



April 26, 2023

New Mexico Oil Conservation Division
5200 Oakland Avenue, N.E., Suite 100
Albuquerque, New Mexico 87113

RE: Incident Deferral Request
nAPP2203953141-NVA 131 (2022) Release

Dear Reviewer,

This letter is to request deferral of remediation at the NVA 131 Tank Battery associated with Incident nAPP2203953141. While it is understood that a deferral does not relieve Cross Timbers of the requirement to remediate the impact area and the pad to the specific closure standards outlined 19.15.29.13 NMAC, remediation beyond the cleanup efforts to date is impractical, unsafe, and not cost effective at this time.

The attached files outline specific deferral points along with site delineation efforts and associated laboratory analysis.

If you have any questions regarding this request, please contact Alan Kane with Kane Environmental Engineering Inc. at (281) 370-6580 or email: alanjkane@comcast.net or Russell Hamm at (918) 693-4833 or email: rhammenviro@gmail.com.

Respectfully,

A handwritten signature in black ink that reads "Russell Hamm". The signature is fluid and cursive.

Russell Hamm
Environmental Specialist
Kane Environmental Engineering, Inc.

Enclosures
cc: Cross Timbers Energy
File

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2203953141
District RP	
Facility ID	
Application ID	79780

Release Notification

Responsible Party

Responsible Party	CROSS TIMBERS ENERGY, LLC	OGRID	298299
Contact Name	SAMANNTHA AVARELLO	Contact Telephone	817-334-7747
Contact email	SAVARELLO@TXOENERGY.COM	Incident # (assigned by OCD)	nAPP2203953141
Contact mailing address	400 W 7TH STREET, FORT WORTH, TX 76102		

Location of Release Source

Latitude 32.846337 Longitude -103.535883
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	NORTH VACUUM ABO 131 BTY	Site Type	FACILITY
Date Release Discovered	02/04/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
M	11	17S	34E	LEA

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	80	Volume Recovered (bbls)	66
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

DIRECT LINE ON LACT UNIT FROZE AND BUSTED, RELEASING OIL IN TANK IN SIDE OF BERM

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ONLINE NOR SUBMITTED	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>SAMANNTHA AVARELLO</u>	Title: <u>EHS TECH</u>
Signature: _____	Date: <u>02/08/2022</u>
email: <u>SAVARELLO@MSPARTNERS.COM</u>	Telephone: <u>817-334-7747</u>
<u>OCD Only</u> Received by: _____ Date: _____	

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Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	105' (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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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: Samantha Avarello Title: EHS Coordinator

Signature: *Samantha Avarello* Date: 03/20/2023

email: savarello@txoenergy.com Telephone: 817-334-7747

OCD Only

Received by: Jocelyn Harimon Date: 04/28/2023

Incident ID	nAPP2203953141
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Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Samanntha Avarello Title: EHS Coordinator
 Signature: Samanntha Avarello Date: 03/20/2023
 email: savarello@txoenergy.com Telephone: 817-334-7747

OCD Only

Received by: Jocelyn Harimon Date: 04/28/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Nelson Velez Date: 07/20/2023

Incident ID	nAPP2203953141
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Sampling Event Results & Deferral Request Lea County, New Mexico

NVA 131 (2022) Battery Release nAPP2203953141

Prepared for:



**400 W 7th St,
Fort Worth, TX 76102**



**PREPARED BY:
KANE ENVIRONMENTAL ENGINEERING, INC.
2351 EAST STATE HIGHWAY 21
Lincoln, TX 78948
REGISTRATION # F-2355
PROJECT No. 23-131**

MARCH 2023

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1.0 INTRODUCTION

1.0 INTRODUCTION

On February 4, 2022 Cross Timbers Energy discovered a frozen and leaking LACT Direct line inside of the NVA 131 Battery Berm. The leak released approximately 80bbbls of oil. A vacuum truck picked up approximately all 66bbbls of the released oil with the volume based on its return to an onsite storage tank where measurements were taken. The release was reported to the OCD on February 8, 2022 on Form C-141 as required.

The location of this release makes remediation efforts beyond what has already been completed in the cleanup extremely difficult and uneconomical. The area impacted by the release requesting deferral is within a tank battery berm, surrounded by fencing, between storage tanks, and in an area with surface and subsurface lines that prevent the use of mechanical equipment and limit the safety of hand digging. Sample points were based on the few points equipment could access.

A site investigation and sampling event took place on the week of 2/13/2023 to fully delineate the impacts in accordance with 19.15.29.12 NMAC (C)(2) prior to requesting deferral. North Vacuum BAO Unit WSW 101 and the recently completed DTW1 wells were utilized to determine depth to groundwater in the area and compare the analysis to the Table I requirements. DTW 1 is approximately 0.7 miles Northwest of the NVA 131 Battery release area. Detailed information about this well can be found in **Appendix G**.

2.0 FIELD ACTIVITIES

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2.1 Sampling Procedures

NVA 131 Battery -Lea County

Soil - Soil samples were collected using a skid steer equipped with a hydraulic auger. Augured samples were collected in 1-foot intervals at depths from surface to 4-feet below ground surface (bgs). Without major deconstruction of the facility additional sampling beyond what has been completed is not possible. The samples were placed in the appropriate sample containers, labeled, and placed on ice.

All the samples were transported under Chain of Custody Record and Relinquished to Cardinal Laboratories.

2.2 Decontamination Procedures

Soil - The auger was cleaned using a pressure washer between sample intervals and sample locations.

2.3 Site Specific Sampling Activities

The specific sampling procedures and activities used to collect samples are provided below.

NVA 131 Battery:

Spill Accumulation Area - Soil samples were collected using a skid steer equipped with a hydraulic auger. Samples were collected in 1-foot intervals at depths from surface to 4 feet below ground surface (bgs).

Samples were collected in the bermed area and around the LACT line where the release occurred to fully delineate the drainage area and area of known pooling. Sampling location and approximate impact maps are provided in **Appendix A**. Each sample point was cataloged with a Trimble GPS unit utilizing WGS84 Datum information. A location catalog is provided in **Appendix F**.

Each sample was analyzed for Chlorides, Total Petroleum Hydrocarbons (TPH GRO+DRO+MRO) & (TPH GRO+DRO) and Benzene, Toluene, Ethylbenzene, mixed isomer Xylenes (BTEX) utilizing the following required methods:

Chloride	EPA 300.0 or SM4500 Cl B
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M
GRO+DRO	EPA SW-846 Method 8015M
BTEX	EPA SW-846 Method 8021B or 8260B
Benzene	EPA SW-846 Method 8021B or 8260B

3.0 PROPOSED DEFERRAL

3.0 PROPOSED DEFERRAL

Following receipt of the analytical data, a detailed comparison was made with respect to the 19.15.29.12 NMAC Table I-Closure Criteria for Soils Impacted by a Release (**Appendix C**).

As a result of the review, some constituents of concern are above the >100 feet to ground water regulator limit. Additionally, several do not meet the more stringent closure standard of 19.15.29.13 NMAC which states: The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg (or the most stringent standards of the Table I).

- Sample Points **NVA 131 (2022) A and NVA 131 (2022) B** reflect the area of the concentrated pooling (near the release) and exceed the regulatory closure limit for the majority of the constituents. However, **NVA 131 (2022) A** only exceed the total TPH (GRO+DRO +MRO) by 22mg/kg at the four-foot interval with no other exceedances at this depth and **NVA 131 (2022) B** reflects the closure standard for all required constituents at the four-foot depth.
- Sample Point **NVA 131 (2022) E** exceeds the total TPH (GRO+DRO +MRO) at both the surface to one-foot and two to three-foot intervals but does not exceed any other closure standards and reflects the closure standard for all required constituents at the four-foot depth.
- Sample Point **NVA 131 (2022) F and NVA 131 G (2022) B** only exceed the total TPH (GRO+DRO +MRO) at the surface to one-foot interval but do not exceed any other closure standards and reflect the closure standard for all required constituents at all other depths.

Deferral Points Requested:

NVA 131 2002 A
NVA 131 2002 B
NVA 131 2002 E
NVA 131 2002 F
NVA 131 2002 G

Clean Sample Points Requiring NO ACTION:

South Water Station C
South Water Station D

The total impact area is approximately 2400 square feet. The analysis from **NVA 131 (2022) C and NVA 131 D** demonstrates an area of clean soils between the two berms that does not require any additional actions. The remaining impacts in the Western berm around **NVA 131 (2022) A and NVA 131 (2022) B** is approximately 600 square feet and requires remediation to a depth at least four feet. Upon facility closure this will require remediation of approximately 89 cubic yards. The remaining impacts in the

Eastern berm around **NVA 131 (2022) E, NVA 131 (2022) F, and NVA 131 (2022) G** is approximately 600 square feet and requires remediation to a varying depth from one to three-feet. Upon facility closure this will require remediation of approximately 45 cubic yards.

Provided photographs (**Appendix B**) demonstrate the contaminated soil is located in areas immediately under or around production equipment allowing deferral in accordance with 19.15.29.12 NMAC (C)(2) and where remediation could cause a major facility deconstruction. Additionally, this document reflects that the contamination is delineated and does not cause an imminent risk to human health, the environment, or ground water. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

Appendix A

APPENDIX A-KEY

Topographic and Satellite Imagery Scaled Maps of Approximate Impact area and Sample Locations

-  -Clean sample point from surface to 4' according to 19.15.29.13 NMAC (as confirmed by supplied lab analysis)
-  -Sample point from surface to 4' exceeds the Table I closure criteria according to 19.15.29.13 NMAC for the top four feet of non-waste containing material but, is below the closure standard for a release with ground water >100' BGS (as confirmed by supplied lab analysis)
-  -Sample point from surface to 4' exceeds the Table I closure criteria for soil impacted by a release with ground water >100' BGS (as confirmed by supplied lab analysis)

Note: Yellow and Red impact markers are for information only and would only have a bearing on impacts below four-feet. It is understood that all materials from surface to a depth of four feet will need to meet the 19.15.29.13 NMAC closure standard: The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg (or the most stringent standards of the Table I).



-Initial impact area as reported by the submitted C-141



-Requested deferral area



Mercator Projection
WGS84
UTM Zone 13S


0.1 km
mi
Scale **1:1000** 1 inch = 83 feet





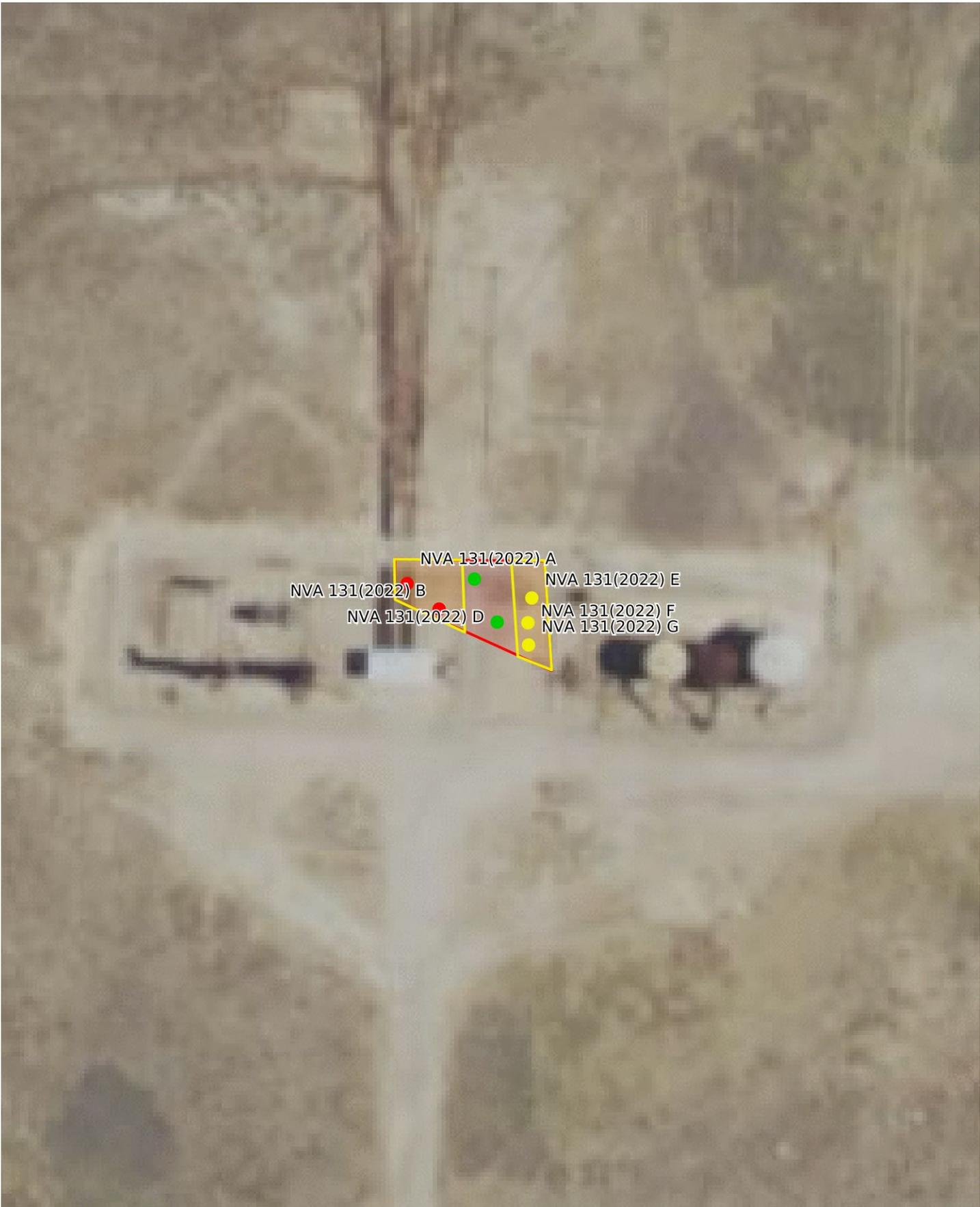
Mercator Projection
WGS84
UTM Zone 13S




Scale **1:1000** 1 inch = 83 feet



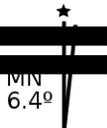
MN
6.4°



Mercator Projection
WGS84
UTM Zone 13S


km
mi

Scale **1:600** 1 inch = 50 feet



Appendix B

Appendix B -Sampling Event Photographs



Appendix B -Sampling Event Photographs



Appendix C

NVA 131 (2022) Release-nAPP2203953141-Project 23-131

Cardinal Labs 2/22/2023 Reports

Table I of 19.15.29.12 NMAC-Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS

Constituent	Chloride***	TPH (GRO+DRO+MRO)	GRO+DRO	BTEX	Benzene
Reg-Limit ->100 feet to GW	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Reg-Limit -<50 feet to GW	600 mg/kg	100 mg/kg	NA	50 mg/kg	10 mg/kg
Sample:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NVA 131(2022) A-1	624	7478	6228	56.9	2.08
NVA 131(2022) A-2	592	3144	2827	228	14.6
NVA 131(2022) A-3	416	1365	1256	160	8.62
NVA 131(2022) A-4	352	122	122	9.58	0.241
NVA 131(2022) B-1	368	4510	3410	<0.300	0.068
NVA 131(2022) B-2	384	2820	2170	<0.300	<0.050
NVA 131(2022) B-3	112	586.6	492	<0.300	<0.050
NVA 131(2022) B-4	128	42.8	42.8	<0.300	<0.050
NVA 131(2022) C-1	112	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) C-2	64	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) C-3	80	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) C-4	16	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) D-1	48	36.2	17	<0.300	<0.050
NVA 131(2022) D-2	48	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) D-3	32	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) D-4	80	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) E-1	160	112.3	58.1	<0.300	<0.050
NVA 131(2022) E-2	144	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) E-3	80	140.4	75.6	<0.300	<0.050
NVA 131(2022) E-4	48	60.2	32.9	<0.300	<0.050
NVA 131(2022) F-1	304	591	278	<0.300	<0.050
NVA 131(2022) F-2	336	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) F-3	192	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) F-4	112	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) G-1	272	336	181	<0.300	<0.050
NVA 131(2022) G-2	160	12.1	12.1	<0.300	<0.050
NVA 131(2022) G-3	48	<10.0	<10.0	<0.300	<0.050
NVA 131(2022) G-4	48	<10.0	<10.0	<0.300	<0.050

Green cells are non-waste containing sample points according to 19.15.29.13 NMAC
 Yellow cells exceed the Table I closure criteria according to 19.15.29.13 NMAC for the top four feet of non-waste containing material but, are below the closure standard for a release with ground water >100' BGS

Red cells exceed the surface to 4' Table I closure criteria for soil impacted by a release with ground water >100' BGS

Chloride*** ***This applies to releases of produced water or other fluids, which may contain chlorid

Chloride*** EPA 300.0 or SM4500 Cl B

TPH (GRO+DRO+MRO) EPA SW-846 Method 8015M

GRO+DRO EPA SW-846 Method 8015M

BTEX EPA SW-846 Method 8021B or 8260B

Benzene EPA SW-846 Method 8021B or 8260B

Appendix D



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

February 21, 2023

ALAN KANE

KANE ENVIROMENTAL

8816 BIG VIEW DRIVE

AUSTIN, TX 78730

RE: NVA 131 2022

Enclosed are the results of analyses for samples received by the laboratory on 02/15/23 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 A 1' (H230714-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.08	0.500	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	16.0	0.500	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	8.89	0.500	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	29.9	1.50	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	56.9	3.00	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/17/2023	ND	400	100	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*	708	50.0	02/17/2023	ND	192	96.0	200	0.151		
DRO >C10-C28*	6150	50.0	02/17/2023	ND	189	94.5	200	2.14		
EXT DRO >C28-C36	1250	50.0	02/17/2023	ND						

Surrogate: 1-Chlorooctane 145 % 48.2-134

Surrogate: 1-Chlorooctadecane 413 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 A 2' (H230714-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.6	0.500	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	87.2	0.500	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	57.0	0.500	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	68.8	1.50	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	228	3.00	02/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/17/2023	ND	400	100	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*	907	50.0	02/17/2023	ND	192	96.0	200	0.151		
DRO >C10-C28*	1920	50.0	02/17/2023	ND	189	94.5	200	2.14		
EXT DRO >C28-C36	317	50.0	02/17/2023	ND						

Surrogate: 1-Chlorooctane 162 % 48.2-134

Surrogate: 1-Chlorooctadecane 196 % 49.1-148

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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 A 3' (H230714-03)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.62	0.500	02/21/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	60.3	0.500	02/21/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	35.5	0.500	02/21/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	55.9	1.50	02/21/2023	ND	6.23	104	6.00	6.25	
Total BTEX	160	3.00	02/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/17/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	413	50.0	02/17/2023	ND	192	96.0	200	0.151	
DRO >C10-C28*	843	50.0	02/17/2023	ND	189	94.5	200	2.14	
EXT DRO >C28-C36	109	50.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 A 4' (H230714-04)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.241	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	2.54	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	2.60	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	4.20	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	9.58	0.300	02/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/17/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.8	10.0	02/20/2023	ND	211	106	200	4.60	QM-07, QR-03
DRO >C10-C28*	91.2	10.0	02/20/2023	ND	225	113	200	5.66	QR-03
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 B 1' (H230714-05)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.068	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	0.093	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/17/2023	ND	400	100	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	02/20/2023	ND	211	106	200	4.60		
DRO >C10-C28*	3410	50.0	02/20/2023	ND	225	113	200	5.66		
EXT DRO >C28-C36	1100	50.0	02/20/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 284 % 49.1-148

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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 B 2' (H230714-06)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/17/2023	ND	400	100	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	02/20/2023	ND	211	106	200	4.60		
DRO >C10-C28*	2170	50.0	02/20/2023	ND	225	113	200	5.66		
EXT DRO >C28-C36	650	50.0	02/20/2023	ND						

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 215 % 49.1-148

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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 B 3' (H230714-07)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/17/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	492	50.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	94.6	50.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: NVA 131 2022
 Project Number: 23-121
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NVA 131-22 B 4' (H230714-08)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/17/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	42.8	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 C 1' (H230714-09)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/17/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 C 2' (H230714-10)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/17/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 57.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 C 3' (H230714-11)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 C 4' (H230714-12)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 D 1' (H230714-13)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	17.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	19.2	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 D 2' (H230714-14)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 D 3' (H230714-15)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 56.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/15/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NVA 131 2022	Sampling Condition:	Cool & Intact
Project Number:	23-121	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NVA 131-22 D 4' (H230714-16)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	1.96	97.9	2.00	7.74	
Toluene*	<0.050	0.050	02/20/2023	ND	1.93	96.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	02/20/2023	ND	2.05	103	2.00	7.03	
Total Xylenes*	<0.150	0.150	02/20/2023	ND	6.23	104	6.00	6.25	
Total BTEX	<0.300	0.300	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	211	106	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Kane Env. Engr. Inc.
 Project Manager: Russell Hamn
 Address: 2351 East Highway 21
 City: Lincoln State: TX Zip: 78946
 Phone #: 281 639 9590 Fax #: _____
 Project #: 23-121 Project Owner: _____
 Project Name: NVA131 2022
 Project Location: _____
 Sampler Name: Billy Steele
 P.O. #: _____ Company: SAR
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	X	f	Xf	S	S	S	S
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :										
H230714																			
11	NVA 131-22 C3'	B									12-14-22	2:15pm	X	f	Xf	S	S	S	S
12	NVA 131-22 C4'	B										2:45pm	X	f	Xf	S	S	S	S
13	NVA 131-22 D1'	G										3:15pm	X	f	Xf	S	S	S	S
14	NVA 131-22 D2'	G										3:45pm	X	f	Xf	S	S	S	S
15	NVA 131-22 D3'	G										4:15pm	X	f	Xf	S	S	S	S
16	NVA 131-22 D4'	G										4:45pm	X	f	Xf	S	S	S	S

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Relinquished By: Alan Khan Date: 2/15/23 Received By: Samuel [Signature]
 Time: 9:45A
 Date: 2-15-23 Time: 9:50
 Observed Temp. °C: 0.3 Corrected Temp. °C: -0.3
 Sample Condition: Cool Intact
 Checked By: [Signature] (Initials) AB
 Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition
 Correction Factor -0.6°C Yes No Yes No Yes No No No
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 Remarks: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____
 Observed Temp. °C: _____ Corrected Temp. °C: _____
 Sample Condition: Cool Intact
 Checked By: _____ (Initials) _____
 Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition
 Correction Factor -0.6°C Yes No Yes No Yes No No No

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



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

February 22, 2023

ALAN KANE

KANE ENVIROMENTAL

8816 BIG VIEW DRIVE

AUSTIN, TX 78730

RE: NAU 131-22

Enclosed are the results of analyses for samples received by the laboratory on 02/16/23 8:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 G 1' (H230729-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03		
DRO >C10-C28*	181	10.0	02/21/2023	ND	230	115	200	5.27	QM-07	
EXT DRO >C28-C36	155	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 G 2' (H230729-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	209	104	200	6.03		
DRO >C10-C28*	12.1	10.0	02/20/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND						

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 G 3' (H230729-03)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	209	104	200	6.03		
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND						

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 G 4' (H230729-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49	
Total BTEX	<0.300	0.300	02/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	209	104	200	6.03	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	230	115	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
ALAN KANE
8816 BIG VIEW DRIVE
AUSTIN TX, 78730
Fax To:

Received: 02/16/2023
Reported: 02/22/2023
Project Name: NAU 131-22
Project Number: 23-131
Project Location: NOT GIVEN

Sampling Date: 02/15/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NAU 131-22 E 1' (H230729-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49	
Total BTEX	<0.300	0.300	02/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03	
DRO >C10-C28*	58.1	10.0	02/21/2023	ND	230	115	200	5.27	
EXT DRO >C28-C36	54.2	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 E 2' (H230729-06)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	209	104	200	6.03		
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND						

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 E 3' (H230729-07)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03		
DRO >C10-C28*	75.6	10.0	02/21/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	64.8	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 E 4' (H230729-08)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03		
DRO >C10-C28*	32.9	10.0	02/21/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	27.3	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 F 1' (H230729-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49	
Total BTEX	<0.300	0.300	02/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03	
DRO >C10-C28*	278	10.0	02/21/2023	ND	230	115	200	5.27	
EXT DRO >C28-C36	313	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Analytical Results For:

KANE ENVIROMENTAL
ALAN KANE
8816 BIG VIEW DRIVE
AUSTIN TX, 78730
Fax To:

Received: 02/16/2023
Reported: 02/22/2023
Project Name: NAU 131-22
Project Number: 23-131
Project Location: NOT GIVEN

Sampling Date: 02/15/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NAU 131-22 F 2' (H230729-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49	
Total BTEX	<0.300	0.300	02/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	230	115	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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* = Accredited Analyte

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Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 F 3' (H230729-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.00	100	2.00	5.91		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.6	2.00	5.55		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.97	98.3	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.02	100	6.00	3.49		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03		
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

KANE ENVIROMENTAL
 ALAN KANE
 8816 BIG VIEW DRIVE
 AUSTIN TX, 78730
 Fax To:

Received:	02/16/2023	Sampling Date:	02/15/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	NAU 131-22	Sampling Condition:	Cool & Intact
Project Number:	23-131	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NAU 131-22 F 4' (H230729-12)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.10	105	2.00	2.72		
Toluene*	<0.050	0.050	02/21/2023	ND	2.12	106	2.00	1.99		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.32	116	2.00	0.362		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	7.00	117	6.00	1.59		
Total BTEX	<0.300	0.300	02/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/20/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	209	104	200	6.03		
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	230	115	200	5.27		
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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*=Accredited Analyte

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Notes and Definitions

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

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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

1/2

BILL TO

ANALYSIS REQUEST

Company Name: *Kane Equival Medvet Enterprises Inc.*
 Project Manager:
 Address: *2351 East Highway 81*
 City: *Liberal* State: *TX* Zip: *78948*
 Phone #: *261 439 9570* Fax #:
 Project #: *23-131* Project Owner:
 Project Name: *NAU 131-22*
 Project Location: *NAU 131-22*
 Sampler Name: *Allyl Kane*

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

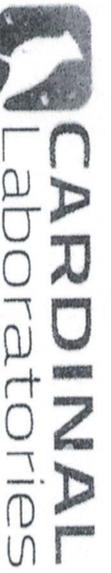
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
<i>HA30789</i>	<i>NAU 131-22 G1'</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<i>2/15/23</i>	<i>10:40am</i>	<i>TPH BRO</i>	
	<i>NAU 131-22 G2'</i>			<input checked="" type="checkbox"/>						<i>2/15/23</i>	<i>10:47am</i>	<i>TPH DRD</i>	
	<i>NAU 131-22 G3'</i>			<input checked="" type="checkbox"/>						<i>2/15/23</i>	<i>11:00am</i>	<i>TPH MRO</i>	
	<i>NAU 131-22 G4'</i>			<input checked="" type="checkbox"/>						<i>2/15/23</i>	<i>11:15am</i>	<i>BTEX</i>	
												<i>Chlorides</i>	

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Relinquished By: *Alan Kane* Date: *2/14/23* Received By: *Deanna Chalkley*
 Date: *2/14/23* Time: *7am*
 Relinquished By: *Alan Kane* Date: *2/14/23* Time: *8:00* Received By: *Deanna Chalkley*

Delivered By: (Circle One) Observed Temp. °C *24* Sample Condition Cool Intact Yes No
 Corrected Temp. °C *1.8* Yes No
 Checked By: *VC*
 Turnaround Time: Standard Rush
 Thermometer ID #113 Correction Factor -0.6°C Yes No Yes No

FOR INFORMATION: 505-333-0777
 † Cardinal cannot accept verbal changes. Please email changes to celley.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name: **KANE ENV. ENGR. INC.**
 Project Manager:

Address: **2351 East Highway 21**
 City: **Lindero** State: **TX** Zip: **78940**

Phone #: _____ Fax #: _____

Project #: **23-131** Project Owner:

Project Name:

Project Location: **NH4 131-22**

Sampler Name: **Alan Kane**

FOR LAB USE ONLY

BILL TO
 P.O. #: _____
 Company: **Same**

Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER			ACID/BASE	ICE / COOL	OTHER	TPH GRO	TPH DRO	TPH MRO	BTEX	Chloride
H330 739	NAV 131-22 E1'		1						2/15/23	8:50M									
	NAV 131-22 E2'		1						2/15/23	8:33M									
	NAV 131-22 E3'		1						2/15/23	8:45M									
	NAV 131-22 E4'		1						2/15/23	9:10M									
	NAV 131-22 F1'		1						2/15/23	9:45M									
	NAV 131-22 F2'		1						2/15/23	10:05M									
	NAV 131-22 F3'		1						2/15/23	10:15M									
	NAV 131-22 F4'		1						2/15/23	10:35M									

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Relinquished By: *[Signature]* Date: **2/14/23** Time: **9AM**
 Received By: *[Signature]* Date: **2/15/23** Time: **10:35AM**

Delivered By: (Circle One) Observed Temp. °C: **21.4** Sample Condition: **CHECKED BY: (Initials) JS**
 Sampler - UPS - Bus - Other: Corrected Temp. °C: **1.8** Cool Intact: Yes No
 Bacteria (only) Sample Condition: Standard Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: Yes No No No No No No No

Appendix E

NVA 131 (2022) Release-nAPP2203953141-Project 23-131

Photo Ionization Detector (PID) Readings

2/14-15/2023	Time	Reading
NVA 131(2022) A-1	9:15	180.8
NVA 131(2022) A-2	9:45	1604.0
NVA 131(2022) A-3	10:15	533.0
NVA 131(2022) A-4	10:45	878.3
NVA 131(2022) B-1	11:15	9.7
NVA 131(2022) B-2	11:45	7.6
NVA 131(2022) B-3	12:15	6
NVA 131(2022) B-4	12:45	4.8
NVA 131(2022) C-1	13:15	2.8
NVA 131(2022) C-2	13:45	4
NVA 131(2022) C-3	14:15	2.7
NVA 131(2022) C-4	14:45	1.8
NVA 131(2022) D-1	15:15	0.9
NVA 131(2022) D-2	15:45	1.1
NVA 131(2022) D-3	16:15	1.2
NVA 131(2022) D-4	16:45	0.5
NVA 131(2022) E-1	8:15	1.1
NVA 131(2022) E-2	8:33	4.5
NVA 131(2022) E-3	8:45	1.4
NVA 131(2022) E-4	9:10	1
NVA 131(2022) F-1	9:45	0.7
NVA 131(2022) F-2	10:05	1.4
NVA 131(2022) F-3	10:15	0.2
NVA 131(2022) F-4	10:25	2.2
NVA 131(2022) G-1	10:40	1.2
NVA 131(2022) G-2	10:47	1.7
NVA 131(2022) G-3	11:00	0.7
NVA 131(2022) G-4	11:15	0.8

Appendix F

NVA 131 (2022) Release-nAPP2203953141-Project 23-131

Trimble GPS-WGS84 Readings

Latitude Longitude

NVA 131(2022) A	32.84641531	-103.53591251
NVA 131(2022) B	32.84638810	-103.53587252
NVA 131(2022) C	32.84641565	-103.53582846
NVA 131(2022) D	32.84637495	-103.53579967
NVA 131(2022) E	32.84640010	-103.53575646
NVA 131(2022) F	32.84637413	-103.53576155
NVA 131(2022) G	32.84635070	-103.53576020

Appendix G

Depth to Water-Borehole Installation Lea County, New Mexico

DTW 1

Prepared for:



**400 W 7th St,
Fort Worth, TX 76102**



**PREPARED BY:
KANE ENVIRONMENTAL ENGINEERING, INC.
2351 EAST STATE HIGHWAY 21
Lincoln, TX 78948
REGISTRATION # F-2355
PROJECT No. 23-136**

FEBRUARY 2023

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1.0 INTRODUCTION

2.0 FIELD ACTIVITIES

- 2.1 Drilling Equipment**
- 2.2 Lithologic Logging Procedures**
- 2.3 Site Specific Drilling Activity**

APPENDICIES

Appendix A -Topographic Map of Borehole Location

Appendix B -Borehole Log

Appendix C -1 Call Notification Records

1.0 INTRODUCTION

1.0 INTRODUCTION

On February 7, 2023 Kane Environmental Engineering along with Scarborough Drilling installed a borehole near Buckeye New Mexico to determine the depth to water on behalf of Cross Timbers Energy.

Borehole, DTW 1 is a piezometer borehole installed with the intention of determining depth to water in the Buckeye Field as required to the adequately conduct site assessment and characterization requirements of 19.15.29.11(A)(2) for soil remediation efforts.

DTW 1 is located in rural Lea, County at latitude 32.85639 and longitude -103.54134. A Trimble GEO 7X, GPS using the WGS84 Datum was utilized to verify the location with an accuracy of approximately 16 inches. A topographic map of this position has been provided in **Appendix A**. Notification and records under NMAC 19.27.4.29(N), while available, are not required as groundwater was not expected to be encountered and was not encountered after allowing the boreholes to develop over a 96-hour period.

2.0 FIELD ACTIVITIES

2.0 FIELD ACTIVITIES

2.1 Drilling Equipment

DTW 1 -Lea County

Drilling Equipment- Scarborough Drilling utilizes a conventional rotary drilling rig, with a 5-inch air rotary tricone bit and air rotary cuttings removal system.

2.2 Lithologic Logging Procedures

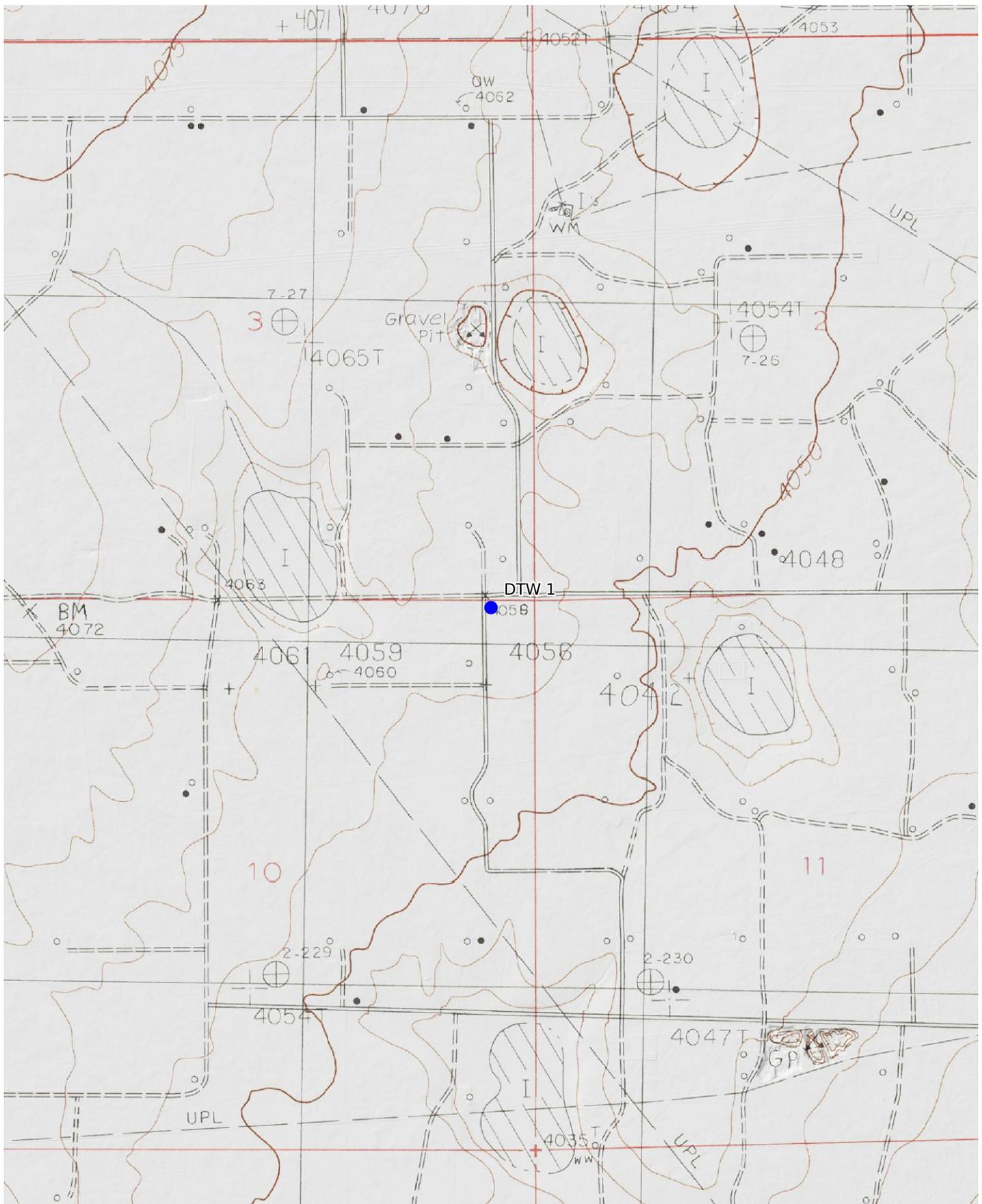
Logs- Borehole lithology data was collected by a Professional Geologist (P.G.) representing Kane Environmental Engineering. Borehole log data is provided in **Appendix B**.

2.3 Site Specific Drilling Activity

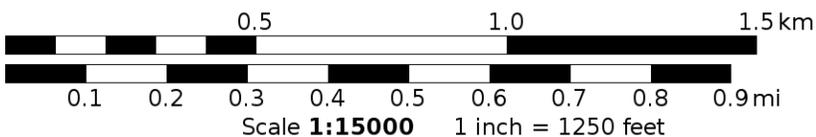
The specific borehole lithology evaluation procedures and activities are provided below.

DTW 1 – After the required NM 1 Calls were made and the site was cleared (**See Appendix C**). Scarborough Drilling mobilized and began installing the borehole at the DTW 1 location. The location data was verified with the GEO 7X Trimble GPS unit utilizing WGS84 Datum information. The borehole was advanced to a depth of 105-feet the afternoon of February 7th and completed the same day. Upon reaching 105-feet and removing the drill stem, 2-inch schedule 40 PVC casing was installed. The borehole was screened from 85-feet through 105-feet. The borehole remained open for over 96-hours and allowed to develop. A water level probe was lowered to the bottom of the well after the development period and the borehole was verified to be dry. The borehole casing was then removed and the hole backfilled with the required bentonite material.

Appendix A



Mercator Projection
 WGS84
 UTM Zone 13S

Appendix B

Kane Environmental Engineering Boring/Completion Log		Kane Environmental Engineering 2351 E. State Highway 21 Lincoln, TX 78948 Phone: 281-379-6580		1 OF 1
CLIENT: Morning Star Partners PROJECT: Depth to Water Program PROJECT NUMBER: LOCATION: Buckeye, N.M. BORING/WELL NAME: DTW 1 KANE REP: J. Rosen DRILLING METHOD: Coventional Rotary SAMPLING METHODS: Air Rotary Cuttings TOP CSG ELEV: GRND. ELEV:		Piezometer DTW 1		
START/END: February 7, 2023 5" borehole with tricone bit		DRILLER: Scarborough Drilling: License 2969AKP 3068AKP LATITUDE: 32° 51' 23.02" N LONGITUDE: 103° 32' 28.83" W		
	CASING 	DEPTH IN FEET	SOIL AND DRILLING DESCRIPTION	
			0 - 1.0' Topsoil, silty fine sand (SM-SP), w/angular pieces of caliche, brown, dry 1.0 - 19' Caliche, white to buff, lithified, hard 19 - 105' Sand (SP), creme to tan, very fine grained, soft, moisture content increases with depth Sand contains random thin interbeds of hard caliche Switch to drag bit at 60', and add minimal water/foam to enhance cuttings removal Total depth (from ground surface) 105 feet No groundwater encountered upon completion of drilling Machine slotted, threaded, Schedule 40 PVC screen from 85 - 105 feet bgs, blank casing surface to 85 ft	
		20		
		40		
		60		
		80		
		100		
		120		

Appendix C

From: Jerry Elrod <jerryelrod@comcast.net>
Sent: Wednesday, February 8, 2023 9:50 AM
To: Alan Kane
Subject: DTW 1 Fwd: NM811 Ticket Confirmation: 23JA230306

No more messages for this one

----- Forwarded Message -----

Subject: NM811 Ticket Confirmation: 23JA230306
Date: Mon, 23 Jan 2023 10:16:39 -0700
From: eticket@nm811.org <eticket@nm811.org>
To: jerryelrod@comcast.net <jerryelrod@comcast.net>

NM811 LOCATE REQUEST

TICKET NUMBER:	23JA230306	Update of:	
Ticket Type:	Standard Locate	For Code:	AUTOEMAIL
Creation Date:	01/23/23 10:16	Seq Num:	1

Excavator Information

Company:	Kane Environmental Engineering	Main Contact Phone:	(281) 374-0658
Address:	6519 Craigway Road	Secondary Phone:	2813706580
City, St, Zip:	Spring, TX 77389	Main Contact Email:	jerryelrod@comcast.net
Company Phone:	(281) 374-0658	Alternate Contact:	
Company Fax:		Alternate Contact Phone:	12813740658
Main Contact:	Jerry Elrod	Alternate Contact Email:	jerryelrod@comcast.net

Work Information

State:	NM	Work To Begin:	01/26/23 AT 00:01
County:	LEA	Expire Date:	02/15/23 AT 23:59
Place:	RURAL LEA		
Address:	DTW 1		
Intersection:	TAD		
Work Type:	Bore-Auger - Holes	Working For:	Morning Star
Pre-marked:	No	Mechanical Boring:	No
Contact Prior to Locating:	No	Contact After Locating:	Yes

Driving Directions

From Buckeye, north on SR 238 for 4.0 miles. Turn left (west) on un-named road and travel 1.9 miles

Spotting Instructions

50 feet radius of 32 51 23.02 n, -103 32 28.83

Remarks

NO

TRSQ: [W8T17SR34ES03SE] [W8T17SR34ES10NE]

Utilities Notified:

<u>Code</u>	<u>Name</u>	<u>Manually Added</u>
CTFS	CT FIELD SERVICES	False

--

Regards,
Jerry Elrod

Kane Environmental Engineering
281-374-0658

Appendix H

[Quoted text hidden]

alanjkane@comcast.net <alanjkane@comcast.net> Wed, Feb 1, 2023 at 12:24 PM
 To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, Russell Hamm <rhammenviro@gmail.com>, Debbie Stratton <debbiestratton@comcast.net>, Samanntha Avarello <savarello@mspartners.com>, Dan Guillotte <dguillotte@mspartners.com>
 Cc: "Hall, Brittany, EMNRD" <Brittany.Hall@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

Jennifer, we would also like to make notification for these sites. We hope to sample these next week and this will likely occur 2/9 or 2/10.

NAPP2124634903	NVA 95
NAPP2203953141	NVA 131 BATTERY
NAPP2102543043	NVA 165

Thanks

Alan Kane

[Quoted text hidden]

Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov> Wed, Feb 1, 2023 at 12:56 PM
 To: "alanjkane@comcast.net" <alanjkane@comcast.net>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, Russell Hamm <rhammenviro@gmail.com>, Debbie Stratton <debbiestratton@comcast.net>, Samanntha Avarello <savarello@mspartners.com>, Dan Guillotte <dguillotte@mspartners.com>
 Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

[Quoted text hidden]

alanjkane@comcast.net <alanjkane@comcast.net> Mon, Feb 13, 2023 at 7:48 AM
 To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, Russell Hamm <rhammenviro@gmail.com>, Debbie Stratton <debbiestratton@comcast.net>, Samanntha Avarello <savarello@mspartners.com>, Dan Guillotte <dguillotte@mspartners.com>
 Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

Jennifer, we would also like to make notification for these sites. We hope to sample this next week and this will likely occur 2/15 - 2/17.

NRM2003036134	STATE N BATTERY
NAPP2035151755	STATE N BATTERY
NCH1903864587	BRIDGES STATE 507
NAPP2203953141	NVA 131 BATTERY

Alan Kane

[Quoted text hidden]

Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov> Mon, Feb 13, 2023 at 10:12 AM
 To: "alanjkane@comcast.net" <alanjkane@comcast.net>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>, Russell Hamm <rhammenviro@gmail.com>, Debbie Stratton <debbiestratton@comcast.net>, Samanntha Avarello <savarello@mspartners.com>, Dan Guillotte <dguillotte@mspartners.com>
 Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Alan,

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

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



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

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

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

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

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

CONDITIONS

Action 211783

CONDITIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299
	Action Number: 211783
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral request approved. Remediation Due date left open until plug and abandonment of the facility is completed.	7/20/2023