20055 Laredo Ln Monument, CO 80132 Tel: 719-339-6791 E-mail: lpg@texerra.com

March 18th, 2015

Dr. Tomas Oberding New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504

RE: 2014 Annual Report

Rice Operating Company BD P-26-1 and BD P-26-2 (AP-97) T21S, R37E, Sec. 26, UL P

Sent by E-mail

Dr. Oberding:

This letter summarizes progress made over the past calendar year for these sites, which are operated by Rice Operating Company (ROC). Location and site schematic maps are given in the Appendix (Figures 1 and 2, respectively). In brief:

BD P-26-1

Groundwater chloride concentrations in the near-source monitor well (MW-1) continued the general decline that began in late 2012, ending the 2014 reporting year at 204 mg/l (Appendix – Figure 3, Table 1). Groundwater concentrations in the down-gradient monitor well (MW-3) continued the general decline that began in July 2013, also ending the 2014 reporting year at 204 mg/l. BTEX concentrations remained below the limits of laboratory detection, as they have since they were first sampled in 2007. The depth to groundwater across this location averaged approximately 55 ft bgs in 2014.

BD P-26-2

Groundwater chloride concentrations in the near-source monitor well (MW-1) continued the general decline that began in July 2013, ending the 2014 reporting year at 372 mg/l (Appendix – Figure 4, Table 2). Chloride concentrations in the down-gradient well (MW-2) ended the 2014 reporting year with a concentration of 690 mg/l, down from 1,120 mg/l in the fourth quarter of 2013. Groundwater chloride concentrations in the second, down-gradient monitor well, MW-3, averaged 705 mg/l in 2014 which was unchanged from the average of the first two samples taken from this well in 2013. BTEX concentrations remained below the limits of laboratory detection, as they have since they were first sampled in 2007. The depth to groundwater at this site is approximately 52 ft bgs.

BD P-26 1&2 Annual Report

These data indicate that groundwater impacts from residual soil chlorides are gradually abating at both locations due to dilution, and this suggests that the total groundwater chloride mass beneath both locations is relatively small. We plan to continue to monitor groundwater for chlorides during 2015 and use this data to elucidate trends.

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

Please do not hesitate to contact either Rice Operating Company or myself if you have any questions or need additional information.

Thank you for your consideration.

Sincerely,

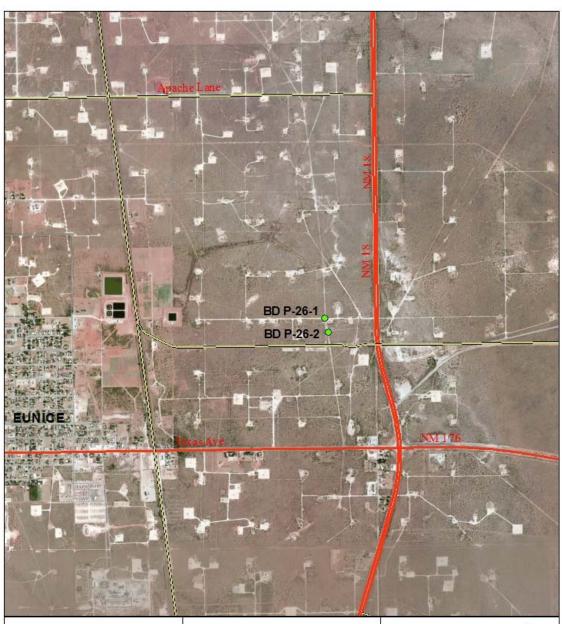
NM Prof. Engineer No. 22561

L. Peter Galusky, Jr. P.E.

Copy: Rice Operating Company

Attachments: Appendix

Texerra LLC 2





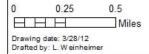
BD P-26-1 & 2

NMOCD Case#: AP-97

UL/P SECTION 26 T-21-S R-37-E LEA COUNTY, NM

Figure 1





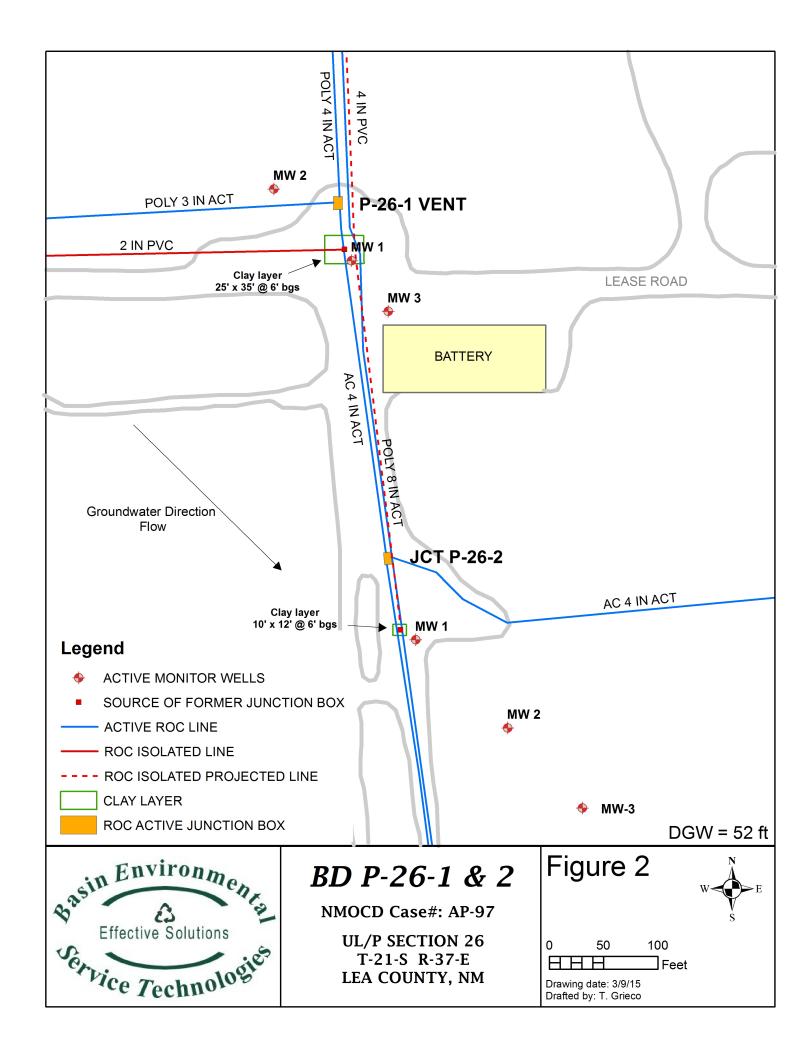


Figure 3

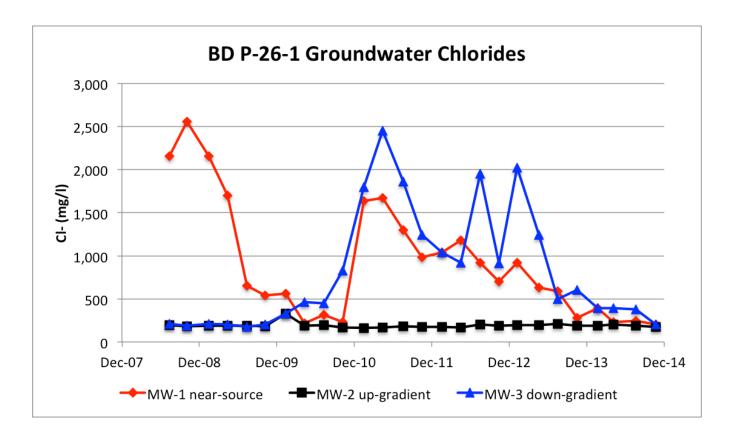


Table 1

BD P-26-1

	Groundwate	er Chloride Co	onc (mg/l)		Groundwate	er Total BTEX (Conc (mg/l)
	MW-1 near-	MW-2 up-	MW-3 down-		MW-1 near-	MW-2 up-	MW-3 down-
<u>Date</u>	source	gradient	gradient	<u>Date</u>	source	gradient	gradient
7/16/08	2,160	196	212	7/16/08	nd	nd	nd
10/6/08	2,560	184	188	10/6/08	nd	nd	nd
1/16/09	2,160	192	208	1/16/09	nd	nd	nd
4/15/09	1,700	188	204	4/15/09	nd	nd	nd
7/15/09	650	192	176	7/15/09	nd	nd	nd
10/9/09	540	180	204	10/9/09	nd	nd	nd
1/15/10	560	328	328	1/15/10	nd	nd	nd
4/13/10	220	192	460	4/13/10	nd	nd	nd
7/13/10	316	196	450	7/13/10	nd	nd	nd
10/8/10	232	168	830	10/8/10	nd	nd	nd
1/18/11	1,640	164	1,800	1/18/11	nd	nd	nd
4/14/11	1,670	168	2,450	4/14/11	nd	nd	nd
7/21/11	1,300	180	1,860	7/21/11	nd	nd	nd
10/17/11	980	172	1,240	10/17/11	nd	nd	nd
1/20/12	1,040	176	1,040	1/20/12	nd	nd	nd
4/19/12	1,180	168	920	4/19/12	nd	nd	nd
7/17/12	920	204	1,950	7/17/12	nd	nd	nd
10/15/12	700	192	910	10/15/12	nd	nd	nd
1/9/13	920	196	2,020	1/9/13	nd	nd	nd
4/22/13	630	196	1,240	4/22/13	nd	nd	nd
7/18/13	590	208	500	7/18/13	nd	nd	nd
10/18/13	280	188	600	10/18/13	nd	nd	nd
1/24/14	392	192	390	1/24/14	nd	nd	nd
4/8/14	232	204	390	4/8/14	nd	nd	nd
7/22/14	244	192	380	7/22/14	nd	nd	nd
10/24/14	204	172	204	10/24/14	nd	nd	nd



November 04, 2014

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD P-26-1 VENT

Enclosed are the results of analyses for samples received by the laboratory on 10/29/14 15:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/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. 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



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/29/2014 Sampling Date: 10/24/2014 Reported: Sampling Type: 11/04/2014 Water Project Name: BD P-26-1 VENT Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Celey D. Keene

Project Location: T21S R37E SEC26 P-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H403334-01)

BTEX 8260B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	10/31/2014	ND	0.019	92.8	0.0200	6.96	
Toluene*	<0.001	0.001	10/31/2014	ND	0.020	101	0.0200	3.13	
Ethylbenzene*	< 0.001	0.001	10/31/2014	ND	0.022	108	0.0200	3.95	
Total Xylenes*	<0.003	0.003	10/31/2014	ND	0.071	118	0.0600	2.49	
Total BTEX	<0.006	0.006	10/31/2014	ND					
Surrogate: Dibromofluoromethane	97.8 % 88.3-113		3						
Surrogate: Toluene-d8	96.4	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	97.8	% 87.2-11	4						
Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	204	4.00	10/30/2014	ND	104	104	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	173	25.0	10/30/2014	ND	19.8	99.2	20.0	0.303	
TDS 160.1	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	904	5.00	11/03/2014	ND	542	103	527	2.04	

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Celey D. Keine



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/29/2014 Reported: 11/04/2014

Project Name: BD P-26-1 VENT Project Number: NOT GIVEN

Project Location: T21S R37E SEC26 P-LEA CTY., NM Sampling Date: 10/24/2014 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene

Sample ID: MONITOR WELL #2 (H403334-02)

BTEX 8260B	mg,	'L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/31/2014	ND	0.019	92.8	0.0200	6.96	
Toluene*	< 0.001	0.001	10/31/2014	ND	0.020	101	0.0200	3.13	
Ethylbenzene*	< 0.001	0.001	10/31/2014	ND	0.022	108	0.0200	3.95	
Total Xylenes*	<0.003	0.003	10/31/2014	ND	0.071	118	0.0600	2.49	
Total BTEX	<0.006	0.006	10/31/2014	ND					
Surrogate: Dibromofluoromethane	98.1 % 88.3-113		3						
Surrogate: Toluene-d8	98.0 % 90.3-115		5						
Surrogate: 4-Bromofluorobenzene	98.8	% 87.2-11	4						
Chloride, SM4500CI-B	mg,	′L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	172	4.00	10/30/2014	ND	104	104	100	0.00	
Sulfate 375.4	mg,	′L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	e* 165 25.0		10/30/2014	ND	19.8	99.2	20.0	0.303	
TDS 160.1	mg,	′L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	5.00	11/03/2014	ND	542	103	527	2.04		

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Celeg D. Kreine



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/29/2014 Reported: 11/04/2014 Project Name: BD P-26-1 VENT

NOT GIVEN

Project Location: T21S R37E SEC26 P-LEA CTY., NM Sampling Date: 10/24/2014 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene

Sample ID: MONITOR WELL #3 (H403334-03)

Project Number:

BTEX 8260B	mg/	'L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	10/31/2014	ND	0.019	92.8	0.0200	6.96	
Toluene*	< 0.001	0.001	10/31/2014	ND	0.020	101	0.0200	3.13	
Ethylbenzene*	< 0.001	0.001	10/31/2014	ND	0.022	108	0.0200	3.95	
Total Xylenes*	<0.003	0.003	10/31/2014	ND	0.071	118	0.0600	2.49	
Total BTEX	<0.006	0.006	10/31/2014	ND					
Surrogate: Dibromofluoromethane	96.0 % 88.3-113		3						
Surrogate: Toluene-d8	98.8 % 90.3-115		5						
Surrogate: 4-Bromofluorobenzene	99.5	% 87.2-11	4						
Chloride, SM4500CI-B	mg/	′L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	204	4.00	10/30/2014	ND	104	104	100	0.00	
Sulfate 375.4	mg/	′L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	189	25.0	10/30/2014	ND	19.8	99.2	20.0	0.303	
TDS 160.1	mg/L		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	968	5.00	11/03/2014	ND	546	104	527	3.58	

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Celeg D. Kreine



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

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Celeg D. Keine

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- UPS - Bus - Other:

Figure 4

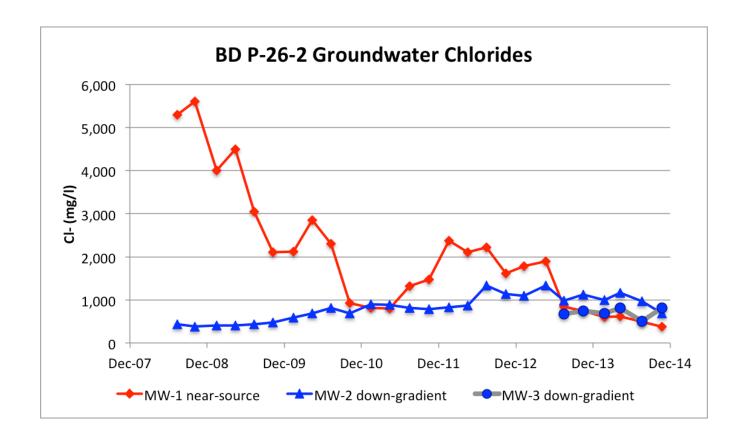


Table 2

BD P-26-2

	Groundwa	ter Chloride C	onc (mg/l)		Groundwat	er Total BTEX	Conc (mg/l)
	MW-1 near-	MW-2 down-	MW-3 down-		MW-1 near-	MW-2 down-	MW-3 down-
<u>Date</u>	source	gradient	<u>gradient</u>	<u>Date</u>	source	gradient	gradient
7/16/08	5,300	432		7/16/08	nd	nd	nd
10/6/08	5,600	384		10/6/08	nd	nd	nd
1/16/09	4,000	400		1/16/09	nd	nd	nd
4/15/09	4,500	412		4/15/09	nd	nd	nd
7/15/09	3,050	432		7/15/09	nd	nd	nd
10/9/09	2,100	480		10/9/09	nd	nd	nd
1/15/10	2,120	590		1/15/10	nd	nd	nd
4/13/10	2,850	690		4/13/10	nd	nd	nd
7/13/10	2,300	820		7/13/10	nd	nd	nd
10/8/10	920	690		10/8/10	nd	nd	nd
1/18/11	820	900		1/18/11	nd	nd	nd
4/14/11	800	890		4/14/11	nd	nd	nd
7/19/11	1,320	810		7/19/11	nd	nd	nd
10/17/11	1,480	780		10/17/11	nd	nd	nd
1/20/12	2,370	830		1/20/12	nd	nd	nd
4/19/12	2,100	870		4/19/12	nd	nd	nd
7/17/12	2,220	1,340		7/17/12	nd	nd	nd
10/15/12	1,620	1,140		10/15/12	nd	nd	nd
1/9/13	1,780	1,090		1/9/13	nd	nd	nd
4/22/13	1,900	1,340		4/22/13	nd	nd	nd
7/18/13	840	980	670	7/18/13	nd	nd	nd
10/18/13	740	1,120	740	10/18/13	nd	nd	nd
1/24/14	600	1,000	680	1/24/14	nd	nd	nd
4/8/14	620	1,160	820	4/8/14	nd	nd	nd
7/22/14	490	970	500	7/22/14	nd	nd	nd
10/24/14	372	690	820	10/24/14	nd	nd	nd



November 04, 2014

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION P-26-2

Enclosed are the results of analyses for samples received by the laboratory on 10/29/14 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/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. 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

10/24/2014

Cool & Intact

Celey D. Keene

Water



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Sampling Date:

Received: 10/29/2014
Reported: 11/04/2014
Project Name: BD JUNCTION P-26-2
Project Number: NOT GIVEN

11/04/2014Sampling Type:BD JUNCTION P-26-2Sampling Condition:NOT GIVENSample Received By:

Project Location: T21S R37E SEC26 P-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H403333-01)

BTEX 8260B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	10/31/2014	ND	0.019	92.8	0.0200	6.96	
Toluene*	< 0.001	0.001	10/31/2014	ND	0.020	101	0.0200	3.13	
Ethylbenzene*	< 0.001	0.001	10/31/2014	ND	0.022	108	0.0200	3.95	
Total Xylenes*	<0.003	0.003	10/31/2014	ND	0.071	118	0.0600	2.49	
Total BTEX	<0.006	0.006	10/31/2014	ND					
Surrogate: Dibromofluoromethane	97.4	97.4 % 88.3-113							
Surrogate: Toluene-d8	97.1	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	95.4	% 87.2-11	4						
Chloride, SM4500CI-B	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	372	4.00	10/30/2014	ND	104	104	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	188	83.3	10/30/2014	ND	19.8	99.2	20.0	0.303	
TDS 160.1	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1260	5.00	11/03/2014	ND	542	103	527	2.04	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/29/2014
Reported: 11/04/2014
Project Name: BD JUNCTION P-26-2

BD JUNCTION P-26-2 NOT GIVEN

Project Number: NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition:

Sample Received By:

10/24/2014 Water

Cool & Intact Celey D. Keene

Project Location: T21S R37E SEC26 P-LEA CTY., NM

Sample ID: MONITOR WELL #2 (H403333-02)

BTEX 8260B	mg	<u>/L</u>	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	10/31/2014	ND	0.019	92.8	0.0200	6.96	
Toluene*	< 0.001	0.001	10/31/2014	ND	0.020	101	0.0200	3.13	
Ethylbenzene*	< 0.001	0.001	10/31/2014	ND	0.022	108	0.0200	3.95	
Total Xylenes*	<0.003	0.003	10/31/2014	ND	0.071	118	0.0600	2.49	
Total BTEX	<0.006	0.006	10/31/2014	ND					
Surrogate: Dibromofluoromethane	98.3	% 88.3-11	3						
Surrogate: Toluene-d8	99.0	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	98.7	% 87.2-11	4						
Chloride, SM4500CI-B	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	690	4.00	10/30/2014	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	196	50.0	10/30/2014	ND	19.8	99.2	20.0	0.303	
TDS 160.1	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1890	5.00	11/03/2014	ND	542	103	527	2.04	

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Celey D. Keine



Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/29/2014 Reported: 11/04/2014 Project Name: BD JUNCTION P-26-2

Project Number: NOT GIVEN

Project Location: T21S R37E SEC26 P-LEA CTY., NM Sampling Date: 10/24/2014 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene

Sample ID: MONITOR WELL #3 (H403333-03)

BTEX 8260B	mg	/L	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	10/31/2014	ND	0.019	92.8	0.0200	6.96	
Toluene*	< 0.001	0.001	10/31/2014	ND	0.020	101	0.0200	3.13	
Ethylbenzene*	< 0.001	0.001	10/31/2014	ND	0.022	108	0.0200	3.95	
Total Xylenes*	<0.003	0.003	10/31/2014	ND	0.071	118	0.0600	2.49	
Total BTEX	<0.006	0.006	10/31/2014	ND					
Surrogate: Dibromofluoromethane	96.9	96.9 % 88.3-113							
Surrogate: Toluene-d8	99.0 % 90.3-115		5						
Surrogate: 4-Bromofluorobenzene	95.6	% 87.2-11	4						
Chloride, SM4500CI-B	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	820	4.00	10/30/2014	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	224 50.0		10/30/2014	ND	19.8	99.2	20.0	0.303	
TDS 160.1	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS* 2190 5.0			11/03/2014	ND	542	103	527	2.04	

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Celeg D. Kreine



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

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