RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

January 17, 2023

Nelson Velez Environmental Bureau, Oil Conservation Division New Mexico Energy, Minerals, & Natural Resources Department 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: CAP Report and Termination Request Rice Operating Company – BD SWD System BD C-28 EOL (Pogo Manda EOL) (1R426-219): UL/C, Sec. 28, T22S, R37E

Mr. Velez:

RICE Operating Company (ROC) submits the following to address potential environmental concerns at the above-referenced site in the BD Saltwater Disposal (SWD) system.

ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 4 miles south of Eunice, New Mexico at UL/C, Sec. 28, T22S, R37E as shown on the Geographical Location Map and the Area Map. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 75 feet below ground surface (bgs). A junction box disclosure report was submitted to NMOCD with all the 2007 junction box closures and disclosures.

In 2007, ROC initiated work on the former C-28 EOL junction box. The site was delineated using a backhoe to form a 30x30x12-ft deep excavation and soil samples were screened at regular intervals for hydrocarbon and chloride. A 4-wall composite sample, a bottom composite sample, and a remediated soil sample were sent to a commercial laboratory for analysis. The 4-wall composite returned a chloride reading of 1,220 mg/kg, a Gasoline Range Organics (GRO) reading of non-detect, and a Diesel Range Organics (DRO) reading of non-detect. The bottom composite sample returned a chloride reading of 1,180 mg/kg, a GRO reading of non-detect, and a DRO reading of non-detect. The excavated soil was blended on site and a representative sample was sent to a commercial laboratory for analysis. The sample returned a chloride reading of 976 mg/kg, a GRO reading of non-detect, and a DRO reading of non-detect. The excavation

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was backfilled with blended soil (36 cubic feet was disposed of at an OCD-approved facility), then a one-foot compacted clay liner was installed at 6 feet bgs and the remainder of the excavation was backfilled with the blended soil. Clean, imported soil was used backfill the remaining excavation and to contour the site to the surrounding area. A new water-tight junction box was installed 100 feet south of the site.

An ICP was submitted to NMOCD on June 14th, 2018 and was approved on June 26th, 2018. According to the ICP and to further investigate the depth of chloride presence, seven soil bores were drilled on August 28th and 30th, 2018, April 24th, 2019, and June 24th, 2019. Soil bore (SB-1) was drilled 20 ft east of the former junction box site and was advanced to a depth of 25 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 15 ft and 25 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 1,070 mg/kg and GRO/DRO/Extended DRO (EXT-DRO) and total BTEX concentrations of non-detect in the 15 ft sample. The 25 ft sample resulted in a chloride concentration of 368 mg/kg and GRO/DRO/EXT-DRO concentrations of non-detect. Soil bore (SB-2) was drilled 20 ft north-northeast of the former junction box site and was advanced to a depth of 70 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 60 ft and 70 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 1,180 mg/kg and GRO/DRO/EXT-DRO concentrations of non-detect in the 60 ft sample. The 70 ft sample resulted in a chloride concentration of 1,070 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. Soil bore (SB-3) was drilled 20 ft west of the former junction box site and was advanced to a depth of 70 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 45 ft and 70 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 1,780 mg/kg and GRO/DRO/EXT-DRO concentrations of non-detect in the 45 ft sample. The 70 ft sample resulted in a chloride concentration of 608 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. Soil bore (SB-4) was drilled 40 ft south of the former junction box site and was advanced to a depth of 25 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 15 ft and 25 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 832 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect in the 15 ft sample. The 25 ft sample resulted in a chloride concentration of 224 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. Soil bore (SB-5) was drilled 35 ft north of the former junction box site and was advanced to a depth of 20 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 15 ft and 20 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 1,300 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect in the 15 ft sample. The 25 ft sample resulted in a chloride concentration of 256 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. Soil bore (SB-6) was drilled 30 ft west of the former junction box site and was advanced to a depth of 60 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 5 ft,10 ft, and 60 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 1,890 mg/kg and

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GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect in the 5 ft sample. The 10 ft sample resulted in a chloride concentration of 7,040 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. The 60 ft sample resulted in a chloride concentration of 2,960 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. Soil bore (SB-7) was drilled 50 ft north of the former junction box site and was advanced to a depth of 15 ft bgs. Soil samples were collected every 5 ft and each sample was field titrated for chloride and field screened for PIDs. The 10 ft and 15 ft samples were sent to a commercial laboratory for analysis, resulting in a chloride concentration of 832 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect in the 10 ft sample. The 15 ft sample resulted in a chloride concentration of 400 mg/kg and GRO/DRO/EXT-DRO and total BTEX concentrations of non-detect. Each borehole was plugged with bentonite to the ground surface.

Based on the collected soil data, the site was delineated to the concentrations listed in Table 1 of 19.15.29.12 NMAC to the north, south, and east. Chloride concentrations to the west increased in SB-3 and again in SB-6. The highest chloride concentrations observed at the site were found in SB-6, which is the soil bore furthest west from the source and closest to the non-ROC facility. This suggests the soil in that area was impacted by the non-ROC facility.

To determine if the residual chloride in the vadose zone pose a threat to groundwater quality, ROC ran the U.S. Environmental Protection Agency Exposure Assessment Multimedia Model (MULTIMED Version 1.5, 2005). The model output concludes that the peak concentration of chloride in groundwater contributed by the vadose zone soils would be approximately 239 mg/L in 35 years (based on boring data) with liner installation.

Corrective Action Plan (CAP) Report

A Corrective Action Plan (CAP) and Variance Request was submitted to NMOCD on January 29th, 2020 and was approved on May 3rd, 2022. The CAP proposed installing a 70x115-ft, 20-mil reinforced liner at 4-5 ft bgs.

On June 20th, 2022, ROC began excavating the site to a depth of 5 ft bgs. On June 27th, 2022, NMOCD was notified and acknowledged our intent to collect final samples. A representative 4-wall composite was collected on June 30th, 2022 and sent to a commercial laboratory for analysis. The sample resulted in a chloride concentration of 128 mg/kg, GRO/DRO/EXT-DRO concentrations below detectable limit, and a total BTEX concentration below detectable limit. Approximately 792 cubic yards of excavated soil were exported to Sundance Services. Thirteen representative samples were collected from the remaining excavated soil and were sent to the lab for analysis. Lab analysis resulted in chloride concentrations of 144 mg/kg, 144 mg/kg, 144 mg/kg, 112 mg/kg, 704 mg/kg, 496 mg/kg, 96 mg/kg, 96 mg/kg, 80 mg/kg, 256 mg/kg, 256 mg/kg, 416 mg/kg, and 144 mg/kg, respectively. GRO/DRO/EXT-DRO and total BTEX concentrations were below detectable limit in each excavated soil sample. Based on the excavated soil samples, an additional 1,020 cubic yards of excavated soil were exported to Sundance Services. The bottom of the excavation was padded with 6 inches of imported blow sand and a 20-mil, reinforced liner was installed and properly seated at 4.5 ft bgs. The top of the liner was padded with an additional 6 inches of imported blow sand, then the excavation was

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backfilled to ground surface with imported soil and the remaining excavated soil. A representative sample of the imported soil was analyzed by a commercial lab, resulting in a chloride concentration below detectable limit, GRO/DRO/EXT-DRO concentrations below detectable limit, and a total BTEX concentration below detectable limit. The backfilled site was seeded with a blend of native vegetation. Vegetation above the liner will also provide a natural infiltration barrier for the site, since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone.

Recommendations

ROC has completed the vadose zone remediation as approved by the NMOCD in the CAP and Variance Request. The 20-mil reinforced liner will inhibit the migration of chloride through the vadose zone to groundwater. As such, ROC respectfully requests termination of the regulatory file. ROC acknowledges they have met the requirements of 19.15.29 NMAC and a final C-141 is attached.

Please contact me at (575) 393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,

Kati Davis

Katie Davis Environmental Manager RICE Operating Company (ROC)

appendix

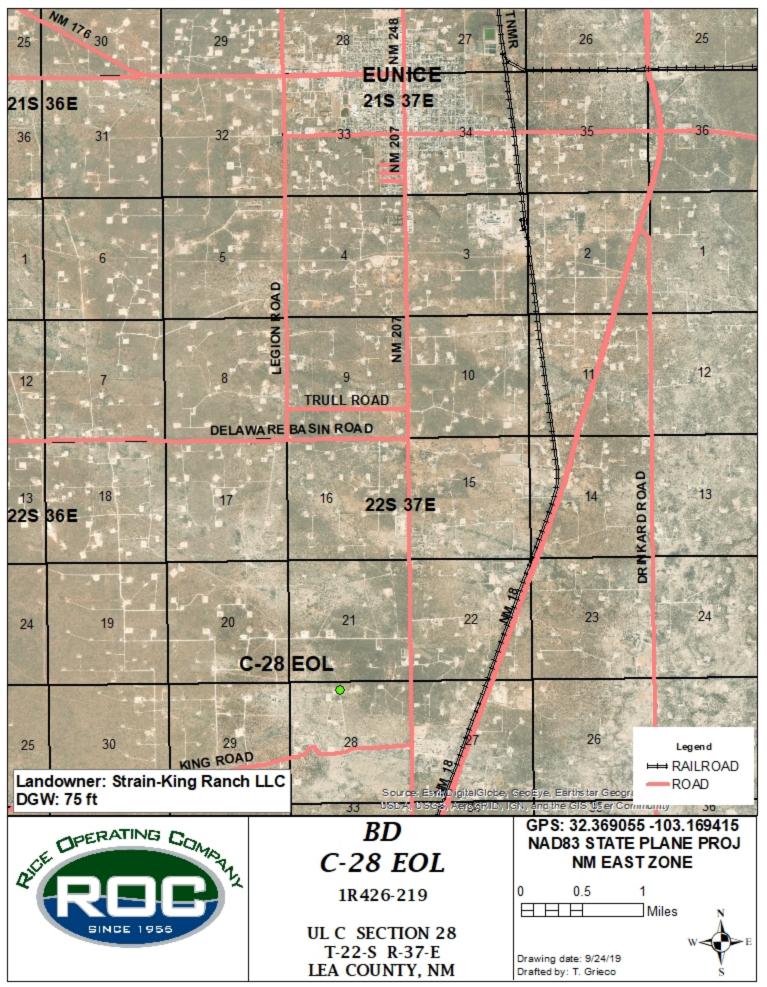
Figures

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174

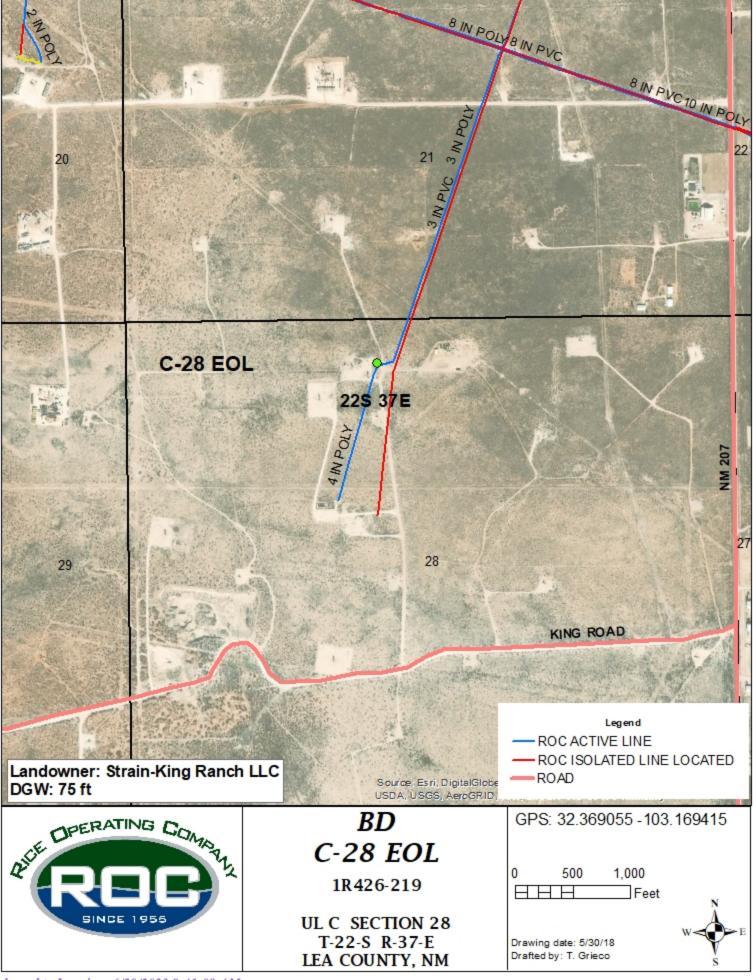
Received by OCD: 1/17/2023 10:22:10 AM Geographic Location

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Released to Imaging: 6/29/2023 9:41:08 AM

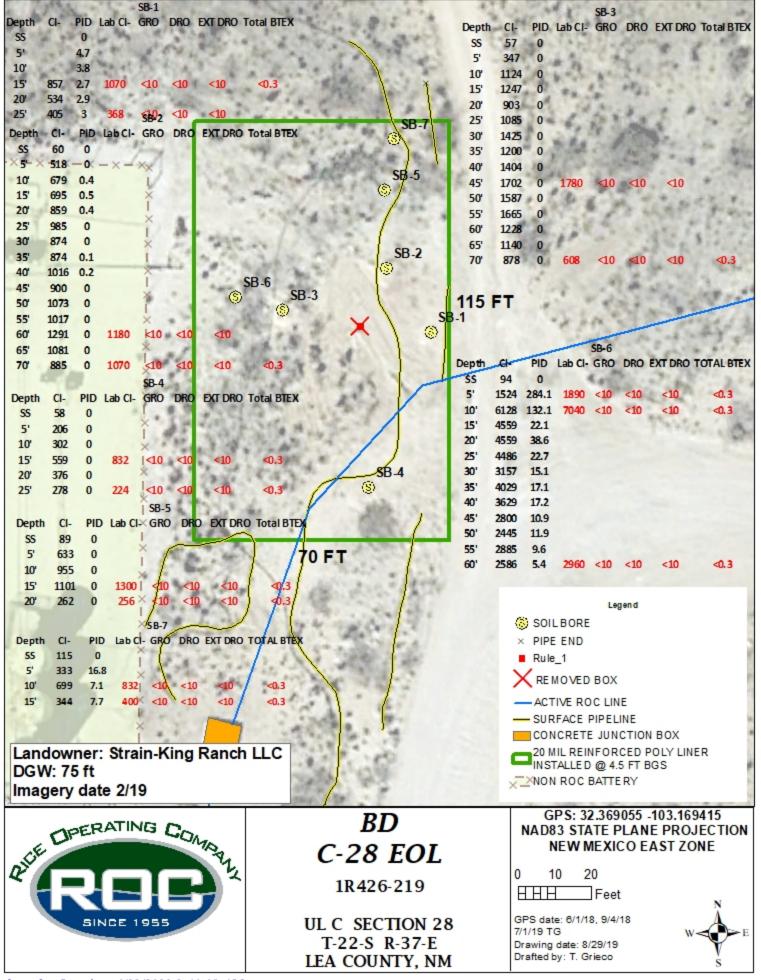
Area Map



Released to Imaging: 6/29/2023 9:41:08 AM

Received by OCD: 1/17/2023 10:22:10 AM Soil Bore Installation

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Excavation and Liner Installation

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174

BD C-28 EOL (1R426-219) Unit C, Section 28, T22S, R37E



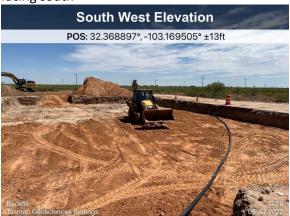
Site prior, facing south

5/27/2021



Exporting excavated soil, facing south

6/30/2022



Padding the excavation with imported blowsand, facing north7/5/2022



Excavating the site, 6/21/2022 facing north

South West Elevation POS: 32.368828°, -103.169577° ±13ft



Excavation completed to a depth of 5 ft bgs, facing north 7/5/2022



20-mil reinforced liner installed at 4.5 ft bgs,facing north7/6/2022



Importing soil, facing west

7/7/2022



Tilling the backfilled site, facing north

8/23/2022



Installing silt net fencing, facing north

8/24/2022



Backfilling above the 20-mil liner previously padded with imported blow sand 7/8/2022



Seeding backfilled site, facing northwest

8/23/2022



Site complete with vegetation, facing south

10/12/2022



July 05, 2022

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD C-28 EOL

Enclosed are the results of analyses for samples received by the laboratory on 07/01/22 8:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	07/01/2022	Sampling Date:	06/30/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 4 - WALL COMPOSITE (H222821-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2022	ND	2.04	102	2.00	6.63	
Toluene*	<0.050	0.050	07/05/2022	ND	2.00	99.9	2.00	7.38	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.00	99.8	2.00	6.83	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.12	102	6.00	6.42	
Total BTEX	<0.300	0.300	07/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/01/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2022	ND	221	110	200	3.68	
DRO >C10-C28*	<10.0	10.0	07/01/2022	ND	220	110	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	07/01/2022	ND					
Surrogate: 1-Chlorooctane	87.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	103 9	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240	2111 Beechwood, Abilene, TX 79603
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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Project Manager: Katie Jones / Kyle Norman P.O. #: Address: Company: Rice Operating 000000000000000000000000000000000000	Company Name:	Rice Operating										BI	LL TO						ANA	YSIS	REQUE	SI			
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after Conservations and the spherade service. In no event shall Cardinal be liable for incidental or consequential damages, including without infatton, business interruptions, loss of use, or loss of profiles incurred by clearly its substituaries. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By: Date: Received By: Phone Result: Yes No Add'l Phone #: Relinquished By: Date: Received By: Time: Received By: Image: Received By: Image: Received By:		-wall composite		1			~				6	/	6/30/22		1	~	~								
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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June 27, 2022

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD C-28 EOL

Enclosed are the results of analyses for samples received by the laboratory on 06/22/22 15:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471 Received: 06/22/2022 Sampling Date: 06/22/2022 Reported: 06/27/2022 Sampling Type: Soil Project Name: BD C-28 EOL Sampling Condition: Cool & Intact Project Number: nAPP2109853868 Sample Received By: Shalyn Rodriguez Project Location: NONE GIVEN

Sample ID: ES - 01 (H222678-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTEX	<0.300	0.300	06/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/24/2022	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	•						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/22/2022	Sampling Date:	06/22/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 02 (H222678-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTEX	<0.300	0.300	06/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/24/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	59.5-14	2						

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Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/22/2022	Sampling Date:	06/22/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 03 (H222678-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTEX	<0.300	0.300	06/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/24/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102 9	% 59.5-14	2						

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Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/22/2022	Sampling Date:	06/22/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 04 (H222678-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTEX	<0.300	0.300	06/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/24/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	89.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103 9	% 59.5-14	2						

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Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/22/2022	Sampling Date:	06/22/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 05 (H222678-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTEX	<0.300	0.300	06/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	06/24/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	93.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110 9	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/22/2022	Sampling Date:	06/22/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 06 (H222678-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2022	ND	2.19	109	2.00	11.4	
Toluene*	<0.050	0.050	06/24/2022	ND	2.14	107	2.00	11.4	
Ethylbenzene*	<0.050	0.050	06/24/2022	ND	2.11	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	06/24/2022	ND	6.58	110	6.00	11.7	
Total BTEX	<0.300	0.300	06/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/24/2022	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	218	109	200	2.69	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	221	111	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	(505) 393-2326 FAX (505) 393-2										LL TO					1	ANAL	YSIS	RE	QUE	ST		
Project Manager								P.O.	#:			_											
Address:								Com	pany	: R	ice Opera	ting					SL						
City:	State:	Zip:	:					Attn:	Ka	tie	Jones						õ						
Phone #:	Fax #:							Addr	ess:								An						
Project #: nAPP2109853868 Project Owner:						City:					0	Σ		I	s/I								
Project Name: E	3D C-28 EOL							State	:		Zip:		Chlorides	PH 8015	×	Texas TPH	ation	0		1			
Project Location								Phor	ne #:				Dr.ic		BTEX	S		TDS					
	Miguel Cardona Jr.							Fax #	# :				h	T	В	Xa	O						
FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	rewater			OTHER :			DATE	TIME	C	TPI		Te	Complete Cations/Anions						
1202010	ES-Ol	G	#		> (1	0,		1		6/22/22	8100 4h	1	1	1								
2	E5-02	G				1			1		6/22	9:150m		1	1								
SW	ES-03	G				/		1	1		6122	11:0804		-	1								
4	ES- 04	6				/			1		6122	1:00pm	1	1	1					-			
5	ES- 05	G			2	1	-	-	1		6/22	2:15pm	-	1	1						-		
le	ES-06	G				/		-	1		6/22	3:15pm	-	-	1								
analyses. All claims includi	d Damages. Cardinal's liability and client's exclusive remedy fo ng those for negligence and any other cause whatsoever shall bi ardinal be liable for incidental or consequental damages, includi ing out of or related to the performance of services hereunder by	e deemed	d waive	ed unle ation, b	ess mad	le in wri s interru	ting and ptions,	received oss of us	i by Can ie, or los	dinal v	vithin 30 days after rofits incurred by c	r completion of the lient, its subsidia	ne applica iries										
Relinquished B	y: Date: 6/22/22 Time:	Re		ved		1	e	io			2m	Phone Res Fax Resul REMARKS	sult: t:	□ Ye □ Ye		No No		Phone Fax #:	#:				
Relinquished B	y: Date: Time:	Re	cei	ved	By:				Y		0	email kjones	@ri	cesv			nori	man	@ta	sma	n-ge	o.cor	n
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Received by OCD: 1/17/2023 10:22:10 AM



June 27, 2022

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD C-28 EOL

Enclosed are the results of analyses for samples received by the laboratory on 06/23/22 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/23/2022	Sampling Date:	06/23/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	NAPP2109853868	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 07 (H222699-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2022	ND	1.97	98.4	2.00	7.17	
Toluene*	<0.050	0.050	06/25/2022	ND	1.95	97.5	2.00	6.84	
Ethylbenzene*	<0.050	0.050	06/25/2022	ND	1.89	94.5	2.00	6.94	
Total Xylenes*	<0.150	0.150	06/25/2022	ND	5.85	97.5	6.00	7.04	
Total BTEX	<0.300	0.300	06/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 69.9-14	0						
Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg			Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/27/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2022	ND	187	93.6	200	2.08	
DRO >C10-C28*	<10.0	10.0	06/25/2022	ND	200	100	200	9.08	
EXT DRO >C28-C36	<10.0	10.0	06/25/2022	ND					
Surrogate: 1-Chlorooctane	114 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	139 9	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/23/2022	Sampling Date:	06/23/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	NAPP2109853868	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 08 (H222699-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2022	ND	1.97	98.4	2.00	7.17	
Toluene*	<0.050	0.050	06/25/2022	ND	1.95	97.5	2.00	6.84	
Ethylbenzene*	<0.050	0.050	06/25/2022	ND	1.89	94.5	2.00	6.94	
Total Xylenes*	<0.150	0.150	06/25/2022	ND	5.85	97.5	6.00	7.04	
Total BTEX	<0.300	0.300	06/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/27/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	207	104	200	2.08	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	216	108	200	0.895	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	102 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	126 9	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/23/2022	Sampling Date:	06/23/2022
Reported:	06/27/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	NAPP2109853868	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 09 (H222699-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2022	ND	1.97	98.4	2.00	7.17	
Toluene*	<0.050	0.050	06/25/2022	ND	1.95	97.5	2.00	6.84	
Ethylbenzene*	<0.050	0.050	06/25/2022	ND	1.89	94.5	2.00	6.94	
Total Xylenes*	<0.150	0.150	06/25/2022	ND	5.85	97.5	6.00	7.04	
Total BTEX	<0.300	0.300	06/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/27/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2022	ND	207	104	200	2.08	
DRO >C10-C28*	<10.0	10.0	06/24/2022	ND	216	108	200	0.895	
EXT DRO >C28-C36	<10.0	10.0	06/24/2022	ND					
Surrogate: 1-Chlorooctane	111 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	137 9	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673

Project Manager: Katie Jones / Ky	le Norman						-			BI	LL 1	0	the start of the					ANIA	U VOI				
Address:	no norman						- 1	P.0.						T	T		T	ANA	LYSI	REQL	JEST		
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Phone #:	Fax #:	Zi	p:				1	Attn	: Ka	tie	Jones		0					US I					
Project #: nAPP2109853868									ress:									9.1					
Project Name: BD C-28 EOL	Project Ow	ner:					C	City:						1	Σ			A					
Project Location:							s	state	:	2	Zip:			SS			L T	Sr Sr					
Sampler Name: Miguel Cardona Jr.							P	hon	e #:					Chlorides	TPH 8015	BTEX	Texas TPH	Cations/Anions	0				
FOR LAB USE ONLY		_	_				Fa	ax #	:					ò	8	Ĩ	3S	at	TDS				
		۵.			MAT	RIX	_	PR	ESEF	RV.	SAM	LING		5	T	B	X	0					
Lab I.D. Sample I. 222699 1 E - 07 2 E - 08 3 E - 09 3 E - 09		66	# CONTAINERS				OTHER:			64	DATE 23 22 23 22 23 22	9:12:2:3	sopa		T T		F	Complete					
E NOTE: Liability and Damages. Cardinal's liability and client's s. All claims including those for negligence and any other cause In no event shall Cardinal be liable for incidental or consequent or successors arising out of or related to the performance.	exclusive remedy for an	claim aris	sing who	ether has									+	-	+	+	-	-					t
Is Note: Lability and Damages. Cardinal's liability and client's of s. All claims including those for negligence and any other cause In no event shall Cardinal be liable for incidental or consequent or successors arising out of or related to the performance of see and the second secon	e whatsoever shall be de tal damages, including w	emed waiv ithout limit	ved unle tation, b	ess made	e in writin	ng and re	tort, si eceived	hall be d by Ca	limited to Indinal wi	o the a thin 30	mount paid days after	by the clie completion	ent for the	nlicable									
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Page 6 of 6



June 29, 2022

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD C-28 EOL

Enclosed are the results of analyses for samples received by the laboratory on 06/24/22 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/24/2022	Sampling Date:	06/24/2022
Reported:	06/29/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	** (See Notes)
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 10 (H222723-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2022	ND	1.76	87.8	2.00	3.48	
Toluene*	<0.050	0.050	06/28/2022	ND	1.72	86.0	2.00	3.46	
Ethylbenzene*	<0.050	0.050	06/28/2022	ND	1.70	85.1	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/28/2022	ND	5.20	86.6	6.00	1.47	
Total BTEX	<0.300	0.300	06/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2022	ND	195	97.5	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/28/2022	ND	193	96.4	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	06/28/2022	ND					
Surrogate: 1-Chlorooctane	90.8	% 43-149)						
Surrogate: 1-Chlorooctadecane	99.6	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471 Received: 06/24/2022 Sampling Date: 06/24/2022 Reported: 06/29/2022 Sampling Type: Soil Project Name: BD C-28 EOL Sampling Condition: ** (See Notes) Sample Received By: Project Number: nAPP2109853868 Shalyn Rodriguez Project Location: NONE GIVEN

Sample ID: ES - 11 (H222723-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2022	ND	1.76	87.8	2.00	3.48	
Toluene*	<0.050	0.050	06/28/2022	ND	1.72	86.0	2.00	3.46	
Ethylbenzene*	<0.050	0.050	06/28/2022	ND	1.70	85.1	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/28/2022	ND	5.20	86.6	6.00	1.47	
Total BTEX	<0.300	0.300	06/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2022	ND	208	104	200	3.75	
DRO >C10-C28*	<10.0	10.0	06/27/2022	ND	208	104	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	06/27/2022	ND					
Surrogate: 1-Chlorooctane	102	% 43-149)						
Surrogate: 1-Chlorooctadecane	114	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	06/24/2022	Sampling Date:	06/24/2022
Reported:	06/29/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	** (See Notes)
Project Number:	nAPP2109853868	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: ES - 12 (H222723-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2022	ND	1.76	87.8	2.00	3.48	
Toluene*	<0.050	0.050	06/28/2022	ND	1.72	86.0	2.00	3.46	
Ethylbenzene*	<0.050	0.050	06/28/2022	ND	1.70	85.1	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/28/2022	ND	5.20	86.6	6.00	1.47	
Total BTEX	<0.300	0.300	06/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2022	ND	208	104	200	3.75	
DRO >C10-C28*	<10.0	10.0	06/27/2022	ND	208	104	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	06/27/2022	ND					
Surrogate: 1-Chlorooctane	103 9	6 43-149							
Surrogate: 1-Chlorooctadecane	117 9	6 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471 Received: 06/24/2022 Sampling Date: 06/24/2022 Reported: 06/29/2022 Sampling Type: Soil Project Name: BD C-28 EOL Sampling Condition: ** (See Notes) Sample Received By: Project Number: nAPP2109853868 Shalyn Rodriguez Project Location: NONE GIVEN

Sample ID: ES - 13 (H222723-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2022	ND	1.76	87.8	2.00	3.48	
Toluene*	<0.050	0.050	06/28/2022	ND	1.72	86.0	2.00	3.46	
Ethylbenzene*	<0.050	0.050	06/28/2022	ND	1.70	85.1	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/28/2022	ND	5.20	86.6	6.00	1.47	
Total BTEX	<0.300	0.300	06/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2022	ND	208	104	200	3.75	
DRO >C10-C28*	<10.0	10.0	06/27/2022	ND	208	104	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	06/27/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	100 9	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	e: Rice Operating	(1-					Γ	(COLUMN TWO IS NOT	A DESCRIPTION OF THE OWNER	LTO		-				ANA	LYSIS	REQ	UEST			
Project Manage	er: Katie Jones / Kyl	e Norman							P.(0. #.															
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City:		State:	Zi	p:									Jones												
Phone #:		Fax #:							Ad	dre	ss:								i,						
Project #: nAP	P2109853868	Project Own	ner:						Cit	y:						Σ			A						
Project Name:	BD C-28 EOL								Sta	ate:		2	Zip:		Chlorides			a.	L L						
Project Locatio	n:								Ph	one	#:				5	TPH 8015	BTEX	Texas TPH	atic	S					
Sampler Name:	Miguel Cardona Jr.								Fa	x #:					2		1		Ö	P					
FOR LAB USE ONLY				Т		M	ATRI	х		PRE	SER	۲V.	SAMPL	NG	1	日	-	e,	fe						
Lab I.D. H222723	Sample	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME		Н			Complete						
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analyses. All claims includin service. In no event shall C	d Damages. Cardinal's liability and cli ng those for negligence and any other ardinal be liable for incidental or conse ng out of or related to the performance	cause whatsoever shall equental damages, inclu	be deeme ding witho	d waive ut limita	ed unles ation, bu	ss made usiness	in writi	ing and tions, l	receit	ved by use, o	Cardin r loss c	al with	hin 30 days afte fits incurred by c	r completion of th lient, its subsidiar	e applical ries	ble								1	<u> </u>
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 37 of 46

Page 7 of 7



October 31, 2022

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD C-28 EOL

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 9:23.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	10/25/2022	Sampling Date:	10/24/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	BD C-28 EOL	Sampling Condition:	Cool & Intact
Project Number:	nAPP2109853868	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: IMPORTED SOIL (H225003-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.93	96.6	2.00	3.73	
Toluene*	<0.050	0.050	10/31/2022	ND	2.13	107	2.00	2.06	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	102	2.00	2.15	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.92	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID 98.2 % 69.9-140									
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	195	97.4	200	4.35	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	180	90.1	200	0.0649	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	89.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.2	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240	2111 Beechwood, Abilene, TX 79603
(TAT) 000 0000 FAV (FOF) 202 0476	

Company Name	(505) 393-2326 FA												L TO					1	NAL	YSIS	RE	QUE	ST			
Project Manage	r: Katie Jones / Kyle	Norman							Ρ.0). #																
Address:									Co	mp	any	: Ri	ce Operat	ing					SC							
City:		State:	Zip:						Att	n:	Ka	tie .	Jones						jo l							
Phone #:		Fax #:			Addr						Address:								Cations/Anions							
Project #: nAPI	P2109853868	Project Owner:					City:								S	Σ		I	s/ł							
Project Name:									Sta	ate:			Zip:		Chlorides	15	×	Texas TPH	ou	0	I					
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FOR LAB USE ONLY						M	ATR	X	-	PR	ESE	RV.	SAMPLIN	IG	O	TPH		Le L	ete							
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	DTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					Complete							
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CHECKED BY:

(Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

1.1 C #113

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Sample Condition Cool Intact Yes Yes No No

Received by OCD: 1/17/2023 10:22:10 AM

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4 Page 4 of

From:	Billings, Bradford, EMNRD
To:	Katie Jones; Sanchez, Daniel J., EMNRD; EMNRD-OCD-District1spills
Cc:	<u>"knorman@tasman-geo.com"</u>
Subject:	RE: [EXTERNAL] ROC Work Schedule
Date:	Thursday, June 16, 2022 1:49:36 PM

Thank you. Please keep this communication and include in allied report(s).

Bradford Billings

From: Katie Jones <kjones@riceswd.com>
Sent: Thursday, June 16, 2022 1:47 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Sanchez, Daniel J., EMNRD
<daniel.sanchez@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCDDistrict1spills@state.nm.us>
Cc: 'knorman@tasman-geo.com' <knorman@tasman-geo.com>

Subject: [EXTERNAL] ROC Work Schedule

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

Please find attached the work schedule for next week. As field conditions may be unpredictable, please call ROC for verification of a more specific time frame for any particular site. Thank you,

Katie Jones Davis Environmental Manager *RICE* Operating Company

From:	Billings, Bradford, EMNRD
То:	Katie Jones
Subject:	RE: [EXTERNAL] ROC Work Schedule
Date:	Tuesday, June 28, 2022 8:12:24 AM

Hi,

Thank you for the notification. Please retain this communication and include in associated report(s).

Bradford Billings EMNRD/OCD

From: Katie Jones <kjones@riceswd.com>
Sent: Monday, June 27, 2022 1:28 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Sanchez, Daniel J., EMNRD
<daniel.sanchez@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCDDistrict1spills@state.nm.us>
Cc: 'knorman@tasman-geo.com' <knorman@tasman-geo.com>
Subject: [EXTERNAL] ROC Work Schedule

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

Please find attached the work schedule for this week.

The excavation is nearing completion, and ROC will collect the final 4-wall composite sample on Thursday, June 30. Please let me know if you have any questions or require any additional information.

Thank you,

Katie Jones Davis Environmental Manager *RICE* Operating Company

Final C-141

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174 Oil Conservation Division

Incident ID	nAPP2109853868
District RP	1R426-219
Facility ID	fEJH0936250269
Application ID	pEJH0936250359

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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: Katie Davis Title: Environmental Manager Date: 1/17/2023 email: kjones@riceswd.com Telephone: 575-393-9174										
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: Nelson Velez Date: 06/29/2023										
Printed Name: Nelson Velez Title:Environmental Specialist – Adv										

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

Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	176630
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Depth to water determined to be between 51-100 feet below grade. Report has met 19.15.29 NMAC. Release resolved.	6/29/2023

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Action 176630