#### Texerra LLC

20055 Laredo Lane Monument, CO 80132 Tel: 719-339-6791 E-mail: <a href="mailto:lpg@texerra.com">lpg@texerra.com</a>

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: OCD Case Number: 1R427-87

Rice Operating Company – EME SWD System H-20 SWD (UL H, Sec 20, T20S, R37E)

Sent by E-mail

#### Dr. Oberding:

This letter summarizes progress made over the past year pursuant to the NMOCD approved Corrective Action Plan for this site. The site is an active SWD produced water disposal facility operated by Rice Operating Company (ROC) in the EME field, located approximately 4 miles south of Monument, New Mexico (Appendix, Figure 1).

Over the course of 2014 we continued to monitor up and down-gradient monitor wells (Appendix, Figure 2) for chlorides and petroleum hydrocarbons (BTEX). In brief:

- 1. Groundwater chloride concentrations (Appendix, Figure 3 & Table 1) in the up-gradient monitor well (MW-2) declined slightly from the previous year, dropping to an average of 780 mg/l in 2014 from 908 mg/l in 2013. Year average groundwater chloride concentrations in the at-source monitor well (MW-1) dropped from 1,223 mg/l in 2013 to 1,135 mg/l in 2014. Groundwater chlorides in the down-gradient monitor well (MW-3) dropped slightly from an average of 1,288 mg/l in 2013 to 1,230 mg/l in 2014.
- 2. Groundwater benzene concentrations (Appendix, Figure 4 & Table 2) dropped noticeably in the at-source monitor well (MW-1) from an average of 0.065 mg/l in 2013 to 0.029 mg/l in 2014. Benzene and total BTEX concentrations continued to measure below detectable limits in the other monitoring wells through 2014.

During the course of 2015, we plan to continue the operation of the solar-powered bio-sparge system and to continue the quarterly monitoring of groundwater for chlorides and BTEX.

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

#### Rice Operating Company: EME H-20 SWD Annual Report

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

Sincerely,

L. Peter Galusky, Jr. P.E.

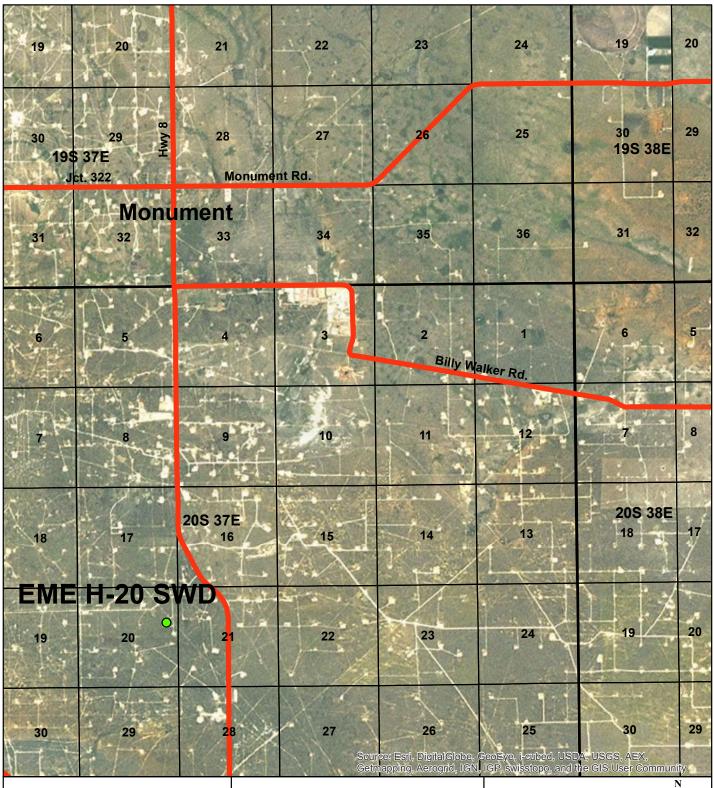
NM Prof. Engineer No. 22561

Copy: Rice Operating Company

Attachment: Appendix

Texerra 2

# Site Location





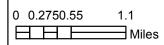
### EME H-20 SWD

LEGALS: UL/H sec. 20 T-20-S R-37-E

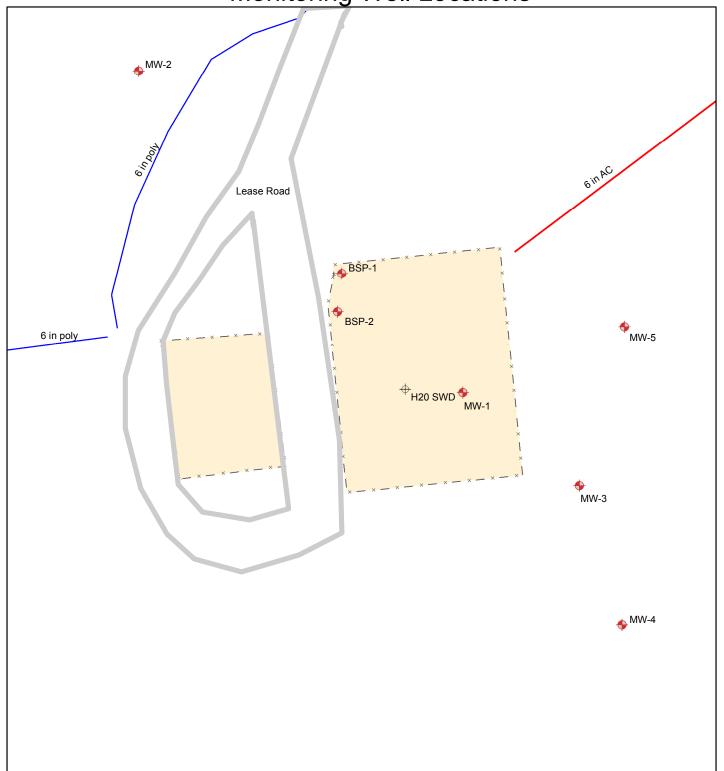
NMOCD Case #: 1R427-87

# Figure 1





Drawing date: 3/18/14 Drafted by: L. Flores **Monitoring Well Locations** 





# EME H-20 SWD

LEGALS: UL/H sec.20 T-20-S R-37-E

NMOCD Case #: 1R427-87

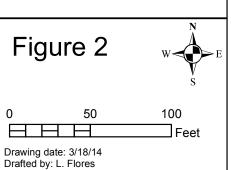


Figure 3

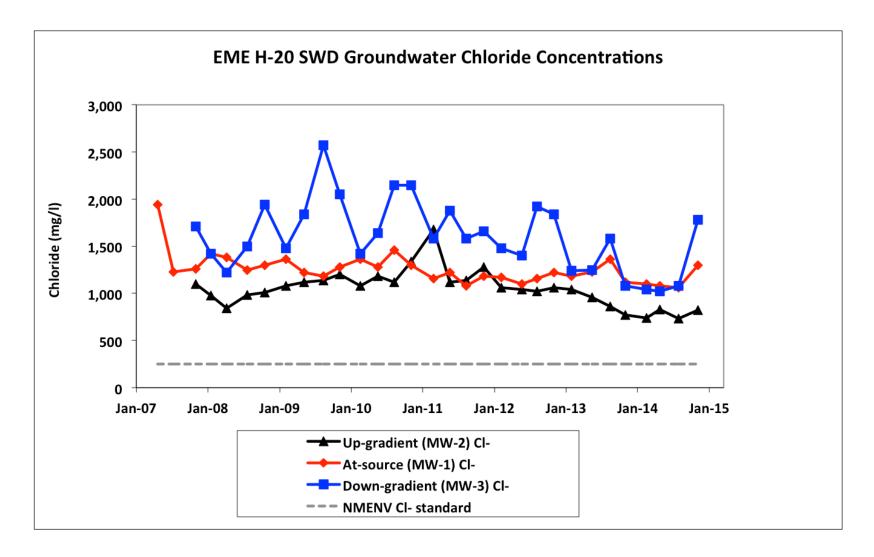


Table 1

EME H-20 SWD

#### **Groundwater Chloride Concentrations**

at-source up-gradient down-gradient

	at 000.00	ap gradioni	down gradio			NMENV
Data	<u>MW-1</u>	<u>MW-2</u>	MW-3	MW-4	MW-5	Standard
<u>Date</u> 4/23/07	1,939	<u> </u>	10100-3	<u> </u>	10100-5	250
7/12/07	1,230					250
11/1/07	1,230	1,100	1,710			250
1/18/08	1,420	980	1,710			250
4/9/08	1,380	840 984	1,220	1.060	1 100	250
7/21/08	1,250		1,500	1,060	1,120	250 250
10/20/08	1,300		1,940	1,120	1,220	250
2/5/09	1,360	1,080	1,480	1,200	1,180	250
5/8/09	1,220	1,120	1,840	1,340	1,320	250
8/14/09	1,180	1,140	2,570	1,240	1,240	250
11/4/09	1,280	1,200	2,050	1,200	1,260	250
2/17/10	1,360	1,080	1,420	1,380	1,260	250
5/19/10	1,280	1,180	1,640	1,340	1,340	250
8/11/10	1,460	1,120	2,150	1,380	1,400	250
11/4/10	1,300	1,340	2,150	1,280	1,560	250
2/26/11	1,160	1,680	1,580	1,440	1,600	250
5/20/11	1,220	1,120	1,880	1,500	1,680	250
8/11/11	1,080	1,140	1,580	1,400	1,600	250
11/9/11	1,180	1,280	1,660	1,480	1,600	250
2/8/12	1,170	1,060	1,480	1,500	1,560	250
5/22/12	1,100	1,040	1,400	1,360	1,480	250
8/7/12	1,160	1,020	1,920	1,360	1,320	250
10/31/12	1,220		1,840	1,400	1,240	250
1/30/13	1,180		1,240	1,220	1,140	250
5/14/13	1,230	960	1,250	1,340	1,200	250
8/14/13	1,360	860	1,580	1,400	1,070	250
10/31/13	1,120		1,080	1,180	1,000	250
2/18/14	1,100	740	1,040	1,200	1,000	250
4/24/14	1,080	830	1,020	1,240	1,060	250
7/31/14	1,060		1,080	1,220	1,040	250
11/6/14	1,300	820	1,780	920	1,100	250
2011 avg	1,160	1,305	1,675	1,455	1,620	250
2012 avg	1,163	1,045	1,660	1,405	1,400	250
2013 avg	1,223	908	1,288	1,285	1,103	250
2014 avg	1,135	780	1,230	1,145	1,050	250

Figure 4

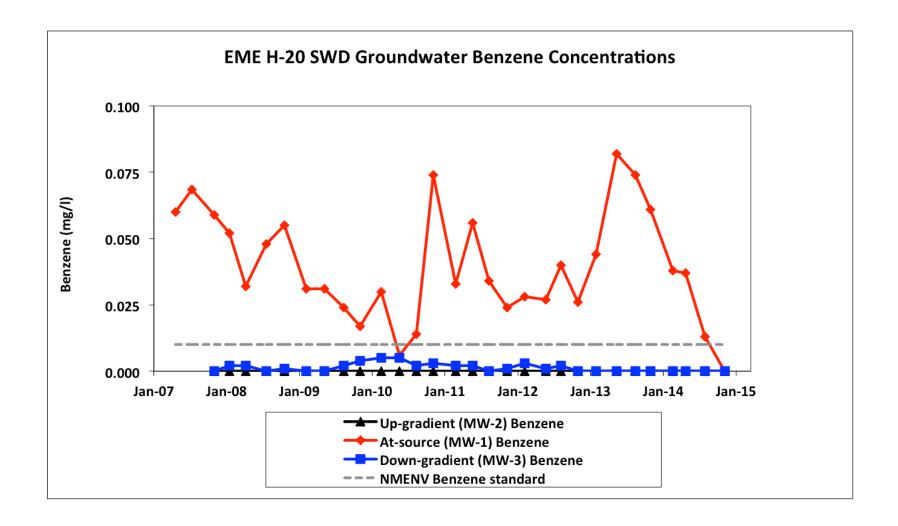


Table 2

EME H-20 SWD

Groundwater Benzene Concentrations

<u>Date</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	NMENV Standard
4/23/07	0.060					0.01
7/12/07	0.068					0.01
11/1/07	0.059	<0.002	<0.002			0.01
1/18/08	0.052	<0.001	0.002			0.01
4/9/08	0.032	<0.001	0.002			0.01
7/21/08	0.048	<0.002	<0.002	<0.002	<0.002	0.01
10/20/08	0.055	<0.001	0.001	<0.001	<0.001	0.01
2/5/09	0.031	<0.001	<0.001	<0.001	<0.001	0.01
5/8/09	0.031	<0.001	<0.001	<0.001	<0.001	0.01
8/14/09	0.024	<0.001	0.002	<0.001	<0.001	0.01
11/4/09	0.017	<0.001	0.004	0.001	<0.001	0.01
2/17/10	0.030	<0.001	0.005	<0.001	<0.001	0.01
5/19/10	0.006	<0.001	0.005	<0.001	<0.001	0.01
8/11/10	0.014	<0.001	0.002	<0.001	<0.001	0.01
11/4/10	0.074	<0.001	0.003	0.001	0.082	0.01
2/26/11	0.033	<0.001	0.002	<0.001	<0.001	0.01
5/20/11	0.056	<0.001	0.002	<0.001	<0.001	0.01
8/11/11	0.034	<0.001	<0.001	0.004	<0.001	0.01
11/9/11	0.024	<0.001	0.001	0.002	<0.001	0.01
2/8/12	0.028	<0.001	0.003	0.002	<0.001	0.01
5/22/12	0.027	<0.001	0.001	<0.001	<0.001	0.01
8/7/12	0.040	<0.001	0.002	0.001	<0.001	0.01
10/31/12	0.026	<0.001	<0.001	<0.001	<0.001	0.01
1/30/13	0.044	<0.001	<0.001	<0.001	<0.001	0.01
5/14/13	0.082	<0.001	<0.001	<0.001	<0.001	0.01
8/14/13	0.074	<0.001	<0.001	<0.001	<0.001	0.01
10/31/13	0.061	<0.001	<0.001	<0.001	<0.001	0.01
2/18/14	0.038	<0.001	<0.001	<0.001	<0.001	0.01
4/24/14	0.037	<0.001	<0.001	<0.001	<0.001	0.01
7/31/14	0.013	<0.001	<0.001	<0.001	<0.001	0.01
11/6/14	<0.001	<0.001	<0.001	<0.001	<0.001	0.01
2011 avg	0.037					0.01
2011 avg 2012 avg	0.037					0.01
2012 avg 2013 avg	0.030					0.01
2013 avg 2014 avg	0.003					0.01
2014 avg	0.029					



November 18, 2014

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME JUNCTION H-20

Enclosed are the results of analyses for samples received by the laboratory on 11/11/14 16:57.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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: 11/11/2014
Reported: 11/18/2014
Project Name: EME JUNCTION H-20
Project Number: NONE GIVEN

NONE GIVEN
T20S-R37E-SEC20 H-LEA CTY, NM

Sampling Date: Sampling Type: Sampling Condition: 11/06/2014 Water Cool & Intact

Sample Received By: Amanda Ponce

Sample ID: MONITOR WELL #1 (H403467-01)

Project Location:

BTEX 8260B	mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	11/14/2014	ND	0.021	105	0.0200	4.07	
Toluene*	< 0.001	0.001	11/14/2014	ND	0.021	107	0.0200	4.74	
Ethylbenzene*	< 0.001	0.001	11/14/2014	ND	0.021	106	0.0200	6.40	
Total Xylenes*	< 0.003	0.003	11/14/2014	ND	0.064	107	0.0600	4.40	
Total BTEX	<0.006	0.006	11/14/2014	ND					
Surrogate: Dibromofluoromethane	109	% 88.3-11	3						
Surrogate: Toluene-d8	102	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	97.8	% 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*	1300	4.00	11/12/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	983	125	11/14/2014	ND	16.9	84.6	20.0	7.62	
TDS 160.1	mg	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	4340	5.00	11/14/2014	ND	512	97.2	527	1.26	

Cardinal Laboratories \*=Accredited Analyte

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Fax To: (575) 397-1471

Received: 11/11/2014
Reported: 11/18/2014
Project Name: EME JUNCTION H-20

Project Name: EME JUNCTION H-2
Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CTY, NM

Sampling Date: 11/06/2014 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

#### Sample ID: MONITOR WELL #2 (H403467-02)

BTEX 8260B	mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/14/2014	ND	0.021	105	0.0200	4.07	
Toluene*	<0.001	0.001	11/14/2014	ND	0.021	107	0.0200	4.74	
Ethylbenzene*	<0.001	0.001	11/14/2014	ND	0.021	106	0.0200	6.40	
Total Xylenes*	<0.003	0.003	11/14/2014	ND	0.064	107	0.0600	4.40	
Total BTEX	<0.006	0.006	11/14/2014	ND					
Surrogate: Dibromofluoromethane	109	% 88.3-11	3						
Surrogate: Toluene-d8	99.9	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	98.7	% 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*	820	4.00	11/12/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	539	83.3	11/14/2014	ND	16.9	84.6	20.0	7.62	
TDS 160.1	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2910	5.00	11/14/2014	ND	512	97.2	527	1.26	

Cardinal Laboratories \*=Accredited Analyte

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

Fax To: (575) 397-1471

Received: 11/11/2014
Reported: 11/18/2014
Project Name: EME JUNCTION H-20

Project Number: EME JONE TION

NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CTY, NM

Sampling Date: 11/06/2014 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

#### Sample ID: MONITOR WELL #3 (H403467-03)

BTEX 8260B	mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/14/2014	ND	0.021	105	0.0200	4.07	
Toluene*	<0.001	0.001	11/14/2014	ND	0.021	107	0.0200	4.74	
Ethylbenzene*	< 0.001	0.001	11/14/2014	ND	0.021	106	0.0200	6.40	
Total Xylenes*	<0.003	0.003	11/14/2014	ND	0.064	107	0.0600	4.40	
Total BTEX	<0.006	0.006	11/14/2014	ND					
Surrogate: Dibromofluoromethane	104	% 88.3-11	3						
Surrogate: Toluene-d8	96.2	% 90.3-11	5						
Surrogate: 4-Bromofluorobenzene	97.8	% 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*	1780	4.00	11/12/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	889	250	11/14/2014	ND	16.9	84.6	20.0	7.62	
TDS 160.1	mg,	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	4910	5.00	11/14/2014	ND	512	97.2	527	1.26	

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

Fax To: (575) 397-1471

Received: 11/11/2014
Reported: 11/18/2014
Project Name: EME JUNCTION H-20

NONE GIVEN

Reporting Limit

5.00

Result

3410

Project Location: T20S-R37E-SEC20 H-LEA CTY, NM

Sampling Date:
Sampling Type:
Sampling Condition:

Sample Received By:

11/06/2014 Water

Cool & Intact Amanda Ponce

Sample ID: MONITOR WELL #4 (H403467-04)

Project Number:

BTEX 8260B	mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/14/2014	ND	0.021	105	0.0200	4.07	
Toluene*	<0.001	0.001	11/14/2014	ND	0.021	107	0.0200	4.74	
Ethylbenzene*	<0.001	0.001	11/14/2014	ND	0.021	106	0.0200	6.40	
Total Xylenes*	<0.003	0.003	11/14/2014	ND	0.064	107	0.0600	4.40	
Total BTEX	<0.006	0.006	11/14/2014	ND					
Surrogate: Dibromofluoromethane	108 9	% 88.3-11	3						
Surrogate: Toluene-d8	urrogate: Toluene-d8 98.8 %		5						
Surrogate: 4-Bromofluorobenzene	96.7	% 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*	920	4.00	11/12/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg/	mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	501	83.3	11/14/2014	ND	16.9	84.6	20.0	7.62	
TDS 160.1	mg/	'L	Analyzed By: AP						

Cardinal Laboratories \*=Accredited Analyte

Analyzed

11/14/2014

Method Blank

ND

BS

512

% Recovery

97.2

True Value QC

527

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Celey D. Keens

Analyte

TDS\*

Celey D. Keene, Lab Director/Quality Manager

Qualifier

1.26



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

Fax To: (575) 397-1471

Received: 11/11/2014
Reported: 11/18/2014
Project Name: EME JUNCTION H-20

Project Name: EME JUNCTION I Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CTY, NM

Sampling Date: 11/06/2014 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

#### Sample ID: MONITOR WELL #5 (H403467-05)

Analyte Benzene* Toluene*	Result <0.001 <0.001 <0.001	Reporting Limit 0.001 0.001	Analyzed 11/14/2014	Method Blank	BS 0.021	% Recovery	True Value QC	RPD	Qualifier
	<0.001			ND	0.021				
Toluene*		0.001	44/44/2044		0.021	105	0.0200	4.07	
	< 0.001		11/14/2014	ND	0.021	107	0.0200	4.74	
Ethylbenzene*		0.001	11/14/2014	ND	0.021	106	0.0200	6.40	
Total Xylenes*	<0.003	0.003	11/14/2014	ND	0.064	107	0.0600	4.40	
Total BTEX	<0.006	0.006	11/14/2014	ND					
Surrogate: Dibromofluoromethane	106 9	% 88.3-11.	3						
Surrogate: Toluene-d8	97.5	% 90.3-11.	5						
Surrogate: 4-Bromofluorobenzene	93.9	% 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*	1100	4.00	11/12/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	549	83.3	11/14/2014	ND	16.9	84.6	20.0	7.62	
TDS 160.1	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3500	5.00	11/14/2014	ND	512	97.2	527	1.26	

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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