RICE Operating Company

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

February 25, 2021

Bradford Billings

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

RE: Termination Request Rice Operating Company – EME SWD System EME Jct. G-18 (1R427-162): UL/G, Sec. 18, T19S, R37E

Mr. Billings:

ROC is the service provider (agent) for the EME 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 miles northwest of Monument, New Mexico at UL/G, Sec. 18, T19S, R37E as shown on the Geographic Location Map and Area Map. Monitor well sampling at the site indicates that groundwater has been encountered at approximately 54 ft below ground surface (bgs).

In 2004, ROC initiated work on the former EME G-18 junction box. The site was delineated using a backhoe to collect soil samples at regular intervals. The excavation reached dimensions of 20x18x12-ft bgs. Composite samples were sent to a commercial laboratory for chloride and TPH analyses, resulting in elevated concentration of chloride in the bottom composite, elevated concentrations of TPH and BTEX. A 1-ft thick clay layer was installed from 6-5 ft bgs, and a compaction test was performed on April 16th, 2004. The site was backfilled, the area was contoured to the surrounding area and an identification plate was placed on the site to mark its location for future environmental considerations. A new junction box was not required at the site.

Between June 2nd, 2004 and December 6th, 2010, fives soil bores and three monitor wells were drilled at and surrounding the former junction box. An ICP Report and CAP was then submitted to the NMOCD, which detailed the findings of the soil borings. The report requested a 6-month source removal and test pumping program and that MW-1 be plugged and replaced with a 4 inch well. In addition, a 44x49-ft, 20-mil reinforced liner would be installed at 4-5 ft bgs. NMOCD approved the plan on July 18th, 2011.

Beginning on November 23rd, 2011, the site was excavated to 44x49x5-ft deep. The excavation was padded with six inches of the imported sand and the liner was properly seated at approximately 4.5 ft bgs. The top of the liner was padded with six inches of imported sand and the excavation was backfilled and contoured to the surrounding location. The 20-mil reinforced liner will inhibit the further migration of chloride through the vadose zone into groundwater. The site was seeded with a blend of native vegetation and a silt net fence was placed around the area to maintain seed integrity. On October 15th, 2012, ROC submitted a Soil Closure Request to NMOCD that detailed these activities and asked for 'Soil Closure' or similar closure status. NMOCD approved the soil closure on the same day.

On October 26th, 2011, MW-1 was plugged and abandoned with a 1-3% bentonite/concrete slurry and capped with three feet of concrete. MW-1 was then replaced with a 4 inch well (MW-1R) which was installed 9 ft southeast of the former MW-1.

On April 17th, 2012, ROC submitted the Vadose Zone Remediation and Termination Request to NMOCD. ROC had completed the vadose zone remediation approved by NMOCD in the CAP and plugged and replaced MW-1 with MW-1R. A 6-month source removal and test pumping program from MW-1R that was described in the CAP was deemed no longer necessary because two quarters of monitor well sampling data showed chloride concentrations below WQCC standards. Therefore, ROC requested 'remediation termination' status of regulatory file. On June 5th, 2012, NMOCD responded with a request for two more quarters of monitor well sampling data from MW-1R prior to terminating the remediation plan. The two additional sampling events of MW-1R occurred on November 1st, 2012 resulting in a chloride value of 570 mg/kg and on February 8th, 2013 also resulting in a chloride value of 570 mg/kg. Given that these two sampling events show chlorides outside WQCC standards, it was recommended ROC continue with a 6-month source removal and test pumping program from MW-1R that was described in the CAP. This path forward was approved by NMOCD on July 2nd, 2013.

Groundwater recovery began on September 16th, 2013 from MW-1R and continued through November 2015. During that time, approximately 7,263 barrels of groundwater was removed which equates to approximately 277 kg of chloride, based on a chloride concentration of 240 mg/L. Removed groundwater was utilized for a purposeful use. Since groundwater recovery began, chloride and TDS concentrations in MW-1R have decreased to 250 mg/L and 1,000 mg/L, respectively and have remained below WQCC standards for eight consecutive quarters. Concentrations in MW-2 and MW-3 have remained below WQCC standards since installation.

Recommendations

Based on the low concentrations observed in all three monitoring wells, soil closure received from NMOCD, and recovered vegetation, ROC respectfully requests remediation termination or similar closure status for this site. Once NMOCD grants termination, the three monitoring wells (MW-1R, MW-2, and MW-3) will be plugged and abandoned using Portland slurry and a three-foot cap of concrete at the surface. ROC acknowledges they have met the requirements of 19.15.29 NMAC and a final C-141 is attached.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 or Edward Hansen at (505) 920-4965 at if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

Katil Davis

Katie Davis Environmental Manager RICE Operating Company

Appendix

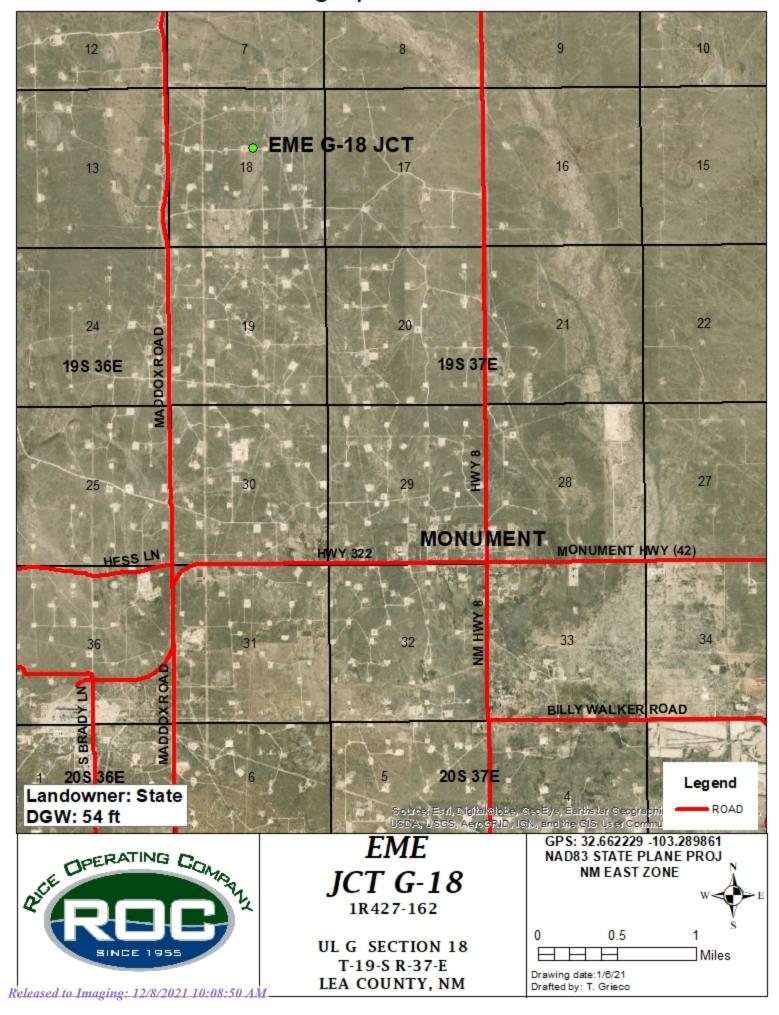
Figures

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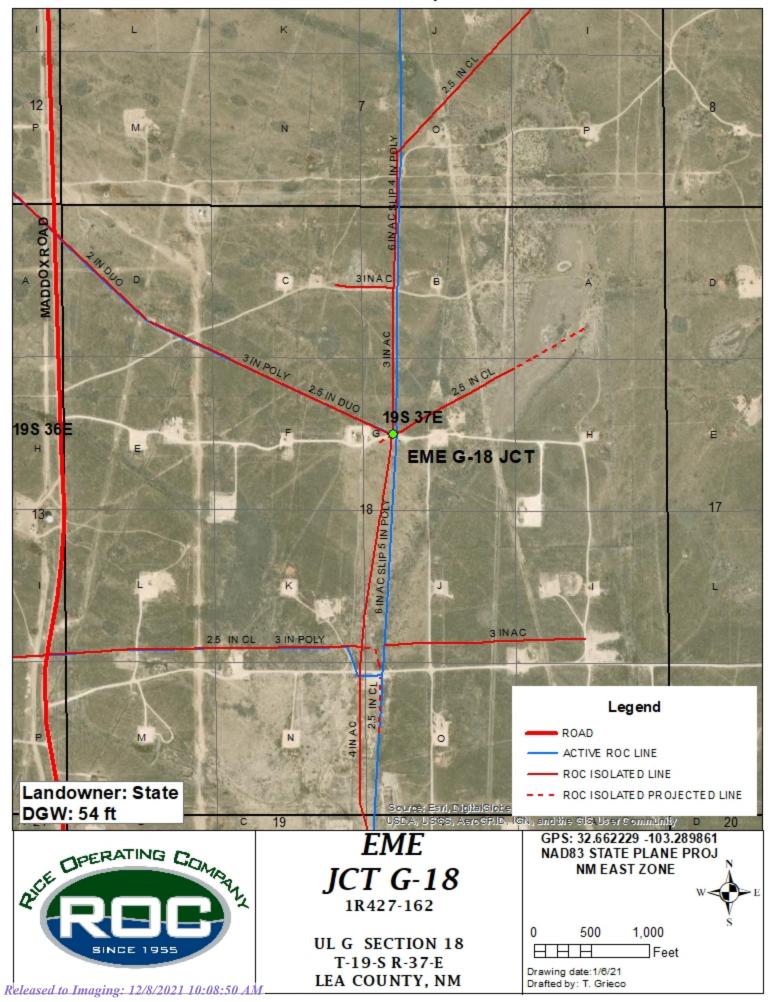
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Geographic Location

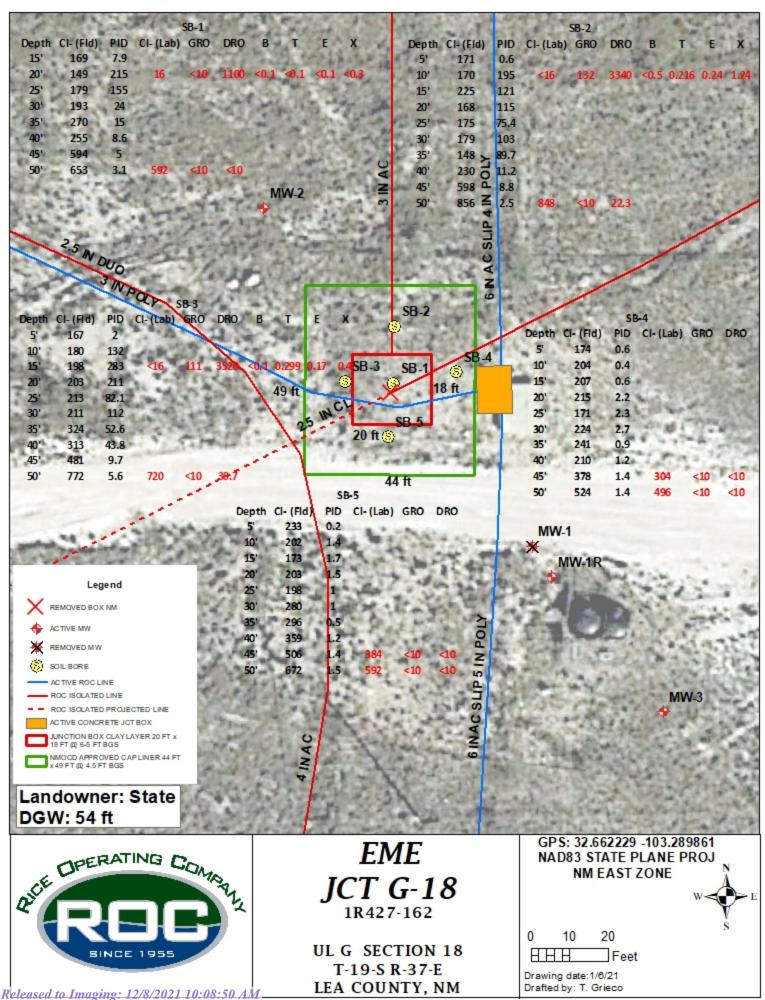
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Area Map



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Monitoring Well Sampling

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MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	53.51	68.28	2.4	8	12/28/2010	630	1,810	<0.001	<0.001	<0.001	, <0.003	308	Clear No odor
1	53.71	68.28	2.3	8	3/4/2011	470	1,670	<0.001	<0.001	<0.001	<0.003	282	Clear No odor
1	54.11	68.28	2.3	8	5/31/2011	550	1,560	<0.001	<0.001	<0.001	<0.003	217	Clear No odor
1	54.33	68.28	2.2	8	8/29/2011	550	1,420	<0.001	<0.001	<0.001	<0.003	174	Clear No odor
1R	54.4	100.15	29.7	100	11/14/2011	200	768	<0.001	<0.001	<0.001	<0.003	98.2	Clear No odor - replaced with 4 inch
1R	54.64	100.15	29.6	100	2/14/2012	192	713	<0.001	<0.001	<0.001	<0.003	78.1	Clear No odor
1R	54.83	100.15	29.5	100	5/23/2012	360	1,060	< 0.001	< 0.001	<0.001	<0.003	99.4	Clear No odor
1R	54.92	100.15	29.4	100	7/13/2012	308	1,060	< 0.001	< 0.001	<0.001	<0.003	117	Clear No odor
1R	55.17	100.15	29.2	100	11/1/2012	570	1,750	<0.001	<0.001	<0.001	<0.003	209	Clear No odor
1R	55.28	100.15	29.2	100	2/8/2013	570	1,660	<0.001	<0.001	<0.001	<0.003	243	Clear No odor
1R	55.47	100.15	29	100	5/22/2013	516	1,560	<0.001	<0.001	<0.001	<0.003	213	Clear No odor
1R	55.26	100.15	29.2	100	9/3/2013	850	2,270	<0.001	<0.001	<0.001	<0.003	531	Clear No odor
1R	XXX	100.15	XXX	running	11/11/2013	236	770	<0.001	<0.001	<0.001	<0.003	77.8	Clear No odor
1R	XXX	100.15	XXX	100	3/3/2014	490	1,900	<0.001	<0.001	<0.001	<0.003	381	Clear No odor
1R	XXX	100.15	XXX	running	5/28/2014	256	830	<0.001	<0.001	<0.001	<0.003	74	Clear No odor
1R	XXX	100.15	XXX	running	8/15/2014	268	830	<0.001	<0.001	<0.001	<0.003	76.1	Clear No odor
1R	XXX	100.15	XXX	running	11/19/2014	96	704	<0.001	<0.001	<0.001	<0.003	60.6	Clear No odor
1R	XXX	100.15	XXX	100	2/20/2015	328	1,090	<0.001	<0.001	<0.001	<0.003	136	Clear No odor
1R	XXX	100.15	XXX	100	5/28/2015	208	826	<0.001	<0.001	<0.001	<0.003	87.4	Clear No odor
1R	XXX	100.15	XXX	100	8/14/2015	196	736	<0.001	<0.001	<0.001	<0.003	51.6	Clear No odor
1R	XXX	100.15	XXX	running	11/9/2015	240	774	<0.001	<0.001	<0.001	<0.003	78	Clear No odor
1R	XXX	100.15	XXX	100	2/22/2016	140	880	<0.001	<0.001	<0.001	<0.003	112	Clear No odor
1R	XXX	100.15	XXX	100	5/11/2016	60	802	<0.001	<0.001	<0.001	<0.003	183	Clear No odor
1R	XXX	100.15	XXX	100	9/9/2016	348	1,190	<0.001	<0.001	<0.001	<0.003	134	Clear No odor
1R	XXX	100.15	XXX	100	11/9/2016	52	964	<0.001	<0.001	<0.001	<0.003	337	Clear No odor
1R	XXX	100.15	XXX	100	2/17/2017	104	982	<0.001	<0.001	<0.001	<0.003	273	Clear No odor
1R	XXX	100.15	XXX	100	5/22/2017	76	766	<0.001	<0.001	<0.001	<0.003	77	Clear No odor
1R	XXX	100.15	XXX	100	9/6/2017	80	1,280	<0.001	<0.001	<0.001	<0.003	505	Clear No odor

MW	Depth to	Total	Well	Volume	I Sample Date I CL I TDS I Benzene I Toluene I ' I I I I	Sulfate	Comments						
	Water	Depth	Volume	Purged	Sample Date	U	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	Comments
1R	XXX	100-15	XXX	100	11/28/2017	232	938	<0.001	<0.001	<0.001	<0.003	114	Clear No odor
1R	XXX	100-15	XXX	100	2/26/2018	164	1,110	<0.001	<0.001	<0.001	<0.003	261	Clear No odor
1R	XXX	100-15	XXX	100	5/14/2018	124	1,000	<0.001	<0.001	<0.001	<0.003	221	Clear No odor
1R	XXX	100-15	XXX	100	8/31/2018	416	1,430	<0.001	<0.001	<0.001	<0.003	151	Clear No odor
1R	XXX	100-15	XXX	100	11/9/2018	220	1,060	<0.001	<0.001	<0.001	<0.003	135	Clear No odor
1R	XXX	100.15	XXX	100	2/28/2019	140	605	<0.001	<0.001	<0.001	<0.003	85	Clear No odor
1R	XXX	100.15	XXX	100	5/23/2019	136	940	<0.001	<0.001	<0.001	<0.003	136	Clear No odor
1R	XXX	100.15	XXX	100	8/27/2019	84	886	<0.001	<0.001	<0.001	<0.003	165	Clear No odor
1R	XXX	100.15	XXX	100	11/14/2019	128	867	<0.001	<0.001	<0.001	<0.003	91	Clear No odor
1R	XXX	100.15	XXX	100	3/3/2020	140	912	<0.001	<0.001	<0.001	<0.003	111	Clear No odor
1R	XXX	100.15	XXX	100	5/29/2020	136	901	XXX	XXX	XXX	XXX	115	Clear No odor
1R	XXX	100.15	XXX	100	9/9/2020	132	947	XXX	XXX	XXX	XXX	132	Clear No odor
1R	XXX	100.15	XXX	100	10/30/2020	160	964	XXX	XXX	XXX	XXX	112	Clear No odor
MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	Sample Date	CI	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	comments
2	53.58	70.22	2.7	10	3/4/2011	32	715	<0.001	<0.001	<0.001	<0.003	191	Clear No odor
2	53.98	70.22	2.6	10	5/31/2011	44	821	<0.001	<0.001	<0.001	<0.003	243	Clear No odor
2	54.21	70.22	2.6	10	8/29/2011	32	643	<0.001	<0.001	<0.001	<0.003	213	Clear No odor
2	54.39	70.22	2.5	10	11/14/2011	28	744	<0.001	<0.001	<0.001	<0.003	184	Clear No odor
2	54.39	70.22	2.5	10	2/14/2012	24	818	<0.001	<0.001	<0.001	<0.003	209	Clear No odor
2	54.82	70.22	2.5	10	5/23/2012	32	815	<0.001	<0.001	<0.001	<0.003	203	Clear No odor
2	54.91	70.22	2.4	10	7/13/2012	36	821	<0.001	<0.001	<0.001	<0.003	214	Clear No odor
2	55.15	70.22	2.4	10	11/1/2012	72	867	<0.001	<0.001	<0.001	<0.003	198	Clear No odor
2	55.32	70.22	2.4	10	2/8/2013	28	748	<0.001	<0.001	<0.001	<0.003	177	Clear No odor
2	55.43	70.22	2.4	10	5/22/2013	40	783	<0.001	<0.001	<0.001	<0.003	206	Clear No odor
2	55.28	70.22	2.4	10	9/3/2013	28	686	<0.001	<0.001	<0.001	<0.003	131	Clear No odor
2	55.54	70.22	2.3	10	11/11/2013	28	721	<0.001	<0.001	<0.001	<0.003	155	Clear No odor
2	55.57	70.22	2.3	10	3/3/2014	40	704	<0.001	<0.001	<0.001	<0.003	166	Clear No odor

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
2	Water	Depth 70.22	Volume	Purged	Г / <u>28 /201</u> 4	32	766	<0.001	<0.001	Benzene	Xylenes	150	Clear No. adar
2	55.74		2.3	10	5/28/2014			<0.001	<0.001	<0.001	< 0.003	153	Clear No odor
2	55.83	70.22	2.3	10	8/15/2014	20	748	< 0.001	< 0.001	<0.001	< 0.003	183	Clear No odor
2	54.44	70.22	2.5	10	11/19/2014	80	682	< 0.001	< 0.001	< 0.001	< 0.003	55.3	Clear No odor
2	54.14	70.22	2.6	10	2/20/2015	32	866	< 0.001	< 0.001	< 0.001	< 0.003	183	Clear No odor
2	54.52	70.22	2.5	10	5/28/2015	28	942	< 0.001	<0.001	<0.001	< 0.003	244	Clear No odor
2	54.53	70.22	2.5	10	8/14/2015	44	848	<0.001	<0.001	<0.001	<0.003	190	Clear No odor
2	54.8	70.22	2.47	10	11/9/2015	20	742	<0.001	<0.001	<0.001	<0.003	186	Clear No odor
2	54.63	70.22	2.5	10	2/22/2016	20	788	<0.001	<0.001	<0.001	<0.003	176	Clear No odor
2	54.52	70.22	2.5	10	5/11/2016	32	734	<0.001	<0.001	<0.001	<0.003	184	Clear No odor
2	54.82	70.22	2.6	10	9/9/2016	20	874	<0.001	<0.001	<0.001	< 0.003	225	Clear No odor
2	54.83	70.22	2.6	10	11/9/2016	24	696	<0.001	<0.001	<0.001	<0.003	192	Clear No odor
2	53.75	70.22	2.6	10	2/17/2017	88	752	<0.001	<0.001	<0.001	<0.003	78	Clear No odor
2	53.56	70.22	2.7	10	5/22/2017	92	696	<0.001	<0.001	<0.001	<0.003	79	Clear No odor
2	54.8	70.22	2.7	10	9/6/2017	32	860	<0.001	<0.001	<0.001	<0.003	202	Clear No odor
2	54.78	70.22	2.7	10	11/28/2017	56	864	<0.001	<0.001	<0.001	<0.003	229	Clear No odor
2	54.76	70.22	2.5	10	2/26/2018	32	472	< 0.001	< 0.001	< 0.001	< 0.003	188	Clear No odor
2	54.73	70.22	2.5	10	5/14/2008	28	706	< 0.001	< 0.001	< 0.001	< 0.003	185	Clear No odor
2	54.98	70.22	2.4	10	8/31/2018	36	668	< 0.001	<0.001	< 0.001	< 0.003	147	Clear No odor
2	54.2	70.22	2.6	10	11/9/2018	28	606	< 0.001	<0.001	<0.001	< 0.003	232	Clear No odor
2	54.19	70.22	2.6	10	2/28/2019	40	422	<0.001	<0.001	<0.001	< 0.003	168	Clear No odor
2	54.16	70.22	2.6	10	5/23/2019	40	704	<0.001	<0.001	<0.001	< 0.003	167	Clear No odor
2	55.38	70.22	2.4	10	8/27/2019	40	594	<0.001	<0.001	<0.001	< 0.003	120	Clear No odor
2	55.59	70.22	2.3	10	11/14/2019	36	749	< 0.001	<0.001	<0.001	<0.003	146	Clear No odor
2	55.65	70.22	2.3	10	3/3/2020	36	556	< 0.001	<0.001	<0.001	<0.003	140	Clear No odor
2	55.96	70.22	2.3	10	5/29/2020	36	724	XXX	XXX	XXX	XXX	150	Clear No odor
2	56.16	70.22	2.2	10	9/9/2020	48	795	XXX	XXX	XXX	XXX	174	Clear No odor
2	55.26	70.22	2.4	10	10/30/2020	36	604	XXX	XXX	XXX	XXX	144	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	52.55	70.23	2.8	10	3/4/2011	80	687	<0.001	<0.001	<0.001	< 0.003	97	Clear No odor
3	52.96	70.23	2.8	10	5/31/2011	80	632	< 0.001	<0.001	<0.001	<0.003	94.3	Clear No odor
3	53.17	70.23	2.7	10	8/29/2011	84	685	<0.001	< 0.001	<0.001	<0.003	93.8	Clear No odor
3	53.34	70.23	2.7	10	11/14/2011	72	708	<0.001	<0.001	<0.001	<0.003	93.2	Clear No odor
3	53.58	70.23	2.7	10	2/14/2012	85	753	<0.001	<0.001	<0.001	<0.003	99.5	Clear No odor
3	53.75	70.23	2.6	10	5/23/2012	76	705	<0.001	<0.001	<0.001	<0.003	92.6	Clear No odor
3	53.84	70.23	2.6	10	7/13/2012	60	766	<0.001	< 0.001	<0.001	<0.003	91.8	Clear No odor
3	54.14	70.23	2.6	10	11/1/2012	76	783	<0.001	<0.001	<0.001	<0.003	88.3	Clear No odor
3	55.27	70.23	2.4	10	2/8/2013	80	734	<0.001	<0.001	<0.001	<0.003	84	Clear No odor
3	55.38	70.23	2.4	10	5/22/2013	76	750	<0.001	<0.001	<0.001	<0.003	71.6	Clear No odor
3	54.17	70.23	2.6	10	9/3/2013	60	683	<0.001	<0.001	<0.001	<0.003	71.9	Clear No odor
3	54.51	70.23	2.5	10	11/11/2013	48	712	<0.001	<0.001	<0.001	<0.003	76.4	Clear No odor
3	54.54	70.23	2.5	10	3/3/2014	80	734	<0.001	<0.001	<0.001	<0.003	84.6	Clear No odor
3	54.73	70.23	2.5	10	5/28/2014	96	758	<0.001	<0.001	<0.001	<0.003	92.4	Clear No odor
3	54.94	70.23	2.4	10	8/15/2014	84	708	<0.001	<0.001	<0.001	<0.003	76.5	Clear No odor
3	53.38	70.23	2.7	10	11/19/2014	24	806	<0.001	<0.001	<0.001	<0.003	249	Clear No odor
3	53.12	70.23	2.7	10	2/20/2015	80	738	<0.001	<0.001	<0.001	<0.003	65	Clear No odor
3	53.56	70.23	2.7	10	5/28/2015	84	754	<0.001	<0.001	<0.001	<0.003	84.8	Clear No odor
3	53.64	70.23	2.7	10	8/14/2015	76	730	<0.001	<0.001	<0.001	<0.003	54	Clear No odor
3	53.88	70.23	2.62	10	11/9/2015	32	712	<0.001	<0.001	<0.001	<0.003	192	Clear No odor
3	53.64	70.23	2.7	10	2/22/2016	80	710	<0.001	<0.001	<0.001	<0.003	77	Clear No odor
3	53.53	70.23	2.7	10	5/11/2016	64	792	<0.001	<0.001	<0.001	<0.003	175	Clear No odor
3	54.83	70.23	2.6	10	9/9/2016	76	620	<0.001	<0.001	<0.001	<0.003	47	Clear No odor
3	53.84	70.23	2.6	10	11/9/2016	24	760	<0.001	<0.001	<0.001	<0.003	182	Clear No odor
3	53.76	70.23	2.6	10	2/17/2017	92	730	<0.001	<0.001	<0.001	<0.003	78	Clear No odor
3	53.58	70.23	2.7	10	5/22/2017	96	784	<0.001	<0.001	<0.001	<0.003	65	Clear No odor
3	54.83	70.23	2.7	10	9/6/2017	40	914	<0.001	<0.001	<0.001	<0.003	251	Clear No odor
3	54.81	70.23	2.7	10	11/28/2017	104	758	<0.001	<0.001	<0.001	<0.003	103	Clear No odor
3	54.78	70.23	2.5	10	2/26/2018	60	714	<0.001	<0.001	<0.001	<0.003	225	Clear No odor

MW	Depth to	Total	Well	Volume	Sample Date	CI	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
10100	Water	Depth	Volume	Purged	Sample Date			Denzene	Toluciic	Benzene	Xylenes	Junate	comments
3	54.75	70.23	2.5	10	5/14/2018	96	886	<0.001	<0.001	<0.001	<0.003	227	Clear No odor
3	55.01	70.23	2.4	10	8/31/2018	140	764	<0.001	<0.001	<0.001	<0.003	73.4	Clear No odor
3	54.24	70.23	2.6	10	11/9/2018	128	468	<0.001	<0.001	<0.001	<0.003	76.4	Clear No odor
3	54.23	70.23	2.6	10	2/28/2019	148	822	<0.001	<0.001	<0.001	<0.003	88	Clear No odor
3	54.21	70.23	2.6	10	5/23/2019	132	808	<0.001	<0.001	<0.001	<0.003	86	Clear No odor
3	55.41	70.23	2.4	10	8/27/2019	56	793	<0.001	<0.001	<0.001	<0.003	154	Clear No odor
3	55.62	70.23	2.3	10	11/14/2019	132	890	<0.001	<0.001	<0.001	<0.003	91	Clear No odor
3	55.69	70.23	2.3	10	3/3/2020	140	888	<0.001	<0.001	<0.001	<0.003	107	Clear No odor
3	56.01	70.23	2.3	10	5/29/2020	140	917	XXX	XXX	XXX	XXX	126	Clear No odor
3	56.21	70.23	2.2	10	9/9/2020	160	960	XXX	XXX	XXX	XXX	112	Clear No odor
3	55.3	70.23	2.4	10	10/30/2020	160	866	XXX	XXX	XXX	XXX	105	Clear No odor



November 09, 2020

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 11/02/20 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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_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:	11/02/2020	Sampling Date:	10/30/2020
Reported:	11/09/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1R (H002889-01)

Chloride, SM4500Cl-B	mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	160	4.00	11/03/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	112	25.0	11/05/2020	ND	23.8	119	20.0	6.41	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	964	5.00	11/05/2020	ND	553	111	500	4.83	

Sample ID: MONITOR WELL #2 (H002889-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	11/03/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	144	25.0	11/05/2020	ND	23.8	119	20.0	6.41	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	604	5.00	11/05/2020	ND	553	111	500	4.83	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	11/02/2020	Sampling Date:	10/30/2020
Reported:	11/09/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H002889-03)

Chloride, SM4500Cl-B	mg,	mg/L		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	160	4.00	11/03/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	105	25.0	11/05/2020	ND	23.8	119	20.0	6.41	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	866	5.00	11/06/2020	ND	553	111	500	4.83	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Tel (575) 3 Fax (575) 3		ina	lI	Ja	b	01	ra	t	Dr	ie	s,	I	[n	c.		\vdash	_	CI	HAI		-		ST ID #		YA	ANE	A	NA	LYS	SIS	RE	QUE	ST	
Company Name: RICE Oper Project Manager:	ating Company		BILL		per	atin		om	pany			PO				\uparrow					A	NA	LY	SIS		EQ		ST No.)				-		
Katie Jones	S (Street, City, Zip)		122 V	V Tay	lor St	ress: reet ~ ne#:	Hob	bs, I	lew M		treet, 0 8824)										bee				NO.)]
Phone #:	reet ~ Hobbs, New Mexico 88240	Fax #	(57	5) 39			Ļ			_				397-'	1471					B/200.7														
(575) 393-9 Project #:	Project Name:		5)397-	-147	'1	_	_				/	7)			ed (C35	0100	Hg 6010	,													
Project Location: T19S-R37E	EME Junction G-18 E-Sec18 G ~ Lea County - New		0		San	pler	Signa	ature	R	zani	né Jol	haso	on (5	75)631-	9310			5 Extend		r Pb Se F						25					03)			
400288		Τ		L	м	ATR	x	1	PR	SE	RVA THO	TIV	E	SAM	PLING			/ IX100	01010	Ba Cd C					624	8270C/625		38			a, K) 03. HC		lids	
LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE		HCL (4-40ml VOA) HNO3	NaHSO ₄	H₂SO₄	ICE (1-1Liter HDPE)	NONE	DATE (2020)	TIME	MTBE 8021B/602	BTEX 8021B/602	IPH 418.1/1X1005 / 1X1005 Extended (C35)	Tatal Matala An An F	TCLP Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides		GC/MS Vol. 8260B/624		PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K) Anions (Cl. SO4, CO3, HCO3)	Sulfates	Total Dissolved Solids	Chlorides
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September 17, 2020

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 09/11/20 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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_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:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1 R (H002419-01)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	132	4.00	09/14/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	120	25.0	09/14/2020	ND	18.6	92.8	20.0	2.12	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	947	5.00	09/15/2020	5.00	830	83.0	1000	1.14	

Sample ID: MONITOR WELL #2 (H002419-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	48.0	4.00	09/14/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	174	25.0	09/14/2020	ND	18.6	92.8	20.0	2.12	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	795	5.00	09/15/2020	5.00	830	83.0	1000	1.14	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H002419-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	160	4.00	09/14/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	112	25.0	09/14/2020	ND	18.6	92.8	20.0	2.12	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	960	5.00	09/15/2020	5.00	830	83.0	1000	1.14	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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FIELD CODE	(G)rab or (C)omp	# CONTAINERS					HCL (4-40ml VOA)				ICE (1-1Liter HDPE)		~		MTBE 8021B/602	BTEX 8021B/602	X10	Ag A	Ag A	olati	TCLP Pesticides		8260	Nol.	808	081A	Maisture Content	Mg	304		led	Chlorides
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Z Monitor Well #2	G	1	X								1		9/9	9:05																X	x	x
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June 04, 2020

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 06/01/20 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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:	06/01/2020	Sampling Date:	05/29/2020
Reported:	06/04/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1R (H001477-01)

Chloride, SM4500Cl-B	/L	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	136	4.00	06/02/2020	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	115	25.0	06/02/2020	ND	20.1	101	20.0	0.890	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	901	5.00	06/03/2020	ND	540	108	500	0.777	

Sample ID: MONITOR WELL #2 (H001477-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	06/02/2020	ND	104	104	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	150	25.0	06/02/2020	ND	20.1	101	20.0	0.890	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	724	5.00	06/03/2020	ND	523	105	500	0.415	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	06/01/2020	Sampling Date:	05/29/2020
Reported:	06/04/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H001477-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	140	4.00	06/02/2020	ND	104	104	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	126	25.0	06/02/2020	ND	20.1	101	20.0	0.890	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	917	5.00	06/03/2020	ND	523	105	500	0.415	

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Celez 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

101 East Marland - Hobbs, NM 88240 Tel (575) 393-2326	ina	lL	a	b	Dr	a	to	r	ie	s,	I	n	c.				CH	_			-		-	AN	DA		LY	SIS	RE	QU	EST		_
Company Name: RICE Operating Company		BILL RIC	0	Com pera	ipany ating				,		PO#	#			ANALYSIS REQUEST (Circle or Specify Method No.)																		
Project Manager: Katie Jones Address: (Street, City, Zip)		122 W	/ Tayl	Addr or Str Phor	eet ~	Hob	bs, N	ew M	0	treet, 0 8824	10.10	5. 63							Ĩ]
122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #:	Fax #	(575	5) 39			-11							397-1	471				6010B/200 7	1.002/01														
(575) 393-9174 Project #: Project Name:		5)397-	147	1	/	1	X)					2			led (C35	Ha BO10	Hg BH														
EME Junction G-1 Project Location: T19S-R37E-Sec18 G ~ Lea County - New		0		Sam	pler	Signa	ature	R	ozan	ne Jo	hnso	in (57	5)631-	9310			5 Extend	Cr Dh Sa Ha	Sr Pb Se Hg					25	3					(03)			a line
	Mexic	$\mathbf{\mathbf{F}}$	Ĺ	M	ATR	jx	Ï	PR		RVA		E	SAMI	PLING			/ TX100	Ra Cd C	Ba Cd C		s		V Cal	8270C1625		08			Va, K)	CO3, HC	olids		~ 24 Hours
HOOIY77 LAB # FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	10	HCL (2 40ml VOA)	NaHSO,	H ₂ SO ₄	ICE (1-1Liter HDPE)	NONE	DATE (2020)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	Total Matals An As	TCLP Metals Ag As Ba Cd Cr Pb	TCLP Volatiles	TCLP Semi Volatiles	ICLP Pesticides	RCI	GUIVIS VOI. 02000/024		Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, CO3, HCO3)	Total Dissolved Solids	Chlorides	Turn Around Time ~
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March 10, 2020

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 03/05/20 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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:	03/05/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1 R (H000723-01)

	• • • •	/							
BTEX 8021B	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	03/06/2020	ND	0.020	102	0.0200	0.425	
Toluene*	<0.001	0.001	03/06/2020	ND	0.020	99.8	0.0200	0.240	
Ethylbenzene*	<0.001	0.001	03/06/2020	ND	0.020	101	0.0200	0.0198	
Total Xylenes*	<0.003	0.003	03/06/2020	ND	0.060	99.6	0.0600	0.0921	
Total BTEX	<0.006	0.006	03/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6 %	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	140	4.00	03/06/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	111	25.0	03/05/2020	ND	22.5	113	20.0	2.28	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	03/05/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #2 (H000723-02)

BTEX 8021B	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	03/06/2020	ND	0.020	102	0.0200	0.425	
Toluene*	<0.001	0.001	03/06/2020	ND	0.020	99.8	0.0200	0.240	
Ethylbenzene*	<0.001	0.001	03/06/2020	ND	0.020	101	0.0200	0.0198	
Total Xylenes*	<0.003	0.003	03/06/2020	ND	0.060	99.6	0.0600	0.0921	
Total BTEX	<0.006	0.006	03/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	03/06/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	140	25.0	03/05/2020	ND	22.5	113	20.0	2.28	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	556	5.00	03/10/2020	ND	526	105	500	2.86	

Cardinal Laboratories

*=Accredited Analyte

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:	03/05/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H000723-03)

BTEX 8021B	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	03/06/2020	ND	0.020	102	0.0200	0.425	
Toluene*	<0.001	0.001	03/06/2020	ND	0.020	99.8	0.0200	0.240	
Ethylbenzene*	<0.001	0.001	03/06/2020	ND	0.020	101	0.0200	0.0198	
Total Xylenes*	<0.003	0.003	03/06/2020	ND	0.060	99.6	0.0600	0.0921	
Total BTEX	<0.006	0.006	03/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	140	4.00	03/06/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	107	25.0	03/05/2020	ND	22.5	113	20.0	2.28	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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| | ting Company treet, City, Zip) tet ~ Hobbs, New Mexico 88240 174 Project Name: EME Junction G-18 Sec18 G ~ Lea County - New N FIELD CODE Monitor Well #1R Monitor Well #1R Monitor Well #2 Monitor Well #3 Date: Time: Date: Time: (Circle One) | ting Company treet, City, Zip) treet, City, Zip) tet ~ Hobbs, New Mexico 86240 Fax #: 174 (575) Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico FIELD CODE FIELD CODE FIELD CODE Monitor Well #1R G Monitor Well #1R G Monitor Well #2 G Monitor Well #3 G Monitor Well | BILL T ting Company BILL T 122 W treet, City, Zip) (575) tet ~ Hobbs, New Mexico 88240 (575) 174 (575) Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico Image: Secial County - New Mexico FIELD CODE Image: Secial County - New Mexico FIELD CODE Image: Secial County - New Mexico Monitor Well #1R G Monitor Well #2 G Monitor Well #3 G Image: Time: Image: County Image: Time: Received by Image: Time: Received By Image: Time: Received By Image: Time: Received By | BILL TO ting Company Indext and the second | BILL TO Company RICE Operation Addression 122 W Taylor Street Phone 124 Hobbs, New Mexico 88240 (575) 393-91 Fax #: (575) 397-1471 Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico Samp FIELD CODE 0 0 0 90 (0) 0 90 (0) 0 90 (0) 0 91 (0) 0 92 (0) 10 93 (1) 10 90 (1) 0 90 (1) 10 91 (1) 10 92 (1) 10 93 (1) 10 90 (1) 10 91 (1) 10 92 (1) 10 93 (1) 10 94 (1) 10 95 (1) 14 94 (1) 10 95 (1) 14 94 (1) | BILL TO Company: RICE Operating (Address: 122 W Taylor Street ~ H treet, City, Zip) Phone#: et ~ Hobbs, New Mexico 88240 (575) 393-9174 Fax #: [74 174 (575) 393-9174 Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico Sampler Sig Sec18 G ~ Lea County - New Mexico MATRIX FIELD CODE 0 00 0 90 0 91 0 92 0 93 X 93 X 93 X 94 0 90 3 93 X 94 0 95 3 94 0 97 0 97 0 90 3 90 3 91 0 92 0 93 1 93 1 93 1 | BILL TO Company: RICE Operating Com Address: 122 W Taylor Street ~ Hobbs, treet, City, Zip) et ~ Hobbs, New Mexico 88240 Fax #: 174 Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico FIELD CODE 000 910 910 </td <td>BILL TO Company: RICE Operating Compary: Address: 122 W Taylor Street ~ Hobbs, New Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico FIELD CODE Built TO Company: Rice Operating Compary: Rice Operating Compary: Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico FIELD CODE Built TR G Sec18 G ~ Lea County - New Mexico FIELD CODE Built TR G Star Monitor Well #1R G A A A Date: Time: Received by: Date: Time: Received by: Corole Sample Condition Cool Image: Time: Received by: Cool Sample Condition Sample Condition</td> <td>BILL TO Company: RICE Operating Company Address: 122 W Taylor Street ~ Hobbs, New Mex reet, City, Zip) et ~ Hobbs, New Mexico 88240 Fax #: 174 Project Name: EME Junction G-18 Sec18 G ~ Lea County - New Mexico FIELD CODE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 11 11 12 11 12 12 13 14 15 16 17 18 19 110 12 12 13 14 15 14</td> <td>BILL TO Company:
RICE Operating Company
Address: (Street
122 W Taylor Street ~ Hobbs, New Mexico 882
treet, City, Zip) Phone#:
(575) 393-9174 Fax #:
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Release



December 04, 2019

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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_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:	11/15/2019	Sampling Date:	11/14/2019
Reported:	12/04/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1 R (H903888-01)

BTEX 8021B	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	11/24/2019	ND	0.019	96.8	0.0200	0.956	
Toluene*	<0.001	0.001	11/24/2019	ND	0.019	93.7	0.0200	0.628	
Ethylbenzene*	<0.001	0.001	11/24/2019	ND	0.019	95.4	0.0200	0.648	
Total Xylenes*	<0.003	0.003	11/24/2019	ND	0.058	95.9	0.0600	0.741	
Total BTEX	<0.006	0.006	11/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 %	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	128	4.00	11/19/2019	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	90.7	25.0	11/22/2019	ND	21.1	106	20.0	14.9	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
	Result	Reporting Linit	/			,	e e		

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	11/15/2019	Sampling Date:	11/14/2019
Reported:	12/04/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #2 (H903888-02)

BTEX 8021B	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	11/24/2019	ND	0.019	96.8	0.0200	0.956	
Toluene*	<0.001	0.001	11/24/2019	ND	0.019	93.7	0.0200	0.628	
Ethylbenzene*	<0.001	0.001	11/24/2019	ND	0.019	95.4	0.0200	0.648	
Total Xylenes*	<0.003	0.003	11/24/2019	ND	0.058	95.9	0.0600	0.741	
Total BTEX	<0.006	0.006	11/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	11/19/2019	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	146	25.0	11/22/2019	ND	21.1	106	20.0	14.9	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	749	5.00	11/21/2019	ND	533	101	527	0.375	

Cardinal Laboratories

*=Accredited Analyte

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:	11/15/2019	Sampling Date:	11/14/2019
Reported:	12/04/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H903888-03)

BTEX 8021B	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	11/24/2019	ND	0.019	96.8	0.0200	0.956	
Toluene*	<0.001	0.001	11/24/2019	ND	0.019	93.7	0.0200	0.628	
Ethylbenzene*	<0.001	0.001	11/24/2019	ND	0.019	95.4	0.0200	0.648	
Total Xylenes*	<0.003	0.003	11/24/2019	ND	0.058	95.9	0.0600	0.741	
Total BTEX	<0.006	0.006	11/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	6 58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	132	4.00	11/19/2019	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	91.0	25.0	11/22/2019	ND	21.1	106	20.0	14.9	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	890	5.00	11/21/2019	ND	533	101	527	0.375	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	na		ล	b	or	at	0	ri	6	2	T	nc					СН	-		-		-	-				LYS	age SIS	_	1 QU		<u>1</u> Г	
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Katie Jones Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #: (575) 393-9174 Optionst #: Design News	Fax #: (575	122 W (575))397-1) 39	Phor 3-9	ne#:		s, Ne	w Me		88240 F) =ax#:		97-14	171			(C35)	6010B/200.7															
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LAB # LAB USE ONLY	(G)rab or (C)omp	# CONTAINERS	WATER		AIRD	SLUDGE	HCL (2 40ml VOA)		VIETI	HOD	Liter HDPE)	s	DATE (2019)	-ING EN ING	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	otal Metals Ag As Ba C	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles TCI P Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	IOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (cu, acu4, ccu3, Sulfates	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24
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September 09, 2019

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 08/29/19 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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_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:	08/29/2019	Sampling Date:	08/27/2019
Reported:	09/09/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1 R (H903000-01)

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BTEX 8021B	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	08/30/2019	ND	0.020	100	0.0200	3.23	
Toluene*	<0.001	0.001	08/30/2019	ND	0.020	99.2	0.0200	3.43	
Ethylbenzene*	<0.001	0.001	08/30/2019	ND	0.019	93.5	0.0200	4.99	
Total Xylenes*	<0.003	0.003	08/30/2019	ND	0.060	101	0.0600	5.68	
Total BTEX	<0.006	0.006	08/30/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.2 %	81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	84.0	4.00	09/03/2019	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	165	50.0	09/03/2019	ND	18.4	92.1	20.0	0.217	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	886	5.00	09/03/2019	ND	544	103	527	2.98	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	08/29/2019	Sampling Date:	08/27/2019
Reported:	09/09/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #2 (H903000-02)

BTEX 8021B	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	08/30/2019	ND	0.020	100	0.0200	3.23	
Toluene*	< 0.001	0.001	08/30/2019	ND	0.020	99.2	0.0200	3.43	
Ethylbenzene*	< 0.001	0.001	08/30/2019	ND	0.019	93.5	0.0200	4.99	
Total Xylenes*	<0.003	0.003	08/30/2019	ND	0.060	101	0.0600	5.68	
Total BTEX	<0.006	0.006	08/30/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.3 9	81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	40.0	4.00	09/03/2019	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	120	50.0	09/03/2019	ND	18.4	92.1	20.0	0.217	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	594	5.00	09/03/2019	ND	544	103	527	2.98	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	08/29/2019	Sampling Date:	08/27/2019
Reported:	09/09/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H903000-03)

BTEX 8021B	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	08/30/2019	ND	0.020	100	0.0200	3.23	
Toluene*	< 0.001	0.001	08/30/2019	ND	0.020	99.2	0.0200	3.43	
Ethylbenzene*	< 0.001	0.001	08/30/2019	ND	0.019	93.5	0.0200	4.99	
Total Xylenes*	<0.003	0.003	08/30/2019	ND	0.060	101	0.0600	5.68	
Total BTEX	<0.006	0.006	08/30/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	09/03/2019	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	154	50.0	09/03/2019	ND	18.4	92.1	20.0	0.217	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	793	5.00	09/03/2019	ND	544	103	527	2.98	

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

9	Page 6 of																											Pa	ge_	1	of	1	
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	ONLY	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR		HCL (2 40ml VOA)	HNO ₃	NaHSO4	H ₂ SO ₄	ICE (1-1Liter HDPE) NONE	DATE (2019)	TIME	MTBE 8021B/602	BTEX 8021B/602	PH 4	PAH 8270C	CI P N	CLPV	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol.	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Total Dissolved Solids	Chlorides	Im An
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June 04, 2019

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 05/24/19 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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_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:	05/24/2019	Sampling Date:	05/23/2019
Reported:	06/04/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1 R (H901864-01)

		•								
BTEX 8021B		mg/	L	Analyze	d By: ms					
An	alyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.001	0.001	05/28/2019	ND	0.020	98.3	0.0200	1.32	
Toluene*		<0.001	0.001	05/28/2019	ND	0.021	103	0.0200	0.306	
Ethylbenzene*		<0.001	0.001	05/28/2019	ND	0.020	98.1	0.0200	0.373	
Total Xylenes*		<0.003	0.003	05/28/2019	ND	0.061	102	0.0600	0.931	
Total BTEX		<0.006	0.006	05/28/2019	ND					
Surrogate: 4-Br	romofluorobenzene (PID	94.9 %	6 81.3-12	8						
Chloride, SM45	00СІ-В	mg/	L	Analyze	d By: JH					
An	alyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*		136	4.00	05/30/2019	ND	100	100	100	3.92	
Sulfate 375.4		mg/	L	Analyze	d By: JH					
An	alyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*		230	50.0	05/30/2019	ND	21.6	108	20.0	7.75	
TDS 160.1		mg/	L	Analyze	d By: AC					
An	alyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	05/24/2019	Sampling Date:	05/23/2019
Reported:	06/04/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #2 (H901864-02)

BTEX 8021B	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	05/28/2019	ND	0.020	98.3	0.0200	1.32	
Toluene*	<0.001	0.001	05/28/2019	ND	0.021	103	0.0200	0.306	
Ethylbenzene*	<0.001	0.001	05/28/2019	ND	0.020	98.1	0.0200	0.373	
Total Xylenes*	<0.003	0.003	05/28/2019	ND	0.061	102	0.0600	0.931	
Total BTEX	<0.006	0.006	05/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7 %	81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	40.0	4.00	05/30/2019	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	167	25.0	05/30/2019	ND	21.6	108	20.0	7.75	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	704	5.00	06/04/2019	5.00	510	96.8	527	0.498	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	05/24/2019	Sampling Date:	05/23/2019
Reported:	06/04/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H901864-03)

BTEX 8021B	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	05/28/2019	ND	0.020	98.3	0.0200	1.32	
Toluene*	<0.001	0.001	05/28/2019	ND	0.021	103	0.0200	0.306	
Ethylbenzene*	<0.001	0.001	05/28/2019	ND	0.020	98.1	0.0200	0.373	
Total Xylenes*	<0.003	0.003	05/28/2019	ND	0.061	102	0.0600	0.931	
Total BTEX	<0.006	0.006	05/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	132	4.00	05/30/2019	ND	100	100	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	86.2	25.0	05/30/2019	ND	21.6	108	20.0	7.75	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	808	5.00	06/04/2019	5.00	510	96.8	527	0.498	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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LAB #	FIELD CODE	(C)omp	AINERS			1						1	7	19)		21B/602	1B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	C le An Ae R	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	i Volatiles icides		GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	2/608	Pesticides 8081A/608	Hd	Moisture Content	Cations (Ca, Mg, Na, K) Anions (CL SO4 CO3 HCO3)	5 500	Total Dissolved Solids		∽ d Timo ~
LAB USE ONLY 901864		(G)rab or (C)omp	# CONTAINERS	SLUDGE			NaHSO,	H ₂ SO ₄	ICE (1-1Liter HDPE)	NONE	DATE (2019)	TIME	MTBE 8021B/602	BTEX 8021B/602	FPH 418.	Total Metals	FCLP Met	CLP Vola	TCLP Semi Volat TCL P Pesticides	RCI	SC/MS Vo	SC/MS Se	PCB's 8082/608	esticides	BOD, TSS, pH	Aoisture C	Ullis (U	Sulfates	otal Diss	Chlorides	Turn Around Time			
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elivered By:	(Circle One)	Sample	Condit			lot-				CHE	CKE	ED B	Y:								roz	ann	e11	@v	vind	stre	am	i.ne	et					
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ampler - l	JPS - Bus - Other:		No		No			T	0			<u>.</u>																						



March 14, 2019

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

RE: EME JUNCTION G-18

Enclosed are the results of analyses for samples received by the laboratory on 03/01/19 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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_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:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/14/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #1R (H900831-01)

•	•										
BTEX 8021B	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	03/05/2019	ND	0.021	106	0.0200	0.538			
Toluene*	<0.001	0.001	03/05/2019	ND	0.019	97.0	0.0200	0.862			
Ethylbenzene*	<0.001	0.001	03/05/2019	ND	0.020	102	0.0200	1.06			
Total Xylenes*	<0.003	0.003	03/05/2019	ND	0.064	106	0.0600	1.06			
Total BTEX	<0.006	0.006	03/05/2019	ND							
Surrogate: 4-Bromofluorobenzene (PID	95.6%	81.3-12	8								
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride*	140	4.00	03/05/2019	ND	108	108	100	3.77			
Sulfate 375.4	mg/	L	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Sulfate*	85.0	10.0	03/06/2019	ND	23.2	116	20.0	0.303			
TDS 160.1	mg/	L	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
TDS*	605	5.00	03/08/2019	ND	509	96.6	527	0.770			

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/14/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #2 (H900831-02)

BTEX 8021B	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	03/05/2019	ND	0.021	106	0.0200	0.538	
Toluene*	<0.001	0.001	03/05/2019	ND	0.019	97.0	0.0200	0.862	
Ethylbenzene*	<0.001	0.001	03/05/2019	ND	0.020	102	0.0200	1.06	
Total Xylenes*	<0.003	0.003	03/05/2019	ND	0.064	106	0.0600	1.06	
Total BTEX	<0.006	0.006	03/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5 9	81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	40.0	4.00	03/05/2019	ND	108	108	100	3.77	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	168	10.0	03/06/2019	ND	23.2	116	20.0	0.303	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	422	5.00	03/08/2019	ND	509	96.6	527	0.770	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/14/2019	Sampling Type:	Water
Project Name:	EME JUNCTION G-18	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T19S-R37E-SEC18 G-LEA COUNTY, NM		

Sample ID: MONITOR WELL #3 (H900831-03)

BTEX 8021B	mg/	L	Analyze	d By: ms					
Analyte	Result Reporting Limit Analy:		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/05/2019	ND	0.021	106	0.0200	0.538	
Toluene*	<0.001	0.001	03/05/2019	ND	0.019	97.0	0.0200	0.862	
Ethylbenzene*	<0.001	0.001	03/05/2019	ND	0.020	102	0.0200	1.06	
Total Xylenes*	<0.003	0.003	03/05/2019	ND	0.064	106	0.0600	1.06	
Total BTEX	<0.006	0.006	03/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 %	6 81.3-12	8						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	148	4.00	03/05/2019	ND	108	108	100	3.77	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	88.4	10.0	03/06/2019	ND	23.2	116	20.0	0.303	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	822	5.00	03/08/2019	ND	509	96.6	527	0.770	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Fax (575) 39 ompany Name:	3-2476					_					59									LAB	Orde	er ID	#										
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oject Manager:						ress:					treet,	City, 2	Zip)			(Circle or Specify Method No.)																	
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			to	4		2			_	ME	THO			0/101	LING			5/T	Ba	s Ba	5	ß		3/62	827		608		Na,	ő	olide		2
LAB #		(G)rab or (C)omp	CONTAINERS					NAC	5			ICE (1-1Liter HDPE)				/602	602	<100	d As	Ag A	TCLP Volatiles	es		GC/MS Vol. 8260B/624	GC/MS Semi. Vol.	80	Pesticides 8081A/608	BOD, TSS, pH	Mg,	64	Sulfates Total Discolved Solids	5	Time
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1900831		(G)ra	UC #	WATER	SOIL	AIR	SLU		HNO	NaHSO4	H ₂ SO ₄	빙	ğ	DATE (2019)	TIME	MTBE 8021B/602	BTEX 8021B/602	HAL	Total Metals	CLP	TCLP Volatiles	TCLP Pesticides	RCI	SCIN	SCIN	PCB's 8082/608	estic	Moisture Cont.	Catio	Vnior	Sulfates Total Dis-	Chlorides	5
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2	Monitor Well #2	G	3	x				2	_		\top	1		2/28	9:50		x		-			+	1				+	+	+	+	x)	-	-
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Excavation and Liner Installation Photo Documentation

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174

EME Jct. G-18 (1R427-162) Unit G, Section 18, T19S, R37E



Site prior to excavation, facing east 10.27.11



Excavating site, facing east





Installed bottom 6" sand pad, facing northwest 12.6.11



Installing 6" sand pad above liner with imported blow sand, facing east 12.7.11



Site excavated to 49x44x5-ft deep, facing north 12.2.11



20-mil reinforced plastic liner installed at 4.5 ft BGS, facing northeast 12.7.11



Exporting soil, facing west

12.8.11



Importing blow sand, facing south 12.9.11



Backfilling with blended backfill, facing south 12.8.11



Backfilling top 6" with blow sand, facing east 12.9.11



Site completed, facing east

4.11.12



Seeding site, facing northeast

1.4.12

Initial CAP Report and Soil Closure Request and NMOCD Approval

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174

From:	Hansen, Edward J., EMNRD
To:	Hack Conder
Cc:	Leking, Geoffrey R, EMNRD; Katie Jones; Laura Pena; Lara Weinheimer (Iweinheimer@rice-ecs.com)
Subject:	Soil Closure Approval (1R427-162) - ROC EME Jct G-18 Site
Date:	Monday, October 15, 2012 4:16:56 PM
Date:	Monday, October 15, 2012 4:16:56 PM

RE: Soil Closure Request for the Rice Operating Company's EME Jct G-18 Site Unit Letters G, Section 18, T19S, R37E, NMPM, Lea County, New Mexico Soil Closure Approval (1R427-162)

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the Rice Operating Company's (ROC) Soil Closure Request for the Remediation Plan (1R427-162) for the EME Jct G-18 Site, dated October 15, 2012. The above-referenced report, submitted in fulfillment of 19.15.29 NMAC (Rule 29, formally, Rule 116), indicates that Rice Operating Company (ROC) has partially met the requirements of 19.15.29 NMAC for this site. Therefore, the OCD hereby conditionally approves the soil closure for the EME Jct G-18 Site and no further soil remediation is required for this site:

The ROC EME Jct G-18 Site is still active under Remediation Plan, 1R427-162, and groundwater monitoring, further groundwater contamination delineation if warranted, and groundwater remediation if warranted must continue at the ROC EME Jct G-18 Site.

Please be advised that OCD approval of this request does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

RICE Operating Company

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

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0003 0320 5426

October 15, 2012

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

RE: Soil Closure Request EME Jct. G-18 (1R427-162): UL/G, Sec. 18, T19S, R37E RICE Operating Company – EME SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the Eunice Monument Eumont (EME) Saltwater Disposal (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

The site is located approximately 3 miles northwest of Monument, New Mexico at UL/G, Sec. 18, T19S, R37E. Depth to groundwater at this site is approximately 54 +/- ft below ground surface (bgs).

In 2004, ROC initiated work on the former EME G-18 junction box. The site was delineated using a backhoe to collect soil samples at regular intervals. The excavation reached dimensions of 20 ft x 18 ft x 12 ft (bgs). Composite samples were sent to a commercial laboratory for chloride and TPH analyses, resulting in elevated concentration of chloride in the bottom composite, elevated

concentrations of TPH, BTEX above detectable limits. A 1-ft thick clay layer was installed from 6-5 ft bgs, to inhibit further chloride migration and a compaction test was performed on April 16th, 2004. The site was backfilled, the area was contoured to the surrounding landscape and an identification plate was placed on the surface of the site to mark its location for future environmental considerations. A new junction box was not required at the site.

Between June 2nd, 2004 and December 6th, 2010, fives soil bores were drilled at and surrounding the former junction box, and three monitoring wells were also. An ICP Report and CAP was then submitted to the NMOCD, which detailed the findings of the soil borings. The report requested a 6-month source removal and test pumping program and MW-1 be plugged and replaced with a 4 inch well, as well as, a 44x49 ft, 20-mil liner be installed at 4-5 ft bgs. NMOCD approved the plan on July 18, 2011.

SOIL

Beginning on November 23rd, 2011, the site was excavated to 44 ft x 49 ft x 5 ft deep. Excavated soil was blended on site to use as backfill. A composite sample of the blended soil was field tested for hydrocarbons using a PID meter and returned a result of 4.0 ppm. The sample was then sent to a commercial laboratory for analysis of chlorides and returned a result of 80 mg/kg. Clean soil was imported to the site to pad the liner to protect it from punctures. A sample of the imported soil was field tested for hydrocarbons using a PID meter and returned a result of 0.6 ppm. The sample was then sent to a commercial laboratory for analysis of chlorides and returned a concentration below detectable limit. The excavation was padded with six inches of the imported sand and then the liner was properly seated into the excavation at approximately 4.5 ft bgs. The liner was padded on top with six inches of imported sand and then backfilled with the blended soil to six inches bgs. The remaining imported soil was used to complete the backfill and to contour the site to the surrounding area. A total of 132 yards of soil was imported to the site to use as padding and as backfill. The remainder of the blended soil, 228 yards, was taken to a NMOCD approved facility for disposal. The site was seeded with a blend of native vegetation and a silt net fence was placed around the area to maintain seed integrity.

GROUNDWATER

On October 26th, 2011, MW-1 was plugged and abandoned with a 1-3% bentonite/concrete slurry and capped with three feet of concrete. MW-1 was then replaced with a 4 inch well (MW-1R) which was installed 9 ft southeast of the former MW-1. Initial sampling of MW-1R resulted in chloride concentrations below WQCC standards.

Based on the liner installation and low concentrations of chloride in MW-1R, ROC submitted a Vadose Zone Remediation and Termination Request on April 17, 2012, and NMOCD requested an additional two quarters of sampling.

ROC has completed the vadose zone remediation as approved by NMOCD in the CAP. The 20-mil reinforced liner will inhibit the further migration of chlorides through the vadose zone into groundwater. As such, ROC requests 'Soil Closure' or similar closure status. A recent photograph showing vegetation is attached. ROC will continue monitoring groundwater quality and a report will be submitted to the NMOCD with recommendations.

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, RICE Operating Company

Hack Conder Environmental Manager

enclosures

EME Jct. G-18 (1R427-162) UL/G, Sec. 18, T19S, R37E



Facing Southwest

10/1/2012

Final C-141

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174 Page 6

Oil Conservation Division

	Page 69 of 72
Incident ID	nAPP2105455380
District RP	1R427-162
Facility ID	
Application ID	pLWP0513650720

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.

<u>Closure Report Attachment Checklist</u> : 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 Signature: Law Davie Date: 2/25/2021 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: Bradford Billings Date: 12/08/2021
Printed Name:Bradford Billings Title:Envi.Spec.A

Current Photo

RICE Operating Company

112 West Taylor, Hobbs, NM 88240 Phone 575.393.9174 EME Jct. G-18 (1R427-162) Unit G, Section 18, T19S, R37E



Facing East

11/12/2020

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	19028
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

•••				
С	reated By		Condition Date	
	bbillings	P&A monitor wells as per OSE regulations.	12/8/2021	

CONDITIONS

Action 19028

Page 72 of 72

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