



**MEWBOURNE**  
**OIL COMPANY**

**Aureus - Derringer Recycle Pond**  
**NAPP2213659921**

**Final Remediation Report**



2525 NW County Rd

Hobbs, NM 88240  
[\(575\) 392-9996](tel:5753929996)

## **Introduction**

This report represents the results of remediation activities at the Aureus – Derringer Recycle Pond. On behalf of Mewbourne Oil Company (Mewbourne), Diamondback Disposal Services, Inc. (Diamondback) was tasked with the cleanup and remediation of release NAPP2213659921. The release occurred in Unit Letter G, Section 18, Township 20S, Range 39E at coordinates 32.575240, -104.113515. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) and 19.15.29 of the New Mexico Administrative Code (NMAC) effective date August 14, 2018.

## **Overview**

The spill site was located near a recycle pond on Federal land and the affected area consisted of grass, prairie, and range lands. An equipment failure caused a leak in a produced water line leading to the recycle pond. Approximately 219 barrels of produce water was lost with 80 barrels recovered. All figures were calculated based on normal flow rates.

## **Regulatory Guidelines**

Upon review of the site characteristics and a search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) a survey was conducted to determine the average depth to groundwater within a one (1) mile radius of the release site and identify any registered water wells within a ½ mile radius of the release site. Point of Diversion C 04018 POD1 was identified and found to have a depth of 179ft to groundwater. Table 1 NMAC 19.15.29.12 closure criteria for groundwater less that 50ft (See Table Below) will be utilized per Mewbourne's request.

Table 1 NMAC 19.15.29.12		
Closure Criteria for Soils Impacted by a Release		
<50 Feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

**Remediation Activities**

Between the dates of August 23<sup>rd</sup>, 2022 and October 4<sup>rd</sup>, 2022 Diamondback excavated approximately 3940 cubic yards (cy) of impacted material, loaded and transported it to R-360 Halfway Facility for disposal. Depth of excavation ranges from 1-foot BGS to 7-feet BGS. Between the dates of August 22<sup>nd</sup>, 2022 and October 4<sup>th</sup>, 2022 the site was sampled to determine the RRAL's had been met. Five-point composite samples were collected, every 200 square feet of side wall and 200 square feet of floor area, packaged and delivered to a third-party lab, with chain of custody for testing as per regulatory standards. (See attached analytical). Upon review of analytical, all wall samples proved to be below table 1 RRAL's for site closure. At locations where floor soil sample results exceeded allowed levels of Chloride these areas were over excavated and resampled. Being that Table 1 Closure Criteria for groundwater 50' BGS, all restoration and reclamation limits have been met.

On November 10<sup>th</sup>, 2022 backfilling began and ran through November 13<sup>th</sup>. Approximately 3324 cy of material was obtained from a local source. Backfill was placed in a manner that will promote compaction, prevent storm water run-off and erosion and allow for vegetation to grow. The affected area will be reseeded during an optimal time conducive to growth, with an approved BLM seed mix.

**Conclusion**

Upon review of all analytical data provided by the third-party independent lab, results indicated that all recommended remediation action levels and restoration/reclamation criteria were met for all excavated areas. On behalf of Mewbourne Oil Company, we respectfully request the NMOCD grant closure approval for the Derringer Recycle Pond NAPP2213659921



B-49 FLOOR	H2241114-19	2'	9-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	54.5	<10.0	54.5	400
B-50 FLOOR	H2241330-01	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	15.3
B-51 FLOOR	H224598-01	7'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.3	<10.0	15.3	48.0
B-52 FLOOR	H224598-02	7'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
B-53 FLOOR	H224136-02	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
B-54 FLOOR	H224136-03	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
B-55 FLOOR	H224625-11	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
B-56 FLOOR	H224136-04	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B-57 FLOOR	H224136-05	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
B-58 FLOOR	H224136-06	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B-59 FLOOR	H224136-07	2'	9-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
B-60 FLOOR	H224286-10	2'	09-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
B-61 FLOOR	H224286-11	2'	09-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
B-62 FLOOR	H224306-01	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
B-63 FLOOR	H224306-02	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
B-64 FLOOR	H224306-03	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
B-65 FLOOR	H224598-03	3'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
B-66 FLOOR	H224306-04	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
B-67 FLOOR	H224306-06	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B-68 FLOOR	H224306-06	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
B-69 FLOOR	H224598-04	3'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
B-70 FLOOR	H224598-05	3'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B-71 FLOOR	H224598-08	2'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
B-72 FLOOR	H224306-05	2'	09-16-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
B-73 FLOOR	H224598-06	1'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
B-74 FLOOR	H224598-07	1'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
B-75 FLOOR	H224598-07	1'	10-03-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B-76 FLOOR	H224625-01	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
B-77 FLOOR	H224625-02	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
B-78 FLOOR	H224625-03	3'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
B-79 FLOOR	H224625-04	3'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
B-80 FLOOR	H224625-05	3'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.8	<10.0	18.8	32.0
B-81 FLOOR	H224625-06	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
B-82 FLOOR	H224625-07	3'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
B-83 FLOOR	H224625-08	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.7	<10.0	14.7	256
B-84 FLOOR	H224625-09	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B-85 FLOOR	H224625-10	2'	10-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0



Wall Deliniation Map  
NAPP 2213659921  
Mewbourne Oil Co.  
Eddy County, New Mexico

Released to Imaging: 7/16/2024 1:32:54 PM



Diamondback Disposal Services, Inc  
P.O. Box 2491  
Hobbs, NM 88241  
575-392-9996



Floor Sample Map  
NAPP 2213659921  
Mewbourne Oil Co.  
Eddy County, New Mexico

Released to Imaging: 7/16/2024 1:32:54 PM



Diamondback Disposal Services, Inc  
P.O. Box 2491  
Hobbs, NM 88241  
575-392-9996

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

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

Incident ID	NAPP2213659921
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Mewbourne Oil Company	OGRID	14744
Contact Name	Connor Walker	Contact Telephone	806-202-5281
Contact email	cwalker@mewbourne.com	Incident #	(assigned by OCD)
Contact mailing address	4801 Business Park Blvd, Hobbs, NM 88240		

### Location of Release Source

Latitude 32.575240 \_\_\_\_\_ Longitude -104.113515 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Aureus – Derringer Recycle Pond	Site Type Pipeline
Date Release Discovered 5/2/2022	API# (if applicable) nAPP2213659921

Unit Letter	Section	Township	Range	County
G	18	20S	29E	Eddy

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 219	Volume Recovered (bbls) 80
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release


A discharge line downstream of the charge pump came apart.

Incident ID	NAPP2213659921
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Facility ID	
Application ID	

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? The release was greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given by Connor Walker to <a href="mailto:ocd.enviro@state.nm.us">ocd.enviro@state.nm.us</a> on 5/3/2022 @ 3:52PM via email.	

## 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>Connor Walker</u>	Title: <u>Sr. Engineer</u>
Signature: 	Date: <u>5/9/2022</u>
email: <u>cwalker@mewbourne.com</u>	Telephone: <u>806-202-5281</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/17/2022</u>

**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 107305

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 107305
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	5/17/2022

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50 (karst)(ft bgs)</u>
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input 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 ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Connor Walker Title: Sr. EngineerSignature:  Date: 2/6/2023email: cwalker@mewbourne.com Telephone: 806-202-5281**OCD Only**

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure


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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer

Signature: 

Date: 2/6/2023

email: cwalker@mewbourne.com

Telephone: 806-202-5281

**OCD Only**

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

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

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

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

**From:** Justin Roberts diamondback2491@yahoo.com  
**Subject:** NAPP2213659921  
**Date:** October 12, 2022 at 7:32 AM  
**To:** ocd.enviro@emnrd.nm.gov  
**Cc:** Jason Owsley jasono@diamondbacknm.com, Connor Walker cwalker@mewbourne.com

JD

Good Morning

Please let this serve as a 48 hour notice to complete confirmation sampling at the Mewbourne Oil Company Derringer Frac pond, located at 32.57524, -104.113515 NAPP2213659921. Sampling will take place at 8:00 am on Friday October 14, 2022. If you need further information please feel free to reach out.

Have a Good Day!

Justin Roberts

Diamondback Disposal Services, Inc.


575-392-9996 - Office

575-631-9586 - Cell



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 01201 POD1	2	2	1	18	20S	29E	582983	3605121 
<hr/>									
<b>Driller License:</b> 1348		<b>Driller Company:</b>		TAYLOR WATER WELL SERVICE					
<b>Driller Name:</b>		TAYLOR, CLINTON E.							
<b>Drill Start Date:</b> 10/24/2013		<b>Drill Finish Date:</b>		10/24/2013		<b>Plug Date:</b>			
<b>Log File Date:</b> 11/08/2013		<b>PCW Rev Date:</b>				<b>Source:</b>		Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>		100 GPM	
<b>Casing Size:</b> 6.00		<b>Depth Well:</b>		140 feet		<b>Depth Water:</b>		100 feet	
<hr/>									
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>					
		100	130	Sandstone/Gravel/Conglomerate					
<hr/>									
<b>Casing Perforations:</b>		<b>Top</b>	<b>Bottom</b>						
		79	119						
<hr/>									

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

8/23/22 5:56 AM

POINT OF DIVERSION SUMMARY

# OSE POD Locations Map



11/15/2022, 7:35:07 AM

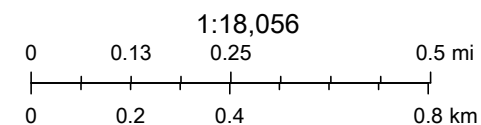
GIS WATERS PODs

● Pending

● Active

□ OSE District Boundary

▤ Site Boundaries



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Web Generated Map  
Map is generated by web users.







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

August 24, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 08/22/22 16:19.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B1 @ 3' (H223839-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	103	2.00	1.35	
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B2 @ 3' (H223839-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26		
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80		
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND						

Surrogate: 1-Chlorooctane 80.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.4 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B3 @ 3' (H223839-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B4 @ 3' (H223839-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26		
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80		
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND						

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.5 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B5 @ 3' (H223839-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B6 @ 3' (H223839-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/24/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE OIL COMPANY	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B7 @ 3' (H223839-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	102	2.00	6.61		
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	6.38		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.98	98.9	2.00	7.00		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.12	102	6.00	6.67		
Total BTEX	<0.300	0.300	08/23/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.8 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

---

August 24, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER

Enclosed are the results of analyses for samples received by the laboratory on 08/22/22 16:19.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: W1 @ 0-3' (H223840-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	102	2.00	6.61		
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	6.38		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.98	98.9	2.00	7.00		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.12	102	6.00	6.67		
Total BTX	<0.300	0.300	08/23/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.5 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: W2 @ 0-3' (H223840-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.05	102	2.00	6.61		
Toluene*	<0.050	0.050	08/24/2022	ND	2.00	99.9	2.00	6.38		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.98	98.9	2.00	7.00		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	6.12	102	6.00	6.67		
Total BTEx	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.5 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received: 08/22/2022  
 Reported: 08/24/2022  
 Project Name: AUREUS - DERRINGER  
 Project Number: MOC-386  
 Project Location: NM

Sampling Date: 08/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W3 @ 3-5' (H223840-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2022	ND	2.05	102	2.00	6.61	
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	6.38	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.98	98.9	2.00	7.00	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.12	102	6.00	6.67	
Total BTX	<0.300	0.300	08/23/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	190	95.2	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	175	87.3	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.3 % 46.3-178

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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

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]



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

---

September 07, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/01/22 15:52.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B8 @ 5' (H224034-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83		
Total BTX	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B9 @ 5' (H224034-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83		
Total BTEX	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B11 @ 5' (H224034-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83		
Total BTEx	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.0 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B12 @ 5' (H224034-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83	
Total BTEX	<0.300	0.300	09/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.9 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B13 @ 5' (H224034-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83		
Total BTEX	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B16 @ 5' (H224034-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83		
Total BTEx	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B17 @ 5' (H224034-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2022	ND	2.07	103	2.00	10.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.05	102	2.00	9.39	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	2.00	100	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.23	104	6.00	9.83	
Total BTEx	<0.300	0.300	09/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/06/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B18 @ 5' (H224034-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6		
Total BTEX	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B19 @ 5' (H224034-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6		
Total BTEX	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84		
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24		
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND						

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B20 @ 5' (H224034-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/06/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	6.14	102	6.00	11.6		
Total BTEX	<0.300	0.300	09/06/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.8 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B21 @ 5' (H224034-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/06/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	6.14	102	6.00	11.6		
Total BTEx	<0.300	0.300	09/06/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B22 @ 5' (H224034-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/06/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	6.14	102	6.00	11.6		
Total BTEX	<0.300	0.300	09/06/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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**Analytical Results For:**

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 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B23 @ 5' (H224034-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6		
Total BTEx	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.2 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/01/2022	Sampling Date:	09/01/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC-386	Sample Received By:	Tamara Oldaker
Project Location:	NM		

**Sample ID: B24 @ 5' (H224034-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6		
Total BTEx	<0.300	0.300	09/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

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

Company Name: DiamondBack Disposals				BILL TO				ANALYSIS REQUEST																			
Project Manager: Justin Roberts				P.O. #:																							
Address: 2525 NW County RD				Company: Mewbourne																							
City: Hobbs State: NM ZIP: 88240				Attn: Conner Walker																							
Phone #: (575)-392-9996				Address:																							
Project #: MOC-386				City:																							
Project Name: Aureus Derringer Frac Pond				State: Zip:																							
Project Location: NM				Phone #:																							
Sampler Name: Jason Owsley				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME															
H3224034																											
1		B8 @ 5'		c 1				x		x		9/1/22 11:00am															
2		B9 @ 5'		c 1				x		x		9/1/22 11:02am															
3		B11 @ 5'		c 1				x		x		9/1/22 11:04am															
4		B12 @ 5'		c 1				x		x		9/1/22 11:06am															
5		B13 @ 5'		c 1				x		x		9/1/22 11:08am															
6		B16 @ 5'		c 1				x		x		9/1/22 11:10am															
7		B17 @ 5'		c 1				x		x		9/1/22 11:12am															
8		B18 @ 5'		c 1				x		x		9/1/22 11:14am															
9		B19 @ 5'		c 1				x		x		9/1/22 11:16am															
10		B20 @ 5'		c 1				x		x		9/1/22 11:18am															
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Relinquished By:				Date: 9-1-22		Received By:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
[Signature]				Time: 1552		[Signature]				All Results are emailed. Please provide Email address: Jason.Owsley.DB@gmail.com / yessi_diamond@yahoo.com / Justin / Connor																	
Relinquished By:				Date:		Received By:				REMARKS:																	
[Signature]				Time:																							
Delivered By: (Circle One)				Observed Temp. °C 1.9		Sample Condition				CHECKED BY:				Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition													
Sampler - UPS - Bus - Other:				Corrected Temp. °C 1.3		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				(Initials) TO				Rush <input type="checkbox"/> Cool Intact Observed Temp. °C													
														Thermometer ID #113 Correction Factor -0.5°C													
														<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C													

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

[illegible]



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

September 13, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/07/22 16:25.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B10 @ 7' (H224114-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	201	100	200	8.09	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	222	111	200	5.43	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B14 @ 7' (H224114-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	201	100	200	8.09	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	222	111	200	5.43	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B15 @ 7' (H224114-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B25 @ 5' (H224114-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B26 @ 7' (H224114-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	35.4	10.0	09/09/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 77.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B29 @ 7' (H224114-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	222	111	200	0.0771		
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	225	112	200	8.38		
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND						

Surrogate: 1-Chlorooctane 69.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.1 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B33 @ 7' (H224114-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEx	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B38 @ 5' (H224114-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.7 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B39 @ 5' (H224114-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEx	<0.300	0.300	09/10/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.3 % 46.3-178

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DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B42 @ 2' (H224114-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEx	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	28.3	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 69.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.7 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B43 @ 2' (H224114-11)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.8 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B44 @ 2' (H224114-12)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B45 @ 2' (H224114-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.08	104	2.00	0.264		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	101	2.00	0.166		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.99	99.4	2.00	0.316		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.12	102	6.00	0.0895		
Total BTEX	<0.300	0.300	09/10/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178

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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B40 @ 2' (H224114-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	47.2	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 70.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B41 @ 2' (H224114-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/12/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	68.7	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 68.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B46 @ 2' (H224114-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B47 @ 2' (H224114-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	2.09	104	2.00	1.93		
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.17	103	6.00	2.31		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B48 @ 2' (H224114-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B49 @ 2' (H224114-19)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93		
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	54.5	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: DiamondBack Disposals										BILL TO										ANALYSIS REQUEST									
Project Manager: Justin Roberts										P.O. #:																			
Address: 2525 NW County RD										Company: Mewbourne																			
City: Hobbs State: NM ZIP: 88240										Attn: Conner Walker																			
Phone #: (575)-392-9996										Address:																			
Project #: MOC-386										City:																			
Project Name: Aureus - Derringer Frac Pond										State: Zip:																			
Project Location: NM										Phone #:																			
Sampler Name: Jason Owsley										Fax #:																			
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.																			
										(G/RAB OR (C)OMP. # CONTAINERS																			
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE																			
										OTHER : ACID/BASE: ICE / COOL OTHER :																			
										DATE TIME																			
										CL EXT TPH BTEX																			
H224114																													
1 B10 @ 7'										c 1										x x x									
2 B14 @ 7'										c 1										x x x									
3 B15 @ 7'										c 1										x x x									
4 B25 @ 5'										c 1										x x x									
5 B26 @ 7'										c 1										x x x									
6 B29 @ 7'										c 1										x x x									
7 B33 @ 7'										c 1										x x x									
8 B38 @ 5'										c 1										x x x									
9 B39 @ 5'										c 1										x x x									

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Relinquished By:		Date: 7-7-22		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 7:25				All Results are emailed. Please provide Email address: JasonO@diamondbacknm.com / yessi_diamond@yahoo.com / Justin / Connor			
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)		Observed Temp. °C 3.2		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 2.7		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		T.O.		Rush <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C	
				<input type="checkbox"/> No <input type="checkbox"/> No				Thermometer ID #113	
								Correction Factor -0.5°C	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

FORM-006 R 3.2 10/07/21

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

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

Page 23 of 23

Company Name: DiamondBack Disposals										BILL TO										ANALYSIS REQUEST									
Project Manager: Justin Roberts										P.O. #:																			
Address: 2525 NW County RD										Company: Mewbourne																			
City: Hobbs State: NM ZIP: 88240										Attn: Conner Walker																			
Phone #: (575)-392-9996										Address:																			
Project #: MOC-386										City:																			
Project Name: Aureus - Derringer Frac Pond										State: Zip:																			
Project Location: NM										Phone #:																			
Sampler Name: Jason Owsley										Fax #:																			
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.																			
										(G/RAB OR (C)OMP. # CONTAINERS																			
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE																			
										OTHER: ACID/BASE: ICE / COOL OTHER:																			
										DATE										TIME									
										CL										EXT TPH BTEX									
H224114										10 B42 @ 2'										c 1 x x x									
11 B43 @ 2'										c 1 x x x																			
12 B44 @ 2'										c 1 x x x																			
13 B45 @ 2'										c 1 x x x																			
14 B40 @ 2'										c 1 x x x																			
15 B41 @ 2'										c 1 x x x																			
16 B46 @ 2'										c 1 x x x																			
17 B47 @ 2'										c 1 x x x																			
18 B48 @ 2'										c 1 x x x																			
19 B49 @ 2'										c 1 x x x																			
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Relinquished By:										Date: 9-7-22										Received By: Tamara Eldredge									
										Time: 1625																			
Relinquished By:										Date:										REMARKS:									
										Time:																			
Delivered By: (Circle One)										Observed Temp. °C 3.2										Sample Condition									
Sampler - UPS - Bus - Other:										Corrected Temp. °C 2.7										Cool Intact									
																				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
																				<input type="checkbox"/> No <input type="checkbox"/> No									
																				CHECKED BY: (Initials) J.O.									
																				Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition									
																				Rush <input type="checkbox"/> Cool Intact Observed Temp. °C									
																				Thermometer ID #113									
																				Correction Factor -0.5°C									
																				<input type="checkbox"/> Yes <input type="checkbox"/> No									
																				<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C									



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

September 14, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/07/22 16:25.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 4 @ 5-7' (H224115-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93	
Toluene*	0.166	0.050	09/10/2022	ND	2.03	102	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31	
Total BTX	<0.300	0.300	09/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 5 @ 0-5' (H224115-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93	
Toluene*	0.071	0.050	09/10/2022	ND	2.03	102	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31	
Total BTEx	<0.300	0.300	09/10/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/12/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.0 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 6 @ 0-5' (H224115-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93	
Toluene*	<0.050	0.050	09/10/2022	ND	2.03	102	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31	
Total BTX	<0.300	0.300	09/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/12/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	222	111	200	0.0771	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	225	112	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/07/2022	Sampling Date:	09/07/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 7 @ 0-5' (H224115-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2022	ND	2.09	104	2.00	1.93		
Toluene*	0.157	0.050	09/10/2022	ND	2.03	102	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	2.00	100	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.17	103	6.00	2.31		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/12/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	203	102	200	5.32	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	199	99.3	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





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

September 14, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 15:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: W8 @ 0-2' (H224135-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
<b>Toluene*</b>	<b>0.155</b>	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: W9 @ 0-5' (H224135-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0	
<b>Toluene*</b>	<b>0.393</b>	0.050	09/13/2022	ND	2.01	101	2.00	13.0	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0	
<b>Total BTEX</b>	<b>0.393</b>	0.300	09/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
A-01	CCV DRO recovery biased high. All samples ND, data not affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

September 13, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 15:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 50 @ 2' (H224136-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0	
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0	
Total BTX	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/13/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.8 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 53 @ 2' (H224136-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 54 @ 2' (H224136-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTEx	<0.300	0.300	09/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 56 @ 2' (H224136-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 57 @ 2' (H224136-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 58 @ 2' (H224136-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - NM		

**Sample ID: B 59 @ 2' (H224136-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0		
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	214	107	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	212	106	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager




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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- BS-3            Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- A-01            CCV DRO recovery biased high. All samples ND, data not affected.
- ND            Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*            Samples not received at proper temperature of 6°C or below.
- \*\*\*            Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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\_\_\_\_\_  
Celey D. Keene, Lab Director/Quality Manager

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

[illegible]



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

September 19, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 16:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 27 @ 7' (H224286-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 69.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 28 @ 7' (H224286-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 30 @ 7' (H224286-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50		
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND						

Surrogate: 1-Chlorooctane 73.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.4 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 31 @ 7' (H224286-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 62.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.2 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 32 @ 7' (H224286-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 69.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.6 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 34 @ 7' (H224286-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 64.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.2 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 35 @ 7' (H224286-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEx	<0.300	0.300	09/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 63.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.2 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 36 @ 7' (H224286-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 59.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 67.2 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 37 @ 7' (H224286-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 66.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.2 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 60 @ 2' (H224286-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	1.84	92.0	2.00	3.70		
Toluene*	<0.050	0.050	09/18/2022	ND	1.84	91.8	2.00	4.71		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.77	88.4	2.00	2.94		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	5.50	91.7	6.00	3.11		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50		
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND						

Surrogate: 1-Chlorooctane 56.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 62.4 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 61 @ 2' (H224286-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 63.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.5 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DiamondBack Disposals				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																							
Project Manager: Justin Roberts				P.O. #:																																											
Address: 2525 NW County RD				Company: Mewbourne																																											
City: Hobbs State: NM ZIP: 88240				Attn: Conner Walker																																											
Phone #: (575)-392-9996				Address:																																											
Project #: MOC-386				City:																																											
Project Name: Aureus Derringer Frac Pond				State: Zip:																																											
Project Location: NM				Phone #:																																											
Sampler Name: Jason Owsley				Fax #:																																											
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																																					
Lab I.D.																																															
Sample I.D.				(G)RAB OR (C)OMP.				# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER : ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL		EXT TPH		BTEx													
H224Z86				c				1		x												x				9/15/22		8:30am		x		x		x													
1 B27 @ 7'				c				1		x												x				9/15/22		8:32am		x		x		x													
2 B28 @ 7'				c				1		x												x				9/15/22		8:34am		x		x		x													
3 B30 @ 7'				c				1		x												x				9/15/22		8:36am		x		x		x													
4 B31 @ 7'				c				1		x												x				9/15/22		8:38am		x		x		x													
5 B32 @ 7'				c				1		x												x				9/15/22		8:40am		x		x		x													
6 B34 @ 7'				c				1		x												x				9/15/22		8:42am		x		x		x													
7 B35 @ 7'				c				1		x												x				9/15/22		8:44am		x		x		x													
8 B36 @ 7'				c				1		x												x				9/15/22		8:46am		x		x		x													
9 B37 @ 7'				c				1		x												x				9/15/22		8:46am		x		x		x													
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Relinquished By:				Date: 9-15-22		Received By:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																																	
				Time: 1615						All Results are emailed. Please provide Email address: JasonO@diamondbacknm.com / yesenial@diamondbacknm.com / Justin / Connor																																					
Relinquished By:				Date:		Received By:				REMARKS:																																					
				Time:																																											
Delivered By: (Circle One)				Observed Temp. °C 3.4				Sample Condition				CHECKED BY:				Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition																															
Sampler - UPS - Bus - Other:				Corrected Temp. °C 2.8				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)				Rush <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C																															
								<input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #113				<input type="checkbox"/> Yes <input type="checkbox"/> No																															
								<input type="checkbox"/> No <input type="checkbox"/> No				Correction Factor -0.5°C				<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C																															





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

September 21, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 16:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 10 @ 0-7' (H224287-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
<b>Toluene*</b>	<b>0.159</b>	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 65.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.5 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 11 @ 0-7' (H224287-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	0.177	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

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	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 12 @ 2-7' (H224287-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	0.074	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEx	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 67.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.2 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/15/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 13 @ 2-7' (H224287-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	0.068	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTEx	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

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	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	217	109	200	2.50	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	222	111	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 69.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.5 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]



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

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September 21, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 09/16/22 15:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 62 @ 2' (H224306-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTX	<0.300	0.300	09/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 63 @ 2' (H224306-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27		
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 64 @ 2' (H224306-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27		
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 66 @ 2' (H224306-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27		
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 72 @ 2' (H224306-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27		
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 67 @ 2' (H224306-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27		
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 68 @ 2' (H224306-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4		
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6		
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8		
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8		
Total BTEX	<0.300	0.300	09/20/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.3 % 46.3-178

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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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	09/16/2022	Sampling Date:	09/16/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 71 @ 2' (H224306-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4		
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6		
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8		
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8		
Total BTEX	<0.300	0.300	09/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3      Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

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

[illegible]



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

October 10, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 10/03/22 16:22.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 51 @ 7' (H224598-01)**

BTX 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	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	15.3	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 52 @ 7' (H224598-02)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 65 @ 3' (H224598-03)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 69 @ 3' (H224598-04)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35		
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27		
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND						

Surrogate: 1-Chlorooctane 95.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 70 @ 3' (H224598-05)**

BTX 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	10/08/2022	ND	1.98	99.2	2.00	1.36	
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95	
Total BTX	<0.300	0.300	10/08/2022	ND					

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

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	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 73 @ 1' (H224598-06)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 74 @ 1' (H224598-07)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 75 @ 1' (H224598-08)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

October 10, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 10/03/22 16:22.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 14 @ 5-7' (H224599-01)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 15 @ 2-7' (H224599-02)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 16 @ 2-7' (H224599-03)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	<0.050	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 17 @ 0-2' (H224599-04)**

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	10/08/2022	ND	1.98	99.2	2.00	1.36		
Toluene*	0.149	0.050	10/08/2022	ND	1.98	99.1	2.00	2.00		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.91	95.7	2.00	1.50		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.86	97.6	6.00	1.95		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	10/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	222	111	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]



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

---

October 10, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 10/04/22 15:50.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 18 @ 0-2' (H224624-01)**

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	10/08/2022	ND	2.01	101	2.00	3.51	
<b>Toluene*</b>	<b>0.134</b>	0.050	10/08/2022	ND	2.12	106	2.00	2.83	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.96	97.8	2.00	3.44	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.88	98.0	6.00	4.33	
Total BTEX	<0.300	0.300	10/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	10/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 118 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: W 19 @ 0-2' (H224624-02)**

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	10/08/2022	ND	2.10	105	2.00	1.30	
Toluene*	0.074	0.050	10/08/2022	ND	2.23	111	2.00	1.50	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55	
Total BTEX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]



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

October 10, 2022

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: AUREUS - DERRINGER FRAC POND

Enclosed are the results of analyses for samples received by the laboratory on 10/04/22 15:50.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 76 @ 2' (H224625-01)**

BTX 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	10/08/2022	ND	2.10	105	2.00	1.30	
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55	
Total BTX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 77 @ 2' (H224625-02)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEx	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 135 % 45.3-161

Surrogate: 1-Chlorooctadecane 145 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 78 @ 3' (H224625-03)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 79 @ 3' (H224625-04)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEx	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 80 @ 3' (H224625-05)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	18.8	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 81 @ 2' (H224625-06)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEX	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 127 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 82 @ 3' (H224625-07)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 83 @ 2' (H224625-08)**

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	10/08/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/08/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	2.55		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	14.7	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 136 % 45.3-161

Surrogate: 1-Chlorooctadecane 149 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 84 @ 2' (H224625-09)**

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	10/09/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/09/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.15	103	6.00	2.55		
Total BTEX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 85 @ 2' (H224625-10)**

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	10/09/2022	ND	2.10	105	2.00	1.30	
Toluene*	<0.050	0.050	10/09/2022	ND	2.23	111	2.00	1.50	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.04	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.15	103	6.00	2.55	
Total BTEX	<0.300	0.300	10/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	AUREUS - DERRINGER FRAC POND	Sampling Condition:	Cool & Intact
Project Number:	MOC - 386	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - NM		

**Sample ID: B 55 @ 2' (H224625-11)**

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	10/09/2022	ND	2.10	105	2.00	1.30		
Toluene*	<0.050	0.050	10/09/2022	ND	2.23	111	2.00	1.50		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.04	102	2.00	2.05		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.15	103	6.00	2.55		
Total BTEX	<0.300	0.300	10/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	227	113	200	5.41	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	251	125	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager





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**District II**  
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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

QUESTIONS

Action 362598

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	362598
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2226281123
Incident Name	NAPP2226281123 DERRINGER RECYCLE POND @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[FV2133637688] DERRINGER FEDERAL RECYCLE FACILITY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DERRINGER RECYCLE POND
Date Release Discovered	08/07/2022
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 80 BBL   Recovered: 0 BBL   Lost: 80 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Initial information indicated this spill was small and non-reportable. The release was entirely within the confines of release nAPP2213659921, which did not allow MOC to make volumetric calculations on the size. Information later obtained by Mewbourne indicated this spill to be larger than initially thought. Phone call was made to Jennifer Nobui on 9/6/2022 to explain the chain of events.

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**District IV**

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

QUESTIONS, Page 2

Action 362598

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	362598
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Nature and Volume of Release (continued)**

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/10/2024
--	---

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

QUESTIONS, Page 3

Action 362598

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	362598
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	592
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	68.7
GRO+DRO	(EPA SW-846 Method 8015M)	68.7
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.4
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/23/2022
On what date will (or did) the final sampling or liner inspection occur	10/04/2022
On what date will (or was) the remediation complete(d)	11/13/2022
What is the estimated surface area (in square feet) that will be reclaimed	16000
What is the estimated volume (in cubic yards) that will be reclaimed	3940
What is the estimated surface area (in square feet) that will be remediated	16000
What is the estimated volume (in cubic yards) that will be remediated	3940

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 362598

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	362598
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/10/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 362598

**QUESTIONS (continued)**

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744
	Action Number:  362598
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 362598

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	362598
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	362696
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2022
What was the (estimated) number of samples that were to be gathered	104
What was the sampling surface area in square feet	16000

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	16000
What was the total volume (cubic yards) remediated	3940
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	16000
What was the total volume (in cubic yards) reclaimed	3940
Summarize any additional remediation activities not included by answers (above)	Please see attached Closure report for complete details.

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

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

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/10/2024
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Action 362598

QUESTIONS (continued)

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744
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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS  
  
Action 362598

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
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	Action Number:
	362598
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/16/2024