 144      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466788<br>-103.153258   |
| W9        | 6/16/2020   | 16       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466817<br>-103.153255   |
| W10       | 6/4/2020    | 64       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466863<br>-103.153254   |
| W11       | 6/4/2020    | 96       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 16.6  | <10.0   | 32.466879<br>-103.153288   |
| W12       | 6/4/2020    | 16       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 85    | 70.4    | 32.466885<br>-103.153334   |
| W13       | 6/4/2020    | 192      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 35.3  | 22.3    | 32.466940<br>-103.153435   |
| W14       | 6/4/2020    | 240      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 13    | <10.0   | 32.466901<br>-103.153515   |
| W15       | 6/16/2020   | 64       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466852<br>-103.153528   |
| W16       | 6/16/2020   | <16.0    | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0 | <10.0   | 32.466778<br>-103.153435   |

|     |           |       |        |        |        |        |        |       |       |       |                          |
|-----|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------------------------|
| W17 | 6/16/2020 | 128   | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466782<br>-103.153395 |
| W18 | 6/19/2020 | 64    | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466809<br>-103.153990 |
| W19 | 6/19/2020 | 16    | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.467237<br>-103.152716 |
| W20 | 6/19/2020 | <16.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.467326<br>-103.152735 |
| W21 | 6/19/2020 | <16.0 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 154   | 16.5  | 32.467045<br>-103.152840 |
|     | 8/24/2020 |       | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 |                          |
| W22 | 6/19/2020 | 80    | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.466845<br>-103.153120 |



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

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June 10, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 06/04/20 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 1 (H001521-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 2.02 | 101        | 2.00          | 2.79 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 2.18 | 109        | 2.00          | 2.24 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 2.08 | 104        | 2.00          | 2.19 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 6.06 | 101        | 6.00          | 1.18 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 5 (H001521-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 592    | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 6 (H001521-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 432    | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/04/2020  
 Reported: 06/10/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 06/04/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: W 10 (H001521-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 11 (H001521-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>96.0</b> | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| <b>DRO &gt;C10-C28*</b> | <b>16.6</b> | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 12 (H001521-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>16.0</b> | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>85.0</b> | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>70.4</b> | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 13 (H001521-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>192</b> | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>35.3</b> | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>22.3</b> | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: W 14 (H001521-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>240</b> | 16.0            | 06/08/2020 | 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            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| <b>DRO &gt;C10-C28*</b> | <b>13.0</b> | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**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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\*=Accredited Analyte

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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: <i>Apacde Corporation</i><br>Project Manager: <i>Bruce Baker</i>                                  |  | P.O. #:<br>Company:<br>Attn:<br>Address:<br>City:<br>State: Zip:              |  | <b>BILL TO</b>  |  | ANALYSIS REQUEST                    |  |                  |  |  |  |
| Address:<br>City:<br>Phone #: Fax #:<br>Project #: Project Owner:   |  | State: Zip:   |  | Address:<br>City:<br>State: Zip:  |  |                                     |  |                  |  |  |  |
| Project Name: <i>NEOU 4A</i><br>Project Location: <i>NEOU 4A</i>  |  | State: Zip:   |  | Phone #: Fax #:<br>Fax #:   |  |                                     |  |                  |  |  |  |
| Sampler Name: <i>Jeff Brown</i>   |  | FOR LAB USE ONLY  |  | MATRIX<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER:<br>ACID/BASE:<br>ICE / COOL<br>OTHER:  |  | PRESERV.                            |  | SAMPLING         |  |  |  |
| Lab I.D. <i>4001521</i>   |  | Sample I.D.   |  | (G)RAB OR (C)OMP.   |  | # CONTAINERS                        |  |                  |  |  |  |
| 1 <i>W1</i><br>2 <i>W6</i><br>3 <i>W10</i><br>4 <i>W11</i><br>5 <i>W12</i><br>6 <i>W13</i><br>7 <i>W14</i><br>8 |  | DATE<br>TIME  |  | DATE<br>TIME  |  | CL<br>BTEX<br>EXT. TPH              |  |                  |  |  |  |
| Relinquished By: <i>Jeff Brown</i><br>Date: <i>6/14/20</i><br>Time: <i>14:23</i>                                |  | Received By: <i>[Signature]</i><br>Date: <i>6/14/20</i><br>Time: <i>14:23</i> |  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:<br>All Results are emailed. Please provide Email address: |  | REMARKS:                            |  |                  |  |  |  |
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other:  |  | Observed Temp. °C<br>Corrected Temp. °C                                       |  | Sample Condition<br>Cool Intact<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No                      |  | CHECKED BY: (Initials)<br><i>KS</i> |  | Turnaround Time: |  | Standard <input checked="" type="checkbox"/> <i>RUSH</i><br>Bacteria (only) Sample Condition<br>Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No<br>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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June 10, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 06/04/20 16:20.

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

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:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 1 (H001522-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 784    | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 2 (H001522-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 288    | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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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:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 3 (H001522-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 4 (H001522-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| <b>DRO &gt;C10-C28*</b> | <b>18.6</b> | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 5 (H001522-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2020 | ND              | 184 | 91.8       | 200           | 4.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2020 | ND              | 187 | 93.3       | 200           | 3.63 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 6 (H001522-06)**

| BTEX 8021B            |              | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*              | <0.050       | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*              | <0.050       | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*         | <0.050       | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| <b>Total Xylenes*</b> | <b>0.192</b> | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX            | <0.300       | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>240</b> | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           | S-06 |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |      |
| GRO C6-C10*                | <50.0       | 50.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |      |
| <b>DRO &gt;C10-C28*</b>    | <b>2340</b> | 50.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 | QM-07     |      |
| <b>EXT DRO &gt;C28-C36</b> | <b>152</b>  | 50.0            | 06/06/2020 | ND              |     |            |               |      |           |      |

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 157 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 7 (H001522-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>128</b> | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                | <10.0       | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>658</b>  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>88.3</b> | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 8 (H001522-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 9 (H001522-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 10 (H001522-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1230   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 | QM-07     |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 11 (H001522-11)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>112</b> | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/04/2020  
 Reported: 06/10/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 06/04/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: B 12 (H001522-12)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>672</b> | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                | <10.0       | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>235</b>  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>40.4</b> | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 13 (H001522-13)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.87 | 93.3       | 2.00          | 2.87 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.90 | 94.8       | 2.00          | 2.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 96.2       | 2.00          | 2.50 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.58 | 93.1       | 6.00          | 2.68 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>1540</b> | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M               |            | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|-------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                 | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*             | <10.0      | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| <b>DRO &gt;C10-C28*</b> | <b>105</b> | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36        | <10.0      | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 14 (H001522-14)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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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:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 15 (H001522-15)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1170   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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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:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 16 (H001522-16)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 17 (H001522-17)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 99.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/04/2020  
 Reported: 06/10/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 06/04/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: B 18 (H001522-18)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 85.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.8 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/04/2020  
 Reported: 06/10/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 06/04/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: B 19 (H001522-19)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 99.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/04/2020  
 Reported: 06/10/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 06/04/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: B 20 (H001522-20)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 21 (H001522-21)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.97 | 98.5       | 2.00          | 2.32 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2020 | ND              | 1.91 | 95.7       | 2.00          | 2.45 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2020 | ND              | 1.92 | 95.9       | 2.00          | 2.34 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2020 | ND              | 5.55 | 92.5       | 6.00          | 2.48 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 22 (H001522-22)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/06/2020 | ND              | 1.99 | 99.6       | 2.00          | 0.880 |           |
| Toluene*       | <0.050 | 0.050           | 06/06/2020 | ND              | 1.94 | 96.9       | 2.00          | 0.901 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/06/2020 | ND              | 1.96 | 98.1       | 2.00          | 0.890 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/06/2020 | ND              | 5.65 | 94.2       | 6.00          | 1.12  |           |
| Total BTEX     | <0.300 | 0.300           | 06/06/2020 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/04/2020 | Sampling Date:      | 06/04/2020     |
| Reported:         | 06/10/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Kelly Jacobson |
| Project Location: | NONE GIVEN |                     |                |

**Sample ID: B 23 (H001522-23)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/06/2020 | ND              | 1.99 | 99.6       | 2.00          | 0.880 |           |
| Toluene*       | <0.050 | 0.050           | 06/06/2020 | ND              | 1.94 | 96.9       | 2.00          | 0.901 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/06/2020 | ND              | 1.96 | 98.1       | 2.00          | 0.890 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/06/2020 | ND              | 5.65 | 94.2       | 6.00          | 1.12  |           |
| Total BTEX     | <0.300 | 0.300           | 06/06/2020 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 06/08/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/06/2020 | ND              | 190 | 94.8       | 200           | 7.81 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/06/2020 | ND              | 174 | 87.0       | 200           | 13.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/06/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celestine 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**

82 jo 92 eba

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| Company Name: <i>Apex Corporation</i><br>Project Manager: <i>Bruce Baker</i> |  | <b>BILL TO</b>   |  | <b>ANALYSIS REQUEST</b>   |  |
| Address:<br>City:<br>State:<br>Zip:  |  | P.O. #:<br>Company:<br>Attn:<br>Address:<br>City:<br>State:<br>Zip:            |  |   |  |
| Phone #:<br>Fax #:<br>Project #:   |  | Project Owner:   |  |   |  |
| Project Name: <i>NEOU 49</i><br>Project Location: <i>NEOU 49</i>             |  | City:<br>State:<br>Zip:  |  |   |  |
| Sampler Name: <i>J. Brown</i>  |  | Phone #:<br>Fax #:   |  |   |  |
| FOR LAB USE ONLY   |  |  |  |   |  |
| Lab I.D.: <i>H001522</i>   |  | Sample I.D.  |  |   |  |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12                  |  | B1<br>B2<br>B3<br>B4<br>B5<br>B6<br>B7<br>B8<br>B9<br>B10<br>B11<br>B12        |  | (G)RAB OR (C)OMP.<br># CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER :<br>ACID/BASE:<br>ICE / COOL<br>OTHER : |  |
|  |  | DATE<br>TIME   |  | CL-<br>BTEX<br>EXT. TPH   |  |
|  |  | 6/4/20<br>0957<br>0956<br>0957<br>0958<br>0959<br>1000<br>1001<br>1002<br>1003 |  |   |  |

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Relinquished By: *Jeff Brown*  
 Date: *6/4/20*  
 Time: *7:27*

Received By: *[Signature]*  
 Date: *6/20*  
 Time: *6:20*

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: *586*  
 Observed Temp. °C: *58.6*  
 Corrected Temp. °C: *58.6*

Sample Condition  
 Cool Intact  Yes  No  
 Sample Intact  Yes  No

Checked By: *[Signature]*

Turnaround Time: *Standard*  
 Thermometer ID: *#47*  
 Correction Factor: *+0.4°C*  
 Bacteria (only)  Sample Condition  
 Cool Intact  Yes  No  
 Sample Intact  Yes  No  
 Corrected Temp. °C: *58.6*

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

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

82 jo 22 egep

|                         |                  |          |          |          |            |               |                   |               |
|-------------------------|------------------|----------|----------|----------|------------|---------------|-------------------|---------------|
| Company Name:           | Project Manager: | Address: | City:    | Phone #: | Project #: | Project Name: | Project Location: | Sampler Name: |
| <b>BILL TO</b>          |                  |          |          |          |            |               |                   |               |
| P.O. #:                 | Company:         | Attn:    | Address: | City:    | State:     | Zip:          | Phone #:          | Fax #:        |
| <b>ANALYSIS REQUEST</b> |                  |          |          |          |            |               |                   |               |

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | DATE   | TIME | CL | BTEX | EXT. TPH |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|--------|------|----|------|----------|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : |        |      |    |      |          |
| H001522  | G11         | C                 | 1            |             |            |      |     |        |         | 6/4/20 | 1004 | ✓  | ✓    | ✓        |
| MS 121   | G12         | C                 | 1            |             |            |      |     |        |         |        | 1005 | ✓  | ✓    | ✓        |
| MS 122   | G13         | C                 | 1            |             |            |      |     |        |         |        | 1006 | ✓  | ✓    | ✓        |
| MS 123   | G14         | C                 | 1            |             |            |      |     |        |         |        | 1007 | ✓  | ✓    | ✓        |
| MS 124   | G15         | C                 | 1            |             |            |      |     |        |         |        | 1008 | ✓  | ✓    | ✓        |
| MS 125   | G16         | C                 | 1            |             |            |      |     |        |         |        | 1009 | ✓  | ✓    | ✓        |
| MS 126   | G17         | C                 | 1            |             |            |      |     |        |         |        | 1010 | ✓  | ✓    | ✓        |
| MS 127   | G18         | C                 | 1            |             |            |      |     |        |         |        | 1011 | ✓  | ✓    | ✓        |
| MS 128   | G19         | C                 | 1            |             |            |      |     |        |         |        | 1012 | ✓  | ✓    | ✓        |
| MS 129   | G20         | C                 | 1            |             |            |      |     |        |         |        | 1013 | ✓  | ✓    | ✓        |

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|                                     |              |                                 |   |                |
|-------------------------------------|--------------|---------------------------------|---|----------------|
| Relinquished By: <i>Jeff Ryan</i>   | Date: 6/4/20 | Received By: <i>[Signature]</i> | Verbal Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Add'l Phone #: |
| Relinquished By: <i>[Signature]</i> | Date: 6/4/20 | Received By: <i>[Signature]</i> | All Results are emailed. Please provide Email address:                              |                |

|                              |                    |   |                        |                          |  |  |
|------------------------------|--------------------|---|------------------------|--------------------------|--|--|
| Delivered By: (Circle One)   | Observed Temp. °C  | Sample Condition  | CHECKED BY: (Initials) | Turnaround Time:         | Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> | Bacteria (only) <input type="checkbox"/>                 |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> | h5                     | Thermometer ID #97       | #113   | Cool Intact <input type="checkbox"/>                     |
|                              |                    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                 |                        | Correction Factor +0.4°C |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

82 of 82 pages

Company Name: *Opacis Corporation*  
 Project Manager: *Gene Baker*  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:  
 Project #: Project Owner:  
 Project Name: *NEQU YA*  
 Project Location: *NEQU YA*  
 Sampler Name: *J. Brown*  
 FOR LAB USE ONLY

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

| Lab I.D.       | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | PRESERV.   |            | SAMPLING |               | DATE        | TIME                                | CL-                                 | BTEX                                | EXT. TPH |
|----------------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|------------|----------|---------------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|
|                |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER :  |               |             |                                     |                                     |                                     |          |
| <i>H001522</i> |             |                   |              |             |            |      |     |        |         |            |            |          |               |             |                                     |                                     |                                     |          |
|                | <i>881</i>  | <i>C 1</i>        | <i>1</i>     |             |            |      |     |        |         |            |            |          | <i>6/9/20</i> | <i>1014</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
|                | <i>882</i>  | <i>C 1</i>        | <i>1</i>     |             |            |      |     |        |         |            |            |          | <i>1015</i>   | <i>1016</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |
|                | <i>883</i>  | <i>C 1</i>        | <i>1</i>     |             |            |      |     |        |         |            |            |          | <i>6/9/20</i> | <i>1016</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |

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Relinquished By: *Jeff Brown*  
 Date: *6/9/20*  
 Time: *10:27*  
 Received By: *[Signature]*  
 Date: *6/9/20*  
 Time: *10:55*  
 Received By: *[Signature]*

Turnaround Time:  Standard  Rush  
 Bacteria (only)  Cool  Intact  
 Sample Condition  Yes  No

Delivered By: (Circle One)  UPS  Bus  Other:  
 Observed Temp. °C: *5.86*  
 Corrected Temp. °C: *6.20*

Checked By: *[Signature]*  
 Initials: *BS*

Thermometer ID # *1097*  
 Correction Factor *+0.4°C*  
 Sample ID: *A113*

Remarks:  
 Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address:  
 Bacteria (only)  Cool  Intact  
 Sample Condition  Yes  No

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

June 22, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 06/16/20 15:53.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

| Sample ID | Laboratory ID | Matrix | Date Sampled    | Date Received   |
|-----------|---------------|--------|-----------------|-----------------|
| W 2       | H001598-01    | Soil   | 16-Jun-20 09:35 | 16-Jun-20 15:53 |
| W 3       | H001598-02    | Soil   | 16-Jun-20 12:16 | 16-Jun-20 15:53 |
| W 4       | H001598-03    | Soil   | 16-Jun-20 09:37 | 16-Jun-20 15:53 |
| W 7       | H001598-04    | Soil   | 16-Jun-20 11:24 | 16-Jun-20 15:53 |
| W 8       | H001598-05    | Soil   | 16-Jun-20 10:00 | 16-Jun-20 15:53 |
| W 9       | H001598-06    | Soil   | 16-Jun-20 10:01 | 16-Jun-20 15:53 |
| W 15      | H001598-07    | Soil   | 16-Jun-20 10:50 | 16-Jun-20 15:53 |
| W 16      | H001598-08    | Soil   | 16-Jun-20 10:51 | 16-Jun-20 15:53 |
| W 17      | H001598-09    | Soil   | 16-Jun-20 12:16 | 16-Jun-20 15:53 |

06/22/20 - Client changed the name of the project via email. This is the revised report and will replace the one sent on 06/18/20.

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**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 2****H001598-01 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>112</b> |  | 16.0 | mg/kg | 4 | 0061808 | GM | 18-Jun-20 | 4500-Cl-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |  |          |         |    |           |       |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 104 % |  | 73.3-129 | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |  |          |         |    |           |       |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 128 % |  | 44.3-144 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                               |  |  |       |  |          |         |    |           |       |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 144 % |  | 42.2-156 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 3****H001598-02 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 |  | 16.0 | mg/kg | 4 | 0061808 | GM | 18-Jun-20 | 4500-Cl-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 73.3-129 |  | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 127 % | 44.3-144 |  | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 141 % | 42.2-156 |  | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 4****H001598-03 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |     |  |      |       |   |         |    |           |           |  |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 272 |  | 16.0 | mg/kg | 4 | 0061808 | GM | 18-Jun-20 | 4500-CI-B |  |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |  |          |         |    |           |       |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % |  | 73.3-129 | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |  |          |         |    |           |       |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 126 % |  | 44.3-144 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                               |  |  |       |  |          |         |    |           |       |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 140 % |  | 42.2-156 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

W 7

H001598-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>448</b> |  | 16.0 | mg/kg | 4 | 0061808 | GM | 18-Jun-20 | 4500-CI-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|  |  |  |       |  |          |         |    |           |       |  |
|--|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> |  |  | 105 % |  | 73.3-129 | 0061709 | MS | 17-Jun-20 | 8021B |  |
|--|--|--|-------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                                  |  |  |       |  |          |         |    |           |       |  |
|----------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> |  |  | 131 % |  | 44.3-144 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|----------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                                      |  |  |       |  |          |         |    |           |       |  |
|--------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> |  |  | 147 % |  | 42.2-156 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|--------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 8****H001598-05 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |     |  |      |       |   |         |    |           |           |  |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 144 |  | 16.0 | mg/kg | 4 | 0061808 | GM | 18-Jun-20 | 4500-CI-B |  |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |  |          |         |    |           |       |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % |  | 73.3-129 | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |  |          |         |    |           |       |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 122 % |  | 44.3-144 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                               |  |  |       |  |          |         |    |           |       |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 136 % |  | 42.2-156 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 9****H001598-06 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 |  | 16.0 | mg/kg | 4 | 0061809 | GM | 18-Jun-20 | 4500-CI-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 73.3-129 |  | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 119 % | 44.3-144 |  | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 132 % | 42.2-156 |  | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 15****H001598-07 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 |  | 16.0 | mg/kg | 4 | 0061809 | GM | 18-Jun-20 | 4500-CI-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 73.3-129 |  | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 125 % | 44.3-144 |  | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 140 % | 42.2-156 |  | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 16****H001598-08 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |       |  |      |       |   |         |    |           |           |  |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | <16.0 |  | 16.0 | mg/kg | 4 | 0061809 | GM | 18-Jun-20 | 4500-CI-B |  |
|----------|-------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|  |  |  |       |  |          |         |    |           |       |  |
|--|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> |  |  | 104 % |  | 73.3-129 | 0061709 | MS | 17-Jun-20 | 8021B |  |
|--|--|--|-------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                                  |  |  |       |  |          |         |    |           |       |  |
|----------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> |  |  | 129 % |  | 44.3-144 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|----------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                                      |  |  |       |  |          |         |    |           |       |  |
|--------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> |  |  | 146 % |  | 42.2-156 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|--------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

**W 17****H001598-09 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |     |  |      |       |   |         |    |           |           |  |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 128 |  | 16.0 | mg/kg | 4 | 0061809 | GM | 18-Jun-20 | 4500-CI-B |  |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 0061709 | MS | 17-Jun-20 | 8021B |  |

|                                       |  |  |       |  |          |         |    |           |       |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % |  | 73.3-129 | 0061709 | MS | 17-Jun-20 | 8021B |  |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 0061611 | MS | 17-Jun-20 | 8015B |  |

|                           |  |  |       |  |          |         |    |           |       |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 129 % |  | 44.3-144 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                               |  |  |       |  |          |         |    |           |       |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 144 % |  | 42.2-156 | 0061611 | MS | 17-Jun-20 | 8015B |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

|   |  |                              |
|---|--|------------------------------|
| APACHE CORP - HOBBS<br>2350 W. MARLAND BLVD.<br>HOBBS NM, 88240 | Project: NEDU 4A<br>Project Number: NONE GIVEN<br>Project Manager: BRUCE BAKER<br>Fax To: (575) 393-2432 | Reported:<br>22-Jun-20 11:38 |
|---|--|------------------------------|

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 0061808 - 1:4 DI Water**

**Blank (0061808-BLK1)** Prepared & Analyzed: 18-Jun-20

|          |    |      |       |  |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg |  |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|--|

**LCS (0061808-BS1)** Prepared & Analyzed: 18-Jun-20

|          |     |      |       |     |  |     |        |  |  |  |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|
| Chloride | 432 | 16.0 | mg/kg | 400 |  | 108 | 80-120 |  |  |  |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|

**LCS Dup (0061808-BSD1)** Prepared & Analyzed: 18-Jun-20

|          |     |      |       |     |  |     |        |      |    |  |
|----------|-----|------|-------|-----|--|-----|--------|------|----|--|
| Chloride | 432 | 16.0 | mg/kg | 400 |  | 108 | 80-120 | 0.00 | 20 |  |
|----------|-----|------|-------|-----|--|-----|--------|------|----|--|

**Batch 0061809 - 1:4 DI Water**

**Blank (0061809-BLK1)** Prepared & Analyzed: 18-Jun-20

|          |    |      |       |  |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg |  |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|--|

**LCS (0061809-BS1)** Prepared & Analyzed: 18-Jun-20

|          |     |      |       |     |  |     |        |  |  |  |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|
| Chloride | 400 | 16.0 | mg/kg | 400 |  | 100 | 80-120 |  |  |  |
|----------|-----|------|-------|-----|--|-----|--------|--|--|--|

**LCS Dup (0061809-BSD1)** Prepared & Analyzed: 18-Jun-20

|          |     |      |       |     |  |     |        |      |    |  |
|----------|-----|------|-------|-----|--|-----|--------|------|----|--|
| Chloride | 416 | 16.0 | mg/kg | 400 |  | 104 | 80-120 | 3.92 | 20 |  |
|----------|-----|------|-------|-----|--|-----|--------|------|----|--|

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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  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 0061709 - Volatiles****Blank (0061709-BLK1)**

Prepared &amp; Analyzed: 17-Jun-20

|                                       |        |       |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Benzene                               | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Toluene                               | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Ethylbenzene                          | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Total Xylenes                         | ND     | 0.150 | mg/kg |        |  |     |          |  |  |  |
| Total BTEX                            | ND     | 0.300 | mg/kg |        |  |     |          |  |  |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0523 |       | mg/kg | 0.0500 |  | 105 | 73.3-129 |  |  |  |

**LCS (0061709-BS1)**

Prepared &amp; Analyzed: 17-Jun-20

|                                       |        |       |       |        |  |      |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene                               | 1.93   | 0.050 | mg/kg | 2.00   |  | 96.7 | 72.2-131 |  |  |  |
| Toluene                               | 1.83   | 0.050 | mg/kg | 2.00   |  | 91.5 | 71.7-126 |  |  |  |
| Ethylbenzene                          | 1.82   | 0.050 | mg/kg | 2.00   |  | 91.1 | 68.9-126 |  |  |  |
| Total Xylenes                         | 5.28   | 0.150 | mg/kg | 6.00   |  | 88.1 | 71.4-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0523 |       | mg/kg | 0.0500 |  | 105  | 73.3-129 |  |  |  |

**LCS Dup (0061709-BSD1)**

Prepared &amp; Analyzed: 17-Jun-20

|                                       |        |       |       |        |  |      |          |      |      |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene                               | 2.15   | 0.050 | mg/kg | 2.00   |  | 107  | 72.2-131 | 10.4 | 14.6 |  |
| Toluene                               | 2.00   | 0.050 | mg/kg | 2.00   |  | 99.9 | 71.7-126 | 8.71 | 17.4 |  |
| Ethylbenzene                          | 1.96   | 0.050 | mg/kg | 2.00   |  | 98.2 | 68.9-126 | 7.50 | 18.9 |  |
| Total Xylenes                         | 5.68   | 0.150 | mg/kg | 6.00   |  | 94.7 | 71.4-125 | 7.23 | 18.5 |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0523 |       | mg/kg | 0.0500 |  | 105  | 73.3-129 |      |      |  |

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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  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240

Project: NEDU 4A  
Project Number: NONE GIVEN  
Project Manager: BRUCE BAKER  
Fax To: (575) 393-2432

Reported:  
22-Jun-20 11:38

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 0061611 - General Prep - Organics****Blank (0061611-BLK1)**

Prepared: 16-Jun-20 Analyzed: 17-Jun-20

|                                      |      |      |       |      |  |     |          |  |  |  |
|--------------------------------------|------|------|-------|------|--|-----|----------|--|--|--|
| GRO C6-C10                           | ND   | 10.0 | mg/kg |      |  |     |          |  |  |  |
| DRO >C10-C28                         | ND   | 10.0 | mg/kg |      |  |     |          |  |  |  |
| EXT DRO >C28-C36                     | ND   | 10.0 | mg/kg |      |  |     |          |  |  |  |
| <i>Surrogate: 1-Chlorooctane</i>     | 55.6 |      | mg/kg | 50.0 |  | 111 | 44.3-144 |  |  |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | 62.1 |      | mg/kg | 50.0 |  | 124 | 42.2-156 |  |  |  |

**LCS (0061611-BS1)**

Prepared: 16-Jun-20 Analyzed: 17-Jun-20

|                                      |      |      |       |      |  |     |          |  |  |  |
|--------------------------------------|------|------|-------|------|--|-----|----------|--|--|--|
| GRO C6-C10                           | 220  | 10.0 | mg/kg | 200  |  | 110 | 78.8-127 |  |  |  |
| DRO >C10-C28                         | 237  | 10.0 | mg/kg | 200  |  | 118 | 80-132   |  |  |  |
| Total TPH C6-C28                     | 457  | 10.0 | mg/kg | 400  |  | 114 | 81.3-128 |  |  |  |
| <i>Surrogate: 1-Chlorooctane</i>     | 63.3 |      | mg/kg | 50.0 |  | 127 | 44.3-144 |  |  |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | 70.8 |      | mg/kg | 50.0 |  | 142 | 42.2-156 |  |  |  |

**LCS Dup (0061611-BSD1)**

Prepared: 16-Jun-20 Analyzed: 17-Jun-20

|                                      |      |      |       |      |  |     |          |      |      |  |
|--------------------------------------|------|------|-------|------|--|-----|----------|------|------|--|
| GRO C6-C10                           | 205  | 10.0 | mg/kg | 200  |  | 103 | 78.8-127 | 6.84 | 15.1 |  |
| DRO >C10-C28                         | 230  | 10.0 | mg/kg | 200  |  | 115 | 80-132   | 2.94 | 17.1 |  |
| Total TPH C6-C28                     | 435  | 10.0 | mg/kg | 400  |  | 109 | 81.3-128 | 4.80 | 15   |  |
| <i>Surrogate: 1-Chlorooctane</i>     | 66.0 |      | mg/kg | 50.0 |  | 132 | 44.3-144 |      |      |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | 70.7 |      | mg/kg | 50.0 |  | 141 | 42.2-156 |      |      |  |

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*Celey D. Keene*

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 Corporation</u><br>Project Manager: <u>Gene Davis</u>  |       | P.O. #: _____<br>Company: _____<br>Attn: _____<br>Address: _____<br>City: _____ State: _____ Zip: _____<br>Phone #: _____ Fax #: _____<br>Project Owner: _____<br>State: _____ Zip: _____<br>Phone #: _____ Fax #: _____ |              |             |            |      |     |        |         |            |            |         |         |      |      |      |          |   |  |  |  |  |  |
| Address: _____<br>City: _____ State: _____ Zip: _____<br>Phone #: _____ Fax #: _____<br>Project #: _____<br>Project Name: <u>EBB 37 WTR NEDU 4A *</u><br>Project Location: <u>EBB 37 WTR NEDU 4A</u> |       | Sample Name: <u>J. Brown</u><br>FOR LAB USE ONLY   |              |             |            |      |     |        |         |            |            |         |         |      |      |      |          |   |  |  |  |  |  |
| Lab I.D. <u>H001598</u><br>Sample I.D.   | 1 W2  | (G)RAB OR (C)OMP.  | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE    | TIME | CL - | BTEX | EXT. TPH |   |  |  |  |  |  |
|  | 2 W3  | C  |              |             |            |      |     |        |         |            |            |         | 6/16/20 | 0935 | ✓    | ✓    | ✓        |   |  |  |  |  |  |
|  | 3 W4  | C  |              |             |            |      |     |        |         |            |            |         |         | 0937 | ✓    | ✓    | ✓        |   |  |  |  |  |  |
|  | 4 W7  | C  |              |             |            |      |     |        |         |            |            |         |         | 1129 | ✓    | ✓    | ✓        |   |  |  |  |  |  |
|  | 5 W8  | C  |              |             |            |      |     |        |         |            |            |         |         | 1000 | ✓    | ✓    | ✓        |   |  |  |  |  |  |
|  | 6 W9  | C  |              |             |            |      |     |        |         |            |            |         |         | 1050 | ✓    | ✓    | ✓        |   |  |  |  |  |  |
|  | 7 W5  | C  |              |             |            |      |     |        |         |            |            |         |         | 1151 | ✓    | ✓    | ✓        |   |  |  |  |  |  |
|  | 8 W16 | C  |              |             |            |      |     |        |         |            |            |         |         |      |      | ✓    | ✓        | ✓ |  |  |  |  |  |
|  | 9 W17 | C  |              |             |            |      |     |        |         |            |            |         |         | 1216 |      | ✓    | ✓        | ✓ |  |  |  |  |  |

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Relinquished By: \_\_\_\_\_ Date: 6/16/20 Received By: \_\_\_\_\_  
 Time: 1553

Delivered By: (Circle One) Observed Temp. °C \_\_\_\_\_ Corrected Temp. °C \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_

Sample Condition: Cool Intact  Yes  No  
 Checked By: (Initials) HS

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

REMARKS: \*Project name changed as per JLF. 6/22/20. CL



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

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June 24, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 06/19/20 13:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: W 18 (H001635-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 216 | 108        | 200           | 7.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/20/2020 | ND              | 220 | 110        | 200           | 6.73 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/20/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: W 19 (H001635-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 216 | 108        | 200           | 7.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/20/2020 | ND              | 220 | 110        | 200           | 6.73 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/20/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: W 20 (H001635-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 216 | 108        | 200           | 7.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/20/2020 | ND              | 220 | 110        | 200           | 6.73 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/20/2020 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: W 21 (H001635-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 209 | 104        | 200           | 4.46  |           |
| <b>DRO &gt;C10-C28*</b>    | <b>154</b>  | 10.0            | 06/20/2020 | ND              | 238 | 119        | 200           | 0.420 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>16.5</b> | 10.0            | 06/20/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 129 % 44.3-144

Surrogate: 1-Chlorooctadecane 154 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 22 (H001635-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 209 | 104        | 200           | 4.46  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/20/2020 | ND              | 238 | 119        | 200           | 0.420 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/20/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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

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June 24, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 06/19/20 13:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 24 (H001636-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 209 | 104        | 200           | 4.46  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/20/2020 | ND              | 238 | 119        | 200           | 0.420 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/20/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 25 (H001636-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>112</b> | 16.0            | 06/22/2020 | 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            | 06/20/2020 | ND              | 209 | 104        | 200           | 4.46  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/20/2020 | ND              | 238 | 119        | 200           | 0.420 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/20/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 26 (H001636-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>144</b> | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 06/20/2020 | ND              | 209 | 104        | 200           | 4.46  |           |
| <b>DRO &gt;C10-C28*</b> | <b>13.6</b> | 10.0            | 06/20/2020 | ND              | 238 | 119        | 200           | 0.420 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/20/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 140 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 27 (H001636-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  | QR-03     |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 28 (H001636-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 224    | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 29 (H001636-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 30 (H001636-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 31 (H001636-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>96.0</b> | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| <b>DRO &gt;C10-C28*</b> | <b>39.2</b> | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 32 (H001636-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.72 |           |
| Toluene*       | <0.050 | 0.050           | 06/22/2020 | ND              | 1.95 | 97.5       | 2.00          | 5.85 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/22/2020 | ND              | 1.99 | 99.5       | 2.00          | 5.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/22/2020 | ND              | 5.80 | 96.6       | 6.00          | 5.46 |           |
| Total BTEX     | <0.300 | 0.300           | 06/22/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 33 (H001636-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.03 | 102        | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.04 | 102        | 2.00          | 4.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/24/2020 | ND              | 2.07 | 104        | 2.00          | 4.22 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/24/2020 | ND              | 6.01 | 100        | 6.00          | 4.21 |           |
| Total BTEX     | <0.300 | 0.300           | 06/24/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 34 (H001636-11)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.03 | 102        | 2.00          | 5.21 |           |
| Toluene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.04 | 102        | 2.00          | 4.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/24/2020 | ND              | 2.07 | 104        | 2.00          | 4.22 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/24/2020 | ND              | 6.01 | 100        | 6.00          | 4.21 |           |
| Total BTEX     | <0.300 | 0.300           | 06/24/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |
| <b>DRO &gt;C10-C28*</b> | <b>18.5</b> | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/19/2020 | Sampling Date:      | 06/19/2020     |
| Reported:         | 06/24/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 35 (H001636-12)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.03 | 102        | 2.00          | 5.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.04 | 102        | 2.00          | 4.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/24/2020 | ND              | 2.07 | 104        | 2.00          | 4.22 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/24/2020 | ND              | 6.01 | 100        | 6.00          | 4.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/24/2020 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*                | <10.0       | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |  |
| <b>DRO &gt;C10-C28*</b>    | <b>241</b>  | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |  |
| <b>EXT DRO &gt;C28-C36</b> | <b>40.0</b> | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2020  
 Reported: 06/24/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 06/19/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 36 (H001636-13)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.03 | 102        | 2.00          | 5.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/24/2020 | ND              | 2.04 | 102        | 2.00          | 4.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/24/2020 | ND              | 2.07 | 104        | 2.00          | 4.22 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/24/2020 | ND              | 6.01 | 100        | 6.00          | 4.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/24/2020 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 06/22/2020 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*             | <10.0       | 10.0            | 06/22/2020 | ND              | 216 | 108        | 200           | 1.38  |           |  |
| <b>DRO &gt;C10-C28*</b> | <b>36.4</b> | 10.0            | 06/22/2020 | ND              | 214 | 107        | 200           | 0.714 |           |  |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 06/22/2020 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celestine 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>Maize Corporation</i><br>Project Manager: <i>Grace Baker</i><br>Address:<br>City: State: Zip:<br>Phone #: Fax #:<br>Project #: Project Owner:<br>Project Name: <i>Medu 4A</i><br>Project Location: <i>Medu 4A</i><br>Sampler Name: <i>J. Brown</i> |  | P.O. #:<br>Company:<br>Attn:<br>Address:<br>City: State: Zip:<br>Phone #: Fax #:<br>Project #: Project Owner:<br>Project Name: <i>Medu 4A</i><br>Project Location: <i>Medu 4A</i><br>Sampler Name: <i>J. Brown</i> |  |
| <b>BILL TO</b>  |  |  |  |
| <b>ANALYSIS REQUEST</b>   |  |  |  |
| Lab I.D. <b>H001636</b><br>Sample I.D.  |  | (G)RAB OR (C)OMP.<br># CONTAINERS<br>MATRIX:<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER :<br>ACID/BASE:<br>ICE / COOL<br>OTHER :   | DATE<br>TIME<br>CL<br>BTEX<br>EXT. TPH   |
| 11 B34<br>12 B35<br>13 B36  |  | C<br>C<br>C  | 6/19/20 1140<br>6/19/20 1142<br>6/19/20 1144   |
| Relinquished By: <i>Jen Brown</i><br>Date: <i>6/19/20</i><br>Time: <i>1337</i>  |  | Received By: <i>Jessica Schaberg</i><br>Date: _____<br>Time: _____   |  |
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other:  |  | Observed Temp. °C <i>38</i><br>Corrected Temp. °C  | Sample Condition<br>Cool Intact<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Checked By: (Initials) <i>JP.</i>  |
| Turnaround Time: _____<br>Thermometer ID #113<br>Correction Factor None   |  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____<br>All Results are emailed. Please provide Email address: _____                              | Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/><br>Bacteria (only) Sample Condition<br>Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/><br>Observed Temp. °C<br>Corrected Temp. °C |
| REMARKS:  |  |  |  |

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



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

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June 29, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 06/26/20 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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: 06/26/2020  
 Reported: 06/29/2020  
 Project Name: NEDU 4A  
 Project Number: NEDU 4A  
 Project Location: NEDU 4A

Sampling Date: 06/26/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 1 (H001684-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

| Analyte         | Result      | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
|-----------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| <b>Chloride</b> | <b>80.0</b> | 16.0            | 06/29/2020 | ND           | 416 | 104        | 400           | 3.77 |           |

**Sample ID: B 6 (H001684-02)****BTEX 8021B****mg/kg****Analyzed By: MS**

| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Benzene*       | <0.050 | 0.050           | 06/27/2020 | ND           | 1.92 | 96.0       | 2.00          | 0.265 |           |
| Toluene*       | <0.050 | 0.050           | 06/27/2020 | ND           | 1.92 | 96.1       | 2.00          | 0.437 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/27/2020 | ND           | 1.96 | 98.2       | 2.00          | 0.215 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/27/2020 | ND           | 5.73 | 95.5       | 6.00          | 0.162 |           |
| Total BTEX     | <0.300 | 0.300           | 06/27/2020 | ND           |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

**TPH 8015M****mg/kg****Analyzed By: MS**

| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| GRO C6-C10*      | <10.0  | 10.0            | 06/29/2020 | ND           | 191 | 95.4       | 200           | 0.529 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2020 | ND           | 176 | 88.1       | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2020 | ND           |     |            |               |       |           |

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 140 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/26/2020 | Sampling Date:      | 06/26/2020     |
| Reported:         | 06/29/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NEDU 4A    | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 7 (H001684-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/27/2020 | ND              | 1.92 | 96.0       | 2.00          | 0.265 |           |
| Toluene*       | <0.050 | 0.050           | 06/27/2020 | ND              | 1.92 | 96.1       | 2.00          | 0.437 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/27/2020 | ND              | 1.96 | 98.2       | 2.00          | 0.215 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/27/2020 | ND              | 5.73 | 95.5       | 6.00          | 0.162 |           |
| Total BTEX     | <0.300 | 0.300           | 06/27/2020 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/29/2020 | ND              | 191 | 95.4       | 200           | 0.529 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2020 | ND              | 176 | 88.1       | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 137 % 42.2-156

**Sample ID: B 10 (H001684-04)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 06/29/2020 | ND              | 416 | 104        | 400           | 3.77 |           |

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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:         | 06/26/2020 | Sampling Date:      | 06/26/2020     |
| Reported:         | 06/29/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NEDU 4A    | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 12 (H001684-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/27/2020 | ND              | 1.92 | 96.0       | 2.00          | 0.265 |           |
| Toluene*       | <0.050 | 0.050           | 06/27/2020 | ND              | 1.92 | 96.1       | 2.00          | 0.437 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/27/2020 | ND              | 1.96 | 98.2       | 2.00          | 0.215 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/27/2020 | ND              | 5.73 | 95.5       | 6.00          | 0.162 |           |
| Total BTEX     | <0.300 | 0.300           | 06/27/2020 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 06/29/2020 | 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            | 06/29/2020 | ND              | 191 | 95.4       | 200           | 0.529 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2020 | ND              | 176 | 88.1       | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/26/2020  
 Reported: 06/29/2020  
 Project Name: NEDU 4A  
 Project Number: NEDU 4A  
 Project Location: NEDU 4A

Sampling Date: 06/26/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 13 (H001684-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/27/2020 | ND              | 1.92 | 96.0       | 2.00          | 0.265 |           |
| Toluene*       | <0.050 | 0.050           | 06/27/2020 | ND              | 1.92 | 96.1       | 2.00          | 0.437 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/27/2020 | ND              | 1.96 | 98.2       | 2.00          | 0.215 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/27/2020 | ND              | 5.73 | 95.5       | 6.00          | 0.162 |           |
| Total BTEX     | <0.300 | 0.300           | 06/27/2020 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 06/29/2020 | 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            | 06/29/2020 | ND              | 191 | 95.4       | 200           | 0.529 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2020 | ND              | 176 | 88.1       | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |            |                     |                |
|-------------------|------------|---------------------|----------------|
| Received:         | 06/26/2020 | Sampling Date:      | 06/26/2020     |
| Reported:         | 06/29/2020 | Sampling Type:      | Soil           |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NEDU 4A    | Sample Received By: | Tamara Oldaker |
| Project Location: | NEDU 4A    |                     |                |

**Sample ID: B 15 (H001684-07)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>16.0</b> | 16.0            | 06/29/2020 | ND              | 416 | 104        | 400           | 3.77 |           |

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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

- 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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Cardinal Laboratories

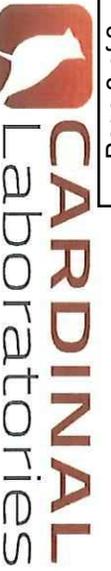
\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|  |  |                   |  |             |  |                  |  |
|--|--|-------------------|--|-------------|--|------------------|--|
| Company Name: <i>Apach Corporation</i> |  | P.O. #:           |  | BILL TO     |  | ANALYSIS REQUEST |  |
| Project Manager: <i>Grace Baker</i>    |  | Company:          |  |             |  |                  |  |
| Address:                               |  | Attn:             |  |             |  |                  |  |
| City:                                  |  | Address:          |  |             |  |                  |  |
| State:                                 |  | City:             |  |             |  |                  |  |
| Zip:                                   |  | State:            |  |             |  |                  |  |
| Phone #:                               |  | Fax #:            |  |             |  |                  |  |
| Project #:                             |  | Project Owner:    |  |             |  |                  |  |
| Project Name: <i>NEDE 4A</i>           |  | City:             |  |             |  |                  |  |
| Project Location: <i>NEDE 4A</i>       |  | State:            |  |             |  |                  |  |
| Zip:                                   |  | Phone #:          |  |             |  |                  |  |
| Fax #:                                 |  | Zip:              |  |             |  |                  |  |
| Sampler Name: <i>Jeff Brown</i>        |  | Fax #:            |  |             |  |                  |  |
| FOR LAB USE ONLY                       |  | PRESERV:          |  | SAMPLING    |  |                  |  |
| Lab I.D. <i>H061684</i>                |  | Sample I.D.       |  |             |  |                  |  |
|  |  | (G)RAB OR (C)OMP. |  |             |  |                  |  |
|  |  | # CONTAINERS      |  |             |  |                  |  |
|  |  | GROUNDWATER       |  |             |  |                  |  |
|  |  | WASTEWATER        |  |             |  |                  |  |
|  |  | SOIL              |  |             |  |                  |  |
|  |  | OIL               |  |             |  |                  |  |
|  |  | SLUDGE            |  |             |  |                  |  |
|  |  | OTHER :           |  |             |  |                  |  |
|  |  | ACID/BASE:        |  |             |  |                  |  |
|  |  | ICE / COOL        |  |             |  |                  |  |
|  |  | OTHER :           |  |             |  |                  |  |
|  |  | DATE              |  | TIME        |  |                  |  |
| <i>1</i>                               |  | <i>6/26/20</i>    |  | <i>1303</i> |  | <i>CL-</i>       |  |
| <i>2</i>                               |  | <i>6/26/20</i>    |  | <i>1303</i> |  | <i>BTEX</i>      |  |
| <i>3</i>                               |  | <i>6/26/20</i>    |  | <i>1304</i> |  | <i>EXT. 704</i>  |  |
| <i>4</i>                               |  | <i>6/26/20</i>    |  | <i>1306</i> |  |                  |  |
| <i>5</i>                               |  | <i>6/26/20</i>    |  | <i>1324</i> |  |                  |  |
| <i>6</i>                               |  | <i>6/26/20</i>    |  | <i>1326</i> |  |                  |  |
| <i>7</i>                               |  | <i>6/26/20</i>    |  | <i>1328</i> |  |                  |  |

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Relinquished By: *Jeff Brown* Date: *6/26/20* Received By: *Juanita Roberts* Date: *6/26/20*

Delivered By: (Circle One) Observed Temp. °C *2.0* Sample Condition Cool Intact  Yes  No  Intact  Yes  No CHECKED BY: (Initials) *YO*

Sampler - UPS - Bus - Other: Corrected Temp. °C Turnaround Time: Standard  Rush  Bacteria (only) Sample Condition Cool Intact  Yes  No  Intact  Yes  No Observed Temp. °C Corrected Temp. °C

Thermometer ID #113 Correction Factor None

REMARKS:

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

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



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

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July 28, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 07/28/20 12:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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: 07/28/2020  
 Reported: 07/28/2020  
 Project Name: NEDU 4A  
 Project Number: NONE GIVEN  
 Project Location: NEDU 4A

Sampling Date: 07/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 35 (H001952-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/28/2020 | ND              | 1.83 | 91.5       | 2.00          | 4.16 |           |
| Toluene*       | <0.050 | 0.050           | 07/28/2020 | ND              | 1.85 | 92.5       | 2.00          | 3.95 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/28/2020 | ND              | 1.86 | 93.0       | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/28/2020 | ND              | 5.33 | 88.9       | 6.00          | 3.97 |           |
| Total BTEX     | <0.300 | 0.300           | 07/28/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 07/28/2020 | ND              | 208 | 104        | 200           | 0.448 |           |
| <b>DRO &gt;C10-C28*</b> | <b>25.1</b> | 10.0            | 07/28/2020 | ND              | 200 | 99.8       | 200           | 1.20  |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 07/28/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

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Celey D. Keene, Lab Director/Quality Manager





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August 25, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 4A

Enclosed are the results of analyses for samples received by the laboratory on 08/24/20 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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:         | 08/24/2020 | Sampling Date:      | 08/24/2020    |
| Reported:         | 08/25/2020 | Sampling Type:      | Soil          |
| Project Name:     | NEDU 4A    | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN | Sample Received By: | Jodi Henson   |
| Project Location: | NEDU 4A    |                     |               |

**Sample ID: W 21 (H002223-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/24/2020 | ND              | 2.06 | 103        | 2.00          | 3.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/24/2020 | ND              | 2.06 | 103        | 2.00          | 4.18 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/24/2020 | ND              | 2.04 | 102        | 2.00          | 3.97 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/24/2020 | ND              | 5.90 | 98.4       | 6.00          | 4.08 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/24/2020 | ND              |      |            |               |      |           |  |

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

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 08/24/2020 | ND              | 183 | 91.6       | 200           | 6.67 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/24/2020 | ND              | 182 | 91.0       | 200           | 5.19 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/24/2020 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



Photos











303 Veterans Airpark Lane Midland, TX 79705

**Variance Request**

Apache Corporation request a variance to the reclamation rule regarding the top four feet being top soil. The surface landowner requested that the excavation be backfilled to a depth of 2 feet with caliche and utilizing the natural top soil from the edges of the excavation to cover the caliche.