PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

May 17, 2018

Bradford Billings

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

> RE: Corrective Action Plan (CAP) Report and Soil Closure Request Rice Operating Company - BD SWD System BD Jct. B-1 (1R426-256): UL/B, Sec. 1, T22S, R36E

Mr. Billings:

RICE Operating Company (ROC) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site in the BD Salt Water 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 3.38 miles southwest of Eunice, New Mexico at UL/B, Sec. 1, T22S, R36E as shown on the Geographical Location Map and Area Map. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 137 feet below ground surface (bgs).

In 2009, ROC initiated work on the former B-1 junction box. The site was delineated using a backhoe to form a 30 ft x 40 ft x 12 ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. The excavated soil was blended on site and representative samples were collected from the excavation walls and excavation bottom and sent to a commercial laboratory for analysis. Laboratory tests of the four-wall composite showed a chloride reading of 3,840 mg/kg, a diesel range organics (DRO) reading of 17.4 mg/kg, and a gasoline range organics (GRO) concentration below detectable limit. The bottom composite resulted in a chloride reading of 2,600 mg/kg, a DRO reading of 482 mg/kg, and a GRO reading of non-detect. The excavation was backfilled with the blended backfill below the clay liner to 5 ft below ground surface (bgs). A sample of the backfill was sent to a commercial laboratory for analysis, resulting in a chloride concentration of 2,240 mg/kg, a GRO reading of non-detect and a DRO reading of 617 mg/kg. At 5 – 4 ft bgs, a 1 ft thick clay barrier was installed. The clay layer will provide a barrier that will inhibit the downward migration of chlorides to groundwater. The remaining backfill was blended with clean, imported soil and used to backfill the excavation to ground surface and contour to the surrounding area. A sample of the blended backfill above

the clay liner was sent to a commercial laboratory for analysis, resulting in a chloride, GRO, and DRO concentrations of non-detect. On 9/9/2009, the site was seeded with a blend of native vegetation.

To further investigate the presence of chloride, one soil bore was installed on September 28th, 2009. Soil bore 1 (SB-1) was installed at the source of the former junction box and was advanced to a depth of 115 ft bgs. Soil samples were collected at regular intervals, and each sample field titrated for chlorides. Chloride concentrations decreased with depth to concentrations. The 25 ft sample and 115 ft sample at SB-1 were sent to a commercial laboratory for analysis, resulting in a 25 ft chloride concentration of 4,640 mg/kg and a 115 ft chloride concentration of 576 mg/kg. GRO and DRO were below detectable limit throughout. The bore hole was plugged with bentonite to ground surface.

NMOCD was notified of potential groundwater impact on February 26th, 2010. A junction box disclosure report was submitted to NMOCD with all the 2009 junction box closures and disclosures.

Investigation and Characterization Plan (ICP) Report

As part of the Investigation and Characterization Plan (ICP) submitted to NMOCD on February 19th, 2015, and approved on February 20th, 2015, ten additional soil bores were installed at the site (Soil Bore Installation Plats 1-5 and 2-11). Soil bores 2 – 11 were installed on May 6th and 7th, 2015. As the soil bores were installed, soil samples were taken at regular intervals and field tested for chlorides and organic vapor. Representative samples from each bore were taken to a commercial laboratory for analyses.

SB-2 was installed to 115 ft bgs. The 30 ft bgs, 70 ft bgs, 100 ft bgs and 115 ft bgs samples were taken to a commercial laboratory for analyses. The 30 ft bgs sample returned a laboratory chloride reading of 752 mg/kg, a GRO reading of 58.5 mg/kg, a DRO reading of 2,010 mg/kg, and a total BTEX reading of 0.297 mg/kg. The 70 ft sample returned a laboratory chloride readings of 1,960 mg/kg, a GRO reading of non-detect and a DRO reading of 133 mg/kg. The 100 ft sample returned a laboratory chloride reading of 2,080 mg/kg and a DRO reading of 18.7 mg/kg. The GRO and BTEX readings returned values of non-detect. The 115 ft sample returned a laboratory chloride reading of 1,570 mg/kg, with GRO, DRO and BTEX readings of non-detect.

SB-3 was installed to 40 ft bgs, and the 10 ft bgs and 40 ft bgs samples returned laboratory chloride readings of 2,880 mg/kg and 224 mg/kg, respectively. SB-4 was installed to 60 ft bgs, and the 10 ft bgs and 60 ft bgs samples returned laboratory chloride readings of 2,640 mg/kg and 240 mg/kg, respectively. SB-5 was installed to 15 ft bgs, and the 5 ft bgs and 15 ft bgs samples returned laboratory chloride readings of 1,500 mg/kg and 176 mg/kg, respectively. SB-6 was

installed to 115 ft bgs, and the 25 ft bgs and 115 ft bgs samples returned laboratory chloride readings of 2,000 mg/kg and 976 mg/kg, respectively. SB-7 was installed to 115 ft bgs, and the 20 ft bgs and 115 ft bgs samples returned laboratory chloride readings of 4,400 mg/kg and 2,120 mg/kg, respectively. SB-8 was installed to 115 ft bgs, and the 15 ft bgs and 115 ft bgs samples returned laboratory chloride readings of 5,360 mg/kg and 1,800 mg/kg, respectively. SB-9 was installed to 15 ft bgs, and the 5 ft bgs and 15 ft bgs samples returned laboratory chloride readings of 304 mg/kg and 112 mg/kg, respectively. SB-10 was installed to 60 ft bgs. The surface sample returned a laboratory chloride reading of 4,400 mg/kg, the 5 ft bgs sample returned a laboratory chloride reading of 1,840 mg/kg and the 60 ft bgs sample returned a laboratory chloride reading of 224 mg/kg. SB-11 was installed to 30 ft bgs, and the 5 ft bgs and 30 ft bgs samples returned laboratory chloride readings of 3,000 mg/kg and 224 mg/kg, respectively. The GRO and DRO readings for SB 3-11 returned values of non-detect at all depths.

The former junction box was located north of a non-ROC facility. Basin analyzed historical photos to determine if there was any other indication of historical oilfield activity surrounding the former junction box. The non-ROC facility appears to date back to 1949 and has since grown to the current size.

CAP Report and Soil Closure Request

A Corrective Action Plan (CAP) was submitted and approved by the NMOCD on September 7th, 2017. The CAP proposed installing a modified 62 x 109 ft, 20-mil reinforced liner at 5-4 ft bgs.

In order to inhibit the downward migration of residual constituents through the vadose zone, ROC installed a 20-mil reinforced poly liner across the site with the dimensions of approximately 62 x 109 ft, which covered the existing 30x40-ft clay liner. A total of 1,524 cubic yards of excavated soil were taken to a NMOCD approved facility for disposal. The bottom of the excavation was padded with 6 inches 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 6 inches of imported blow sand, and the excavation was backfilled to ground surface with imported top soil (a total of 1,560 cubic yards of imported soils). A sample of the imported blow sand and a sample of the imported top soil were field tested for hydrocarbons using a PID, each resulting in readings of 0.2 ppm, 0.2 ppm, respectively. Each sample was sent to a commercial laboratory for analysis of chloride and returned a result of <16 mg/kg, and 16 mg/kg, respectively. The backfilled site was then 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. Documentation of this work is included in the Appendix.

Groundwater Monitoring Plan

In order to determine what affect the residual chlorides may have had on the groundwater quality below the site, BEST recommends that ROC install a near-source monitor well (MW-1) located approximately 60 feet down-gradient of the former junction box. To determine if there is an upgradient source of contaminates coming onto the site, MW-2 will be installed approximately 90 feet up-gradient of the former junction box. Also, an additional monitoring well will be installed approximately 170 feet downgradient of the former junction box (see Proposed MW Locations). Additional monitoring wells may be required to fully delineate groundwater quality. The monitor wells will be installed to NMOCD and EPA standards and then sampled quarterly. Once the monitor wells at the site have been analyzed for chloride and BTEX readings, ROC will either submit a groundwater remedy to NMOCD to address groundwater quality at the site or submit a termination request for site closure.

ROC has completed the remediation as approved by NMOCD in the CAP. The 20-mil reinforced liner will inhibit the migration of chlorides through the vadose zone in to groundwater. Therefore, ROC requests "Soil Closure" or similar closure status.

Basin appreciates the opportunity to work with you on this project. Please call Katie Jones Davis at (575) 393-9174 or me if you have any questions or wish to discuss the site.

Sincerely,

Edward J. Hansen Senior Hydrologist

Basin Environmental Service Technologies

Attachments:

Figure 1 – Geographical Location Map

Figure 2 – Area Map

Edward Hansen

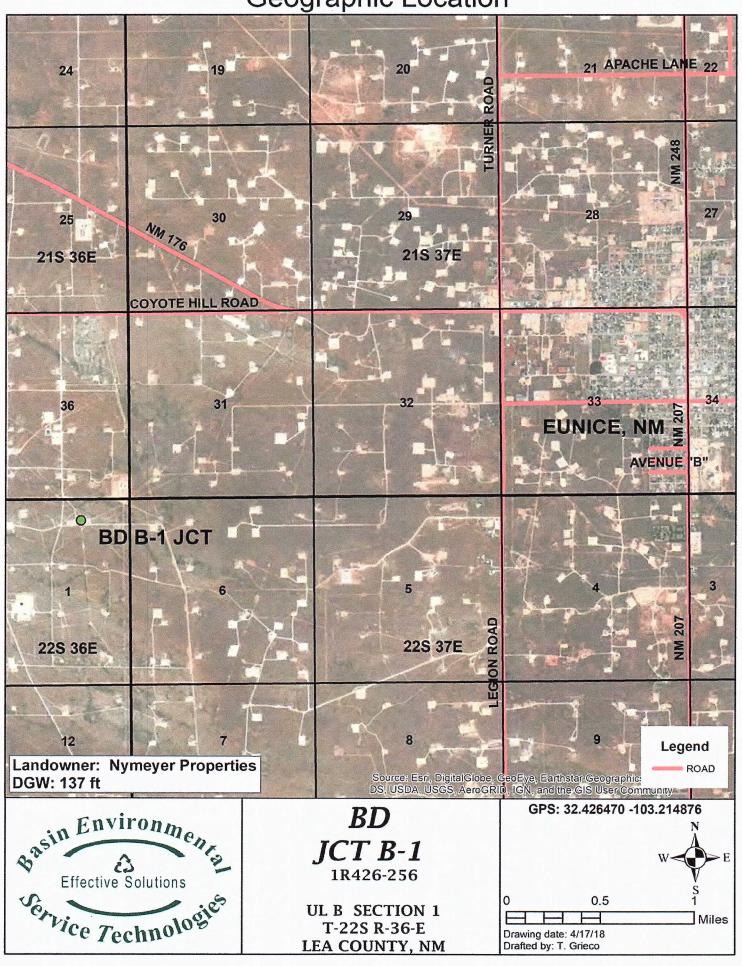
Figure 3 – Installed Liner Plat

Figure 4 – Proposed GW Monitoring Wells Plats

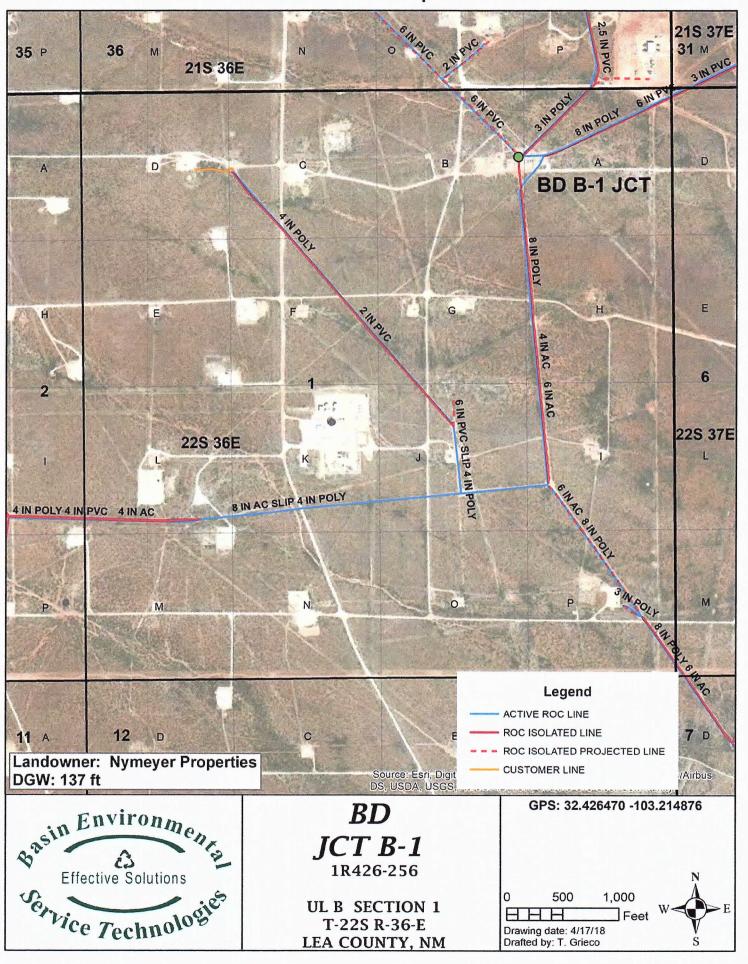
Appendix – Liner Installation Documentation

Plats

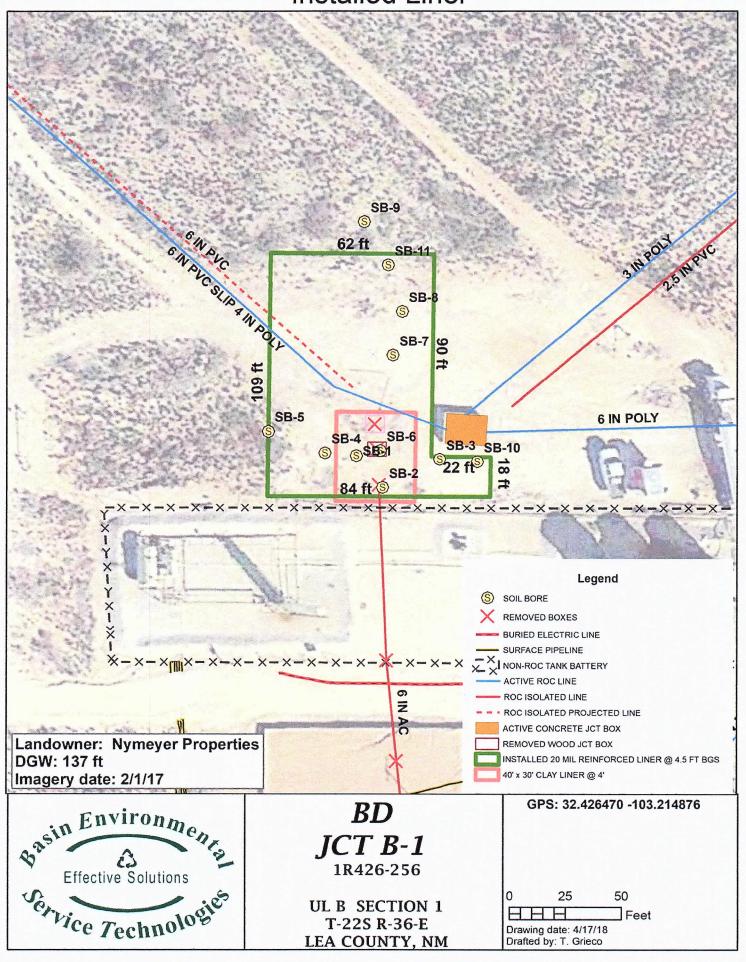
Geographic Location



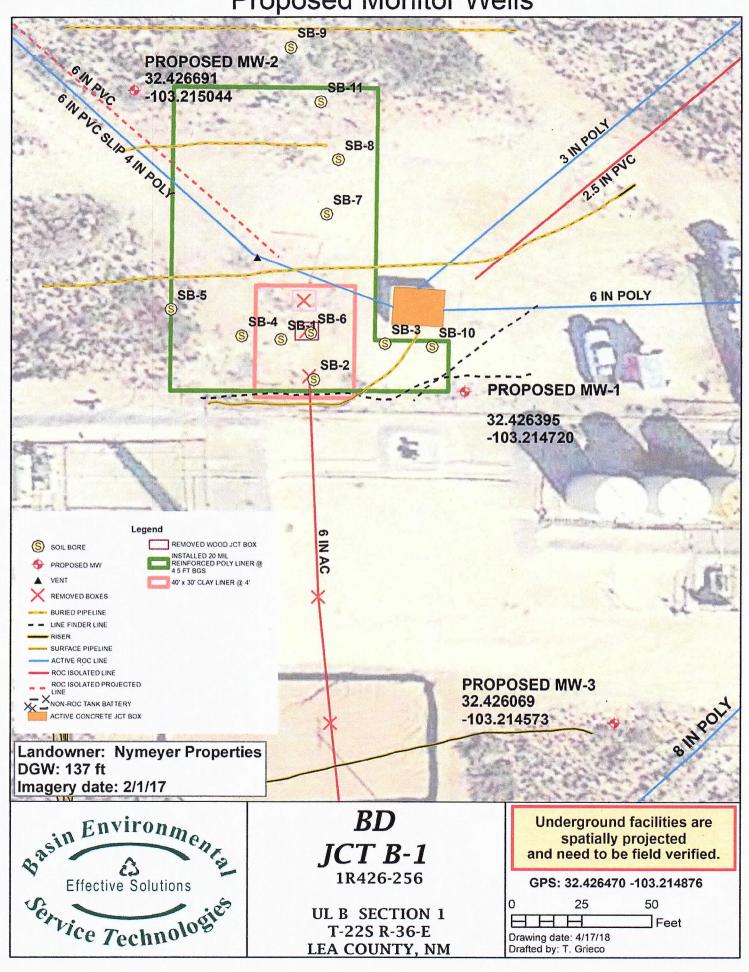
Area Map



Installed Liner



Proposed Monitor Wells



Appendix

BD Jct. B-1

Unit B, Section 1, T22S, R36E



Spotting lines with hydrovac, facing east

11/6/2017



Exporting excavated soil, facing northwest

11/14//2017



Importing blow sand, facing northwest 11/27/2017



Excavating the site to 5 ft bgs, facing west

11/14/2017



Excavating the site, facing east

11/22/2017



Padding excavation with imported blow sand, facing north 11/27/2017



Padding the 20-mil, reinforced liner with imported blow sand, facing east 11/29/2017



Completing backfill, facing east

12/4/2017



Backfilling the excavation with imported soil, facing southwest 12/6/2017



Site seeded, and silt net fence installed, facing south 12/18/2017



December 04, 2017

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JCT B-1

Enclosed are the results of analyses for samples received by the laboratory on 11/28/17 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited 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.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES

112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:

11/28/2017

Sampling Date:

11/28/2017

Reported:

12/04/2017

Sampling Type:

Soil

Project Name:

BD JCT B-1 NONE GIVEN Sampling Condition:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Sample ID: IMPORTED BLOW SAND (H703269-01)

Chloride, SM45UUCI-B	mg,	/кд	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/29/2017	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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Celeg T. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Date:

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11-28-17

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☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

Tasman Geosciences, Inc.

2620 W Marland Hobbs, NM 88240 PHONE: (575) 318-5017 PID METER CALIBRATION & FIELD REPORT FORM

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SIGNATURE: Karanja Lewis



December 07, 2017

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JCT B-1

Enclosed are the results of analyses for samples received by the laboratory on 12/01/17 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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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.

Celes D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 397-1471

Received:

12/01/2017 12/07/2017 Sampling Date: Sampling Type: 12/01/2017

Reported:

BD JCT B-1

Sampling Condition:

Soil Cool & Intact

Project Name: Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: IMPORTED TOP SOIL (H703318-01)

Chloride, SM4500CI-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	12/04/2017	ND	432	108	400	0.00	

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Celeg T. Keene



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 T. Keene



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2620 W Marland Hobbs, NM 88240 PHONE: (575) 318-5017 PID METER CALIBRATION & FIELD REPORT FORM

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LOT NO: 544188			EXPIRATION DATE	: 8/16/2019	
	METER	R READING A	CCURACY: 100 ppm		
		ACCURAC	CY:+/-2%		
		CO	MPANY		
		RICE Op	perating Company		
SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	Jct. B-1	В	1	228	36E
SAI	MPLE ID	PID	SA	AMPLE ID	PID
Impor	ted Top Soil	0.2			7
T	41-4 T b1:14-1 41-	1		a manufacture aparation many	-1

DATE: 12/1/2017

SIGNATURE: <u>Karanja Lewis</u>



VEGETATION FORM

	Information

Site name: BD Jo U/L	Section	Township	Range	County	Latitude	Longitude
В	1	228	37E	Lea	32.42647	-103.214876
Contact Name:	Katie Jones Davis					
Email:	kjones@riceswd.com					
Site size:	19,015 square feet					

2. Soils	*Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.								
Salvaged from site	Bioremediated	Imported	X	Blended			Depth (in)		
Texture: sandy		Describe soil &	subsoi	l: top so	il and	blow san	d		
Soil prep methods:	Rip	Depth (in)		Disc	X		Depth (in)	3	Rollerpack
Date completed: 12/7/2	017								

Bio		

Fertilizer	Hay	Other
Туре:	Describe:	Describe:
Lbs/acre:		

4. Seeding										
Custom Seed Mix	X	Prescribed Mix		Seed Mix N	ame: 10 lbs L	ea Cour	nty Mix & 50 lbs Beardless Wheat Seed Mix	Date:	12/8/2017	
Method: broadcast	with se	eeder								
Soil conditions during	seed:	Dry	X	Damp	Wet					
Observations: Seed	was t	illed into the soil								

5. Certification		I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.				
Name:	Katie Jones	Davis	Title:	Environmental Manager	Date:	12/8/2017
Signature:	the	192127				