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April 1st, 2024

REVIEWED

By Mike Buchanan at 1:23 pm, Feb 28, 2025

Nelson Velez

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

RE: 2023 Annual Report

Rice Operating Company – EME SWD System EME H-20 SWD (1R427-87): UL H, Sec 20, T20S, R37E Application ID: 202257, Incident ID: nAPP2109547013

Sent by E-mail

Mr. Velez:

This letter summarizes progress made over the past year pursuant to the NN Action Plan for this site and the NMOCD approved 2022 Annual Report (Aby April 1, 2025. active SWD produced water disposal facility is operated at this location by Rice Operating Co.

active SWD produced water disposal facility is operated at this location by Rice Operating Company (ROC). This project is located in the EME field approximately 4 miles south of Monument, New Mexico (Appendix, Figure 1). Over the course of 2023 we continued to monitor up and down-gradient monitor wells (Appendix, Figure 2) for chlorides and petroleum hydrocarbons (BTEX). A groundwater elevation and gradient map is given in Appendix, Figure 3, and the location of the site relative to a large, regional, up-gradient chloride plume is given in Appendix, Figure 4.

In brief:

Groundwater chlorides. Average annual groundwater chloride concentrations are given in the Appendix, Figure 5 and Table 1. The complete groundwater dataset is given in Table 3. Year average groundwater chloride concentrations (Table 1) in the near-source monitor well (MW-1) resulted in a concentration of 1,053 mg/l in 2022 and 1,187 mg/l in 2023¹. Year average groundwater chloride concentrations in the upgradient monitor well (MW-2) dropped from 910 mg/l in 2022 to 783 mg/l in 2023. Year average groundwater chlorides in the down-gradient monitor well (MW-3) dropped from 1,043 mg/l in 2022 to 1,005 mg/l in 2023. Year average groundwater chloride concentrations in the far down-gradient monitor

¹ We have disregarded the 4th qtr chloride measurement for MW-1 in the 2023 average, as it appears to be anomalously high. This is evidenced by a large and sudden spike in chloride concentration with a substantial drop in

Review of the 2023 Annual Report fothe EME-H20 SWD (1R427-87): content satisfactory 1. Propose abatement options or set up meeting with OCD to discuss options for abatement, as previously suggested. 2. ROC must provide data from any upgradient source that has the potential to contaminate underneath EME H-20 SWD. 3. Continue to conduct groundwater monitoring for all constituents (BTEX, TDS, sulfate and chloride) until such meeting is set with the annual report to OCD

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TDS. We will revisit this data point after we collect additional data.

Rice Operating Company EME H-20 SWD Annual Report

well (MW-4) dropped from 1,198 mg/l in 2022 to 1,105 mg/l in 2023. The year average groundwater chloride concentration in the east side-gradient monitor well (MW-5) was essentially unchanged, measuring 1,040 mg/l in 2022 vs 1,038 mg/l in 2023. Groundwater chloride concentrations in the down and side-gradient wells thus continue to slowly, if unevenly, converge toward the prevailing upgradient values (roughly 900 to 1,000 mg/l).

Groundwater benzene. Average annual groundwater benzene concentrations are given in the Appendix, Figure 6 and Table 2. The complete groundwater dataset is given in Table 3. Year average groundwater benzene concentrations in the near-source monitor well (MW-1) dropped from 0.0105 mg/l in 2022 to 0.0100 mg/l in 2023 and are less than a quarter of their high values of over a decade ago and exhibit a clear and consistent downward trend. Year average benzene concentrations in the up-gradient monitor well (MW-2) have remained below the laboratory limit of detection of 0.001 mg/l from 2018 through 2023. The year average benzene concentration in the downgradient monitor well (MW-3) dropped 0.0070 mg/l in 2022 to 0.0033 mg/l in 2023. The year average benzene concentration in the far down-gradient monitor well (MW-4) was below the laboratory limit of detection in 2023 as it was in 2022. Year average benzene concentrations in the east side gradient monitor well (MW-5) have remained below the laboratory limit of detection since 2011. Taken together, these data indicate that dissolved hydrocarbons are no longer a concern at this location.

The direction of groundwater flow across the H-20 SWD site is toward the southeast (Figure 3 & 4) as it is across the surrounding landscape. A (strikingly) large plume of high chloride impacted groundwater exists upgradient of the subject site and will essentially replace the groundwater beneath the site in the coming years (Figure 4). The general, if uneven, overall decline in groundwater chlorides observed in all of the monitor wells over the past years at the subject site will suddenly reverse. This indicates that any effort to abate groundwater chlorides beneath the subject site will be for naught when this occurs and suggests that no further remedial actions are warranted in regard to the chloride concentrations.

As ROC continues the discussion of this matter with NMOCD we will continue to monitor groundwater at the subject site through 2024.

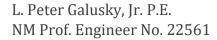
ROC is the service provider (agent) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Please contact either Katie Davis of Rice Operating Company or me if you have any questions or need additional information.

Rice Operating Company EME H-20 SWD Annual Report

Sincerely,



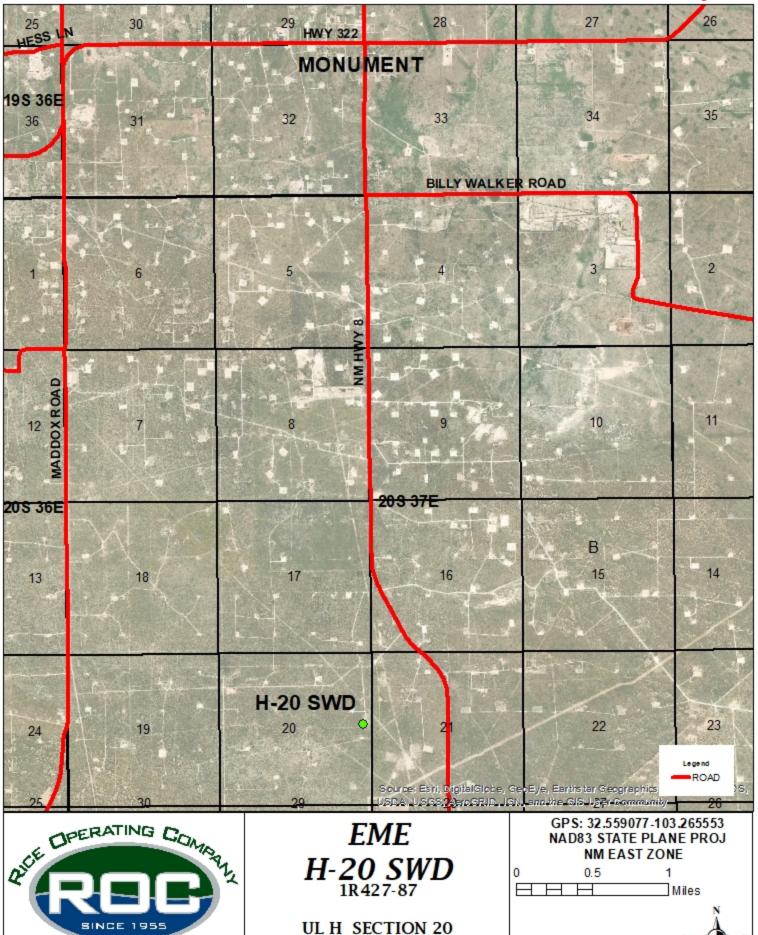




Copy: Rice Operating Company; Attachments: ... as noted, above.

Received by OCD: 3/28/2024 12:25:59 PM Geographic Location





T-20-S R-37-E

LEA COUNTY, NM

Drawing date: 2/3/20

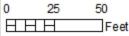
Drafted by: T. Grieco





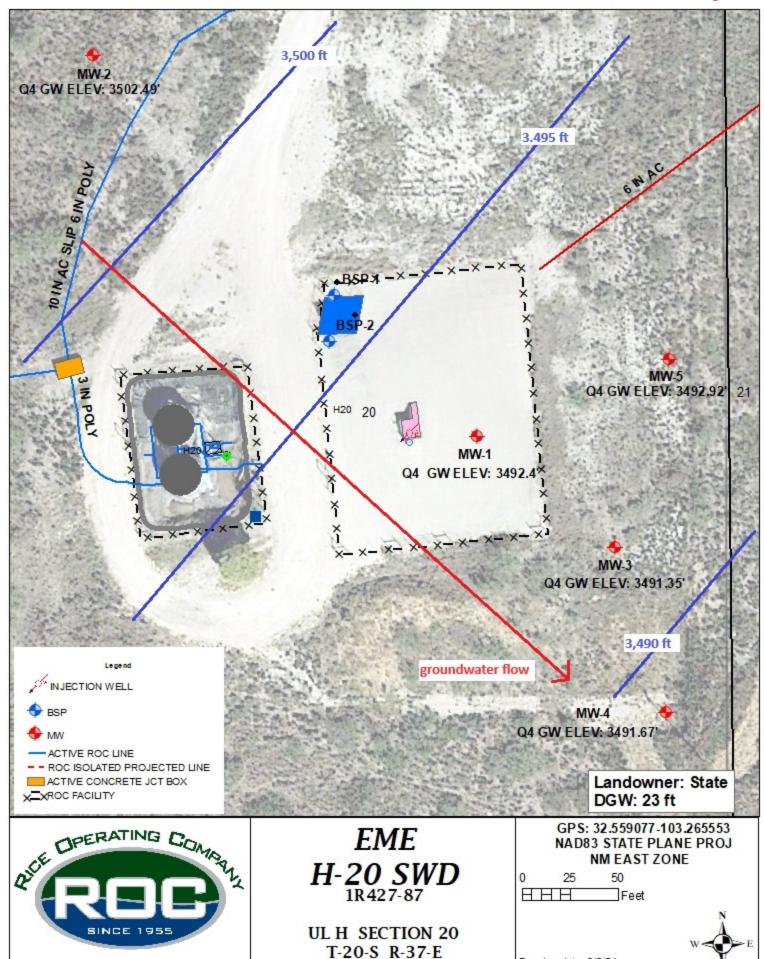
EME H-20 SWD 1R427-87

UL H SECTION 20 T-20-S R-37-E LEA COUNTY, NM GPS: 32.559077-103.265553 NAD83 STATE PLANE PROJ NM EAST ZONE



Drawing date: 2/3/20 Drafted by: T. Grieco

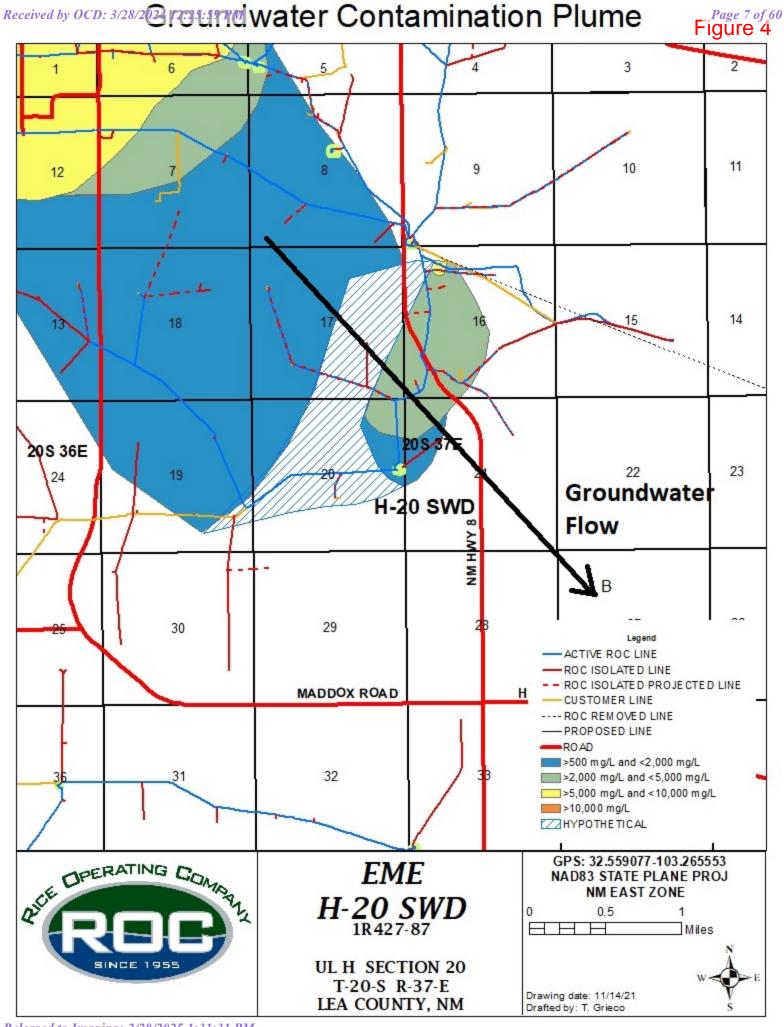


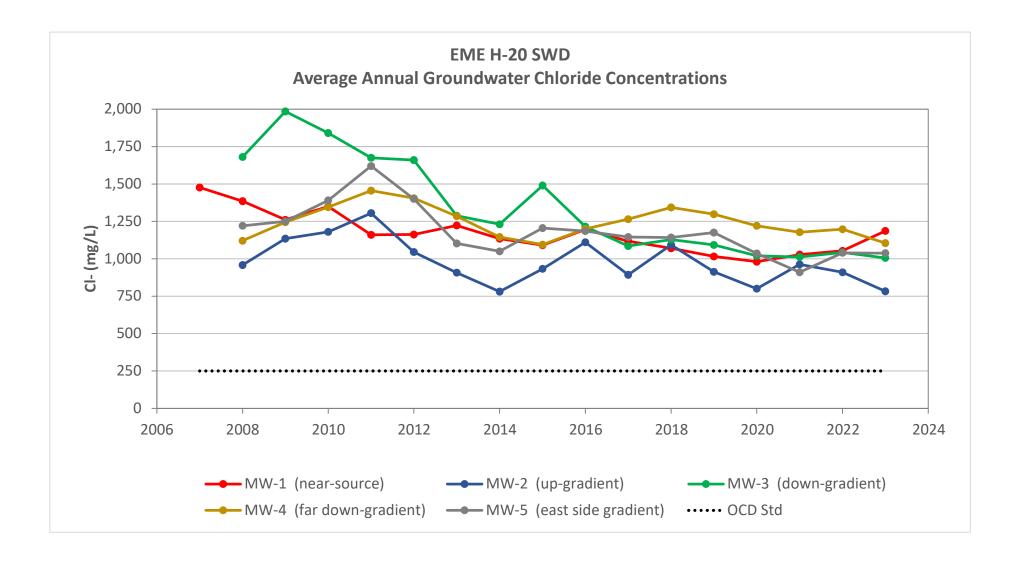


LEA COUNTY, NM

Drawing date: 3/6/24

Drafted by: T. Grieco





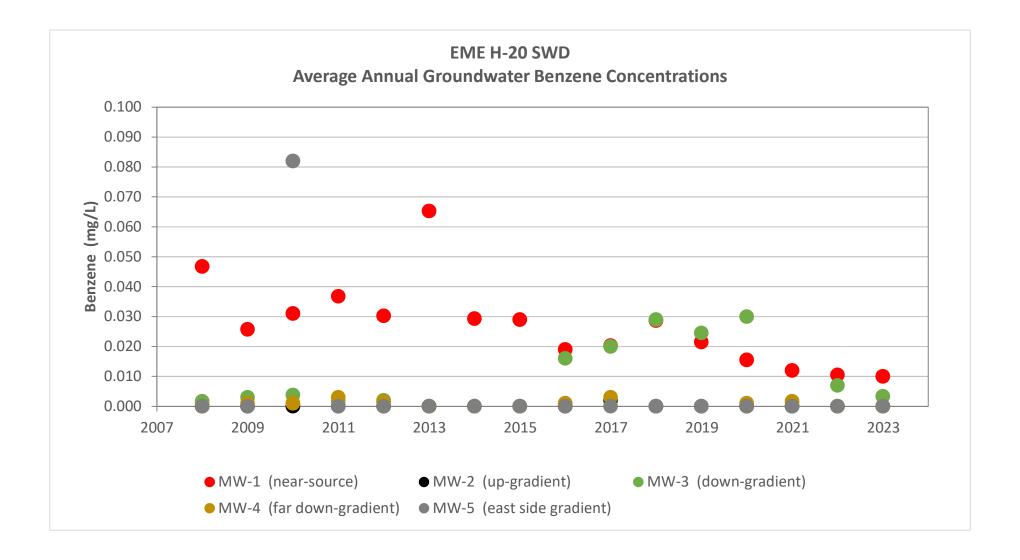
EME H-20 SWD Groundwater Chloride Concentrations Average Annual Values (mg/l)

	MW-1	MW-2	MW-3	MW-4	MW-5	
Year	(near-source)	(up-gradient)	(down-gradient)	(far down- gradient)	(east side gradient)	OCD Std
2007	1,476					250
2008	1,385	958	1,680	1,120	1,220	250
2009	1,260	1,135	1,985	1,245	1,250	250
2010	1,350	1,180	1,840	1,345	1,390	250
2011	1,160	1,305	1,675	1,455	1,620	250
2012	1,163	1,045	1,660	1,405	1,400	250
2013	1,223	908	1,288	1,285	1,103	250
2014	1,135	780	1,230	1,145	1,050	250
2015	1,090	932	1,490	1,095	1,205	250
2016	1,195	1,110	1,215	1,200	1,185	250
2017	1,118	893	1,085	1,265	1,145	250
2018	1,070	1,093	1,128	1,343	1,143	250
2019	1,015	913	1,093	1,298	1,175	250
2020	980	800	1,020	1,220	1,035	250
2021	1,028	963	1,013	1,178	910	250
2022	1,053	910	1,043	1,198	1,040	250
2023	1,187	783	1,005	1,105	1,038	250

Note:

A value of 4,050 mg/l for chloride was reported from the lab for MW-1 on 12/1/2023.

We have excluded this value from analysis as we believe it to be an error. However, we will follow this closely in subsequent quarters to determine if, in fact, this data point was not spurious.



EME H-20 SWD Groundwater Benzene Concentrations (mg/l) **Average Annual Values** (mg/l)

	MW-1	MW-2	MW-3	MW-4	MW-5
	(near-source)	(up- gradient)	(down- gradient)	(far down- gradient)	(east side gradient)
2008	0.0468	BD	0.0017	BD	BD
2009	0.0258	BD	0.0030	0.0010	BD
2010	0.0310	BD	0.0038	0.0010	0.0820
2011	0.0368	BD	0.0017	0.0030	BD
2012	0.0303	BD	0.0020	0.0015	BD
2013	0.0653	BD	BD	BD	BD
2014	0.0293	BD	BD	BD	BD
2015	0.0290	BD	BD	BD	BD
2016	0.0190	BD	0.0160	0.0010	BD
2017	0.0203	0.0020	0.0200	0.0030	BD
2018	0.0287	BD	0.0290	BD	BD
2019	0.0215	BD	0.0245	BD	BD
2020	0.0155	BD	0.0300	0.0010	BD
2021	0.0120	BD	BD	0.0017	BD
2022	0.0105	BD	0.0070	BD	BD
2023	0.0100	BD	0.0033	BD	BD

Note: BD indicates below the limits of laboratory detection.

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	22.89	34.95	7.8	25	4/23/2007	1,939	418 0.	4,343	0.06	<0.002	<0.002	<0.006	544	Clear
1	23.45	34.95	7.5	25	7/12/2007	1,230		3,660	0.0684	<0.005	0.0157	<0.002	644	Clear
1	23.54	34.95	7.4	25	11/1/2007	1,260	1,476	3,824	0.059	<0.002	0.006	<0.006	612	Gray to clear Strong odor 0.16 inches of product in well
1	23.37	34.95	7.5	25	1/18/2008	1,420		3,896	0.052	<0.005	<0.005	<0.015	653	Hydrocarbon present Gray to clear with strong odor
1	23.25	34.95	7.6	25	4/9/2008	1,380		3,890	0.032	0.001	0.004	<0.003	862	Gray to clear Strong odor Hydrocarbon present
1	24	34.95	7.1	25	7/21/2008	1,440		4,070	0.048	<0.02	<0.02	<0.06	794	Hydrocarbon present Gray to clear Strong odor
1	23.54	34.95	7.4	25	10/20/2008	1,300	1,385	3,920	0.055	0.002	0.004	<0.003	744	Hydrocarbon present Gray to clear Strong odor
1	23.22	34.96	7.6	25	2/5/2009	1,360		3,900	0.031	0.001	0.004	<0.003	753	Hydrocarbon present Gray to clear Strong odor
1	23.13	34.96	7.7	25	5/8/2009	1,220		3,850	0.031	<0.001	<0.001	<0.003	746	Hydrocarbon present Gray to clear Strong odor
1	24.13	34.96	7	25	8/14/2009	1,180		3,690	0.024	<0.001	0.007	<0.003	694	Hydrocarbon present Gray to clear Strong odor
1	24.32	34.96	6.9	25	11/4/2009	1,280	1,260	3,840	0.017	<0.001	0.002	<0.003	631	Hydrocarbon present Gray to clear Strong odor
1	23.83	34.96	7.2	25	2/17/2010	1,360		3,800	0.03	<0.001	0.004	<0.003	946	Gray to Clear with Strong Odor
1	23.37	34.96	7.5	25	5/19/2010	1,280		3,950	0.006	<0.001	<0.001	<0.003	760	Hydrocarbon sheen Gray to clear Strong odor
1	23.11	34.96	7.7	25	8/11/2010	1,460		4,050	0.014	<0.001	0.003	<0.003	740	Hydrocarbon sheen Gray to clear Strong odor
1	23.58	34.96	7.4	25	11/4/2010	1,300	1,350	3,910	0.074	<0.002	0.004	<0.006	645	Hydrocarbon sheen Gray to clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	23.26	34.96	7.6	25	2/25/2011	1,160		3,800	0.033	0.002	0.004	0.003	756	Hydrocarbon sheen gray to clear with strong odor
1	23.51	34.96	7.4	25	5/20/2011	1,220		3,700	0.056	0.003	0.006	0.007	761	Hydrocarbon sheen gray to clear with strong odor
1	24.43	34.96	6.8	25	8/11/2011	1,080		3,640	0.034	<0.001	0.002	<0.003	779	Hydrocarbon sheen Gray to clear Strong odor
1	24.22	34.96	7	25	11/9/2011	1,180	1,160	3,580	0.024	<0.001	0.002	<0.003	827	Hydrocarbon sheen Gray to clear Strong odor
1	23.82	34.96	7.2	25	2/8/2012	1,170		3,650	0.028	<0.001	0.003	<0.003	807	Hydrocarbon sheen Gray to clear Strong odor
1	23.67	34.96	7.3	25	5/20/2012	1,100		3,500	0.027	<0.001	0.004	<0.003	639	Hydrocarbon sheen Gray to clear Strong odor
1	24.28	34.96	6.9	25	8/7/2012	1,160		3,660	0.04	0.002	0.008	<0.003	727	Hydrocarbon sheen Gray to clear Strong odor
1	24.09	34.96	7.1	25	10/31/2012	1,220	1,163	3,720	0.026	<0.001	<0.001	<0.003	686	Hydrocarbon sheen Gray to clear Strong odor
1	23.85	34.96	7.2	25	1/30/2013	1,180		3,750	0.044	<0.001	0.004	<0.003	547	Hydrocarbon sheen Gray to clear Strong odor
1	23.78	34.96	7.3	25	5/14/2013	1,230		3,860	0.082	0.002	0.008	<0.003	842	Hydrocarbon sheen Gray to clear Strong odor
1	24.16	34.96	7	25	8/14/2013	1,360		3,820	0.074	0.003	0.013	<0.003	788	Hydrocarbon sheen Gray to clear Strong odor
1	24.29	34.96	6.9	25	10/31/2013	1,120	1,223	3,830	0.061	<0.001	<0.001	<0.003	832	Hydrocarbon sheen Gray to clear Strong odor
1	23.87	34.96	7.2	25	2/18/2014	1,100		3,720	0.038	<0.001	0.003	<0.003	815	Hydrocarbon sheen Gray to clear Strong odor
1	23.77	34.96	7.3	25	4/24/2014	1,080		3,760	0.037	<0.001	0.003	<0.003	785	Hydrocarbon sheen Gray to clear Strong odor
1	24.74	34.96	6.6	25	7/31/2014	1,060		3,510	0.013	<0.001	0.002	<0.003	626	Hydrocarbon sheen Gray to clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	24.72	34.96	6.7	25	11/6/2014	1,300	1,135	4,340	<0.001	<0.001	<0.001	<0.003	983	Hydrocarbon sheen Gray to Clear Strong odor PSH Sock Changed
1	23.52	34.96	7.4	25	2/12/2015	1,030		3,500	0.029	<0.001	0.001	<0.003	789	Hydrocarbon sheen Gray to clear Strong odor PSH Sock Changed
1	23.22	34.96	7.6	25	5/6/2015	1,120		3,790	<0.001	<0.001	<0.001	<0.003	812	Hydrocarbon sheen Gray to clear Strong odor
1	23.83	34.96	7.2	25	8/11/2015	1,090		4,120	<0.001	<0.001	<0.001	<0.003	759	Hydrocarbon sheen Gray to clear Strong odor
1	23.64	34.96	7.4	25	11/5/2015	1,120	1,090	3,790	<0.001	<0.001	<0.001	<0.003	728	Hydrocarbon sheen
1	23.24	34.96	7.6	25	2/10/2016	1,040		3,690	0.024	<0.001	<0.001	<0.003	746	Hydrocarbon sheen Gray to clear Strong odor
1	23.01	34.96	7.8	25	5/9/2016	1,300		3,880	<0.001	<0.001	<0.001	<0.003	768	Hydrocarbon sheen Gray to clear Strong odor
1	23.66	34.96	7.3	25	9/8/2016	1,200		3,560	0.010	<0.001	0.001	0.012	830	Hydrocarbon sheen Gray to clear Strong odor
1	23.21	34.96	7.6	25	11/8/2016	1,240	1,195	3,620	0.023	0.004	0.003	0.030	819	Hydrocarbon sheen Gray to clear Strong odor
1	23.01	38.96	7.8	25	2/16/2017	1,240		3,690	0.001	<0.001	<0.001	<0.003	888	Hydrocarbon sheen Gray to clear Strong odor
1	22.74	38.96	7.9	25	4/28/2017	1,040		3,520	0.014	<0.001	0.002	<0.003	884	Hydrocarbon sheen Gray to clear Strong odor
1	23.41	38.96	7.9	25	9/5/2017	1,200		3,890	0.037	<0.001	0.007	<0.003	865	Hydrocarbon sheen Gray to clear Strong odor
1	23.38	38.96	7.9	25	11/8/2017	990	1,118	3,560	0.029	<0.001	0.005	<0.003	840	Hydrocarbon sheen Gray to clear Strong odor
1	22.84	34.96	7.9	25	2/23/2018	1,040		3,220	0.018	<0.001	0.003	<0.003	847	Hydrocarbon sheen Gray to clear Strong odor
1	23.02	34.96	7.8	25	5/8/2018	1,240		3,780	<0.001	<0.001	<0.001	<0.003	945	Hydrocarbon sheen Gray to clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	24.18	34.96	7	25	8/30/2018	1,020		3,400	0.036	<0.001	0.006	<0.003	804	Hydrocarbon sheen Gray to clear Strong odor
1	23.57	34.96	7.4	25	11/8/2018	980	1,070	3,060	0.032	0.001	0.005	<0.003	980	Hydrocarbon sheen Gray to clear Strong odor
1	23.09	38.96	7.7	25	2/27/2019	1,080		3,100	0.002	<0.001	<0.001	<0.003	1,000	Hydrocarbon sheen Gray to clear Strong odor
1	23.12	38.96	7.7	25	5/22/2019	990		3,430	0.019	<0.001	<0.001	<0.003	836	Hydrocarbon sheen Gray to clear Strong odor
1	24.02	38.96	7.1	25	8/26/2019	930		3,360	0.043	<0.001	0.006	<0.003	1,090	Hydrocarbon sheen Gray to clear Strong odor
1	23.32	38.96	7.6	25	11/13/2019	1,060	1,015	3,490	0.022	<0.001	0.004	<0.003	681	Hydrocarbon sheen Gray to clear Strong odor
1	23.21	34.96	7.6	25	3/2/2020	1,000		3,420	0.001	<0.001	<0.001	<0.003	1,500	Hydrocarbon sheen Gray to clear Strong odor
1	24.45	34.96	6.8	25	9/8/2020	960	980	3,330	0.030	<0.001	0.005	<0.003	489	Hydrocarbon sheen Gray to clear Strong odor
1	23.89	38.96	7.2	25	3/4/2021	1,040		3,400	0.001	<0.001	<0.001	<0.003	744	Hydrocarbon sheen Gray to clear Strong odor
1	23.93	38.96	7.2	25	6/8/2021	920		3,300	0.030	0.002	0.006	<0.003	612	Hydrocarbon sheen Gray to clear Strong odor
1	24.35	38.96	6.9	25	9/7/2021	1,100		3,460	<0.001	0.003	<0.001	<0.003	939	Hydrocarbon sheen Gray to clear Strong odor
1	23.91	38.96	7.2	25	11/4/2021	1,050	1,028	3,410	0.005	<0.001	<0.001	<0.003	920	Hydrocarbon sheen Gray to clear Strong odor
1	24.12	38.96	7	25	2/24/2022	1,100		3,300	0.001	<0.001	<0.001	<0.003	770	Hydrocarbon sheen Gray to clear Strong odor
1	24.56	38.96	6.8	25	6/3/2022	1,160		3,360	0.020	<0.001	0.002	<0.003	738	Hydrocarbon sheen Gray to clear Strong odor
1	24.9	38.96	6.5	25	8/30/2022	1,000		3,470	<0.001	<0.001	<0.001	<0.003	800	Hydrocarbon sheen Gray to clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	24.55	38.96	6.8	25	11/10/2022	950	1,053	3,460	<0.001	<0.001	<0.001	<0.003	843	Hydrocarbon sheen Gray to clear Strong odor
1	24.01	34.96	7.1	25	3/13/2023	1,040		3,450	<0.001	<0.001	<0.001	<0.003	788	Hydrocarbon sheen Gray to clear Strong odor
1	23.93	34.96	7.2	25	6/1/2023	1,080		3,440	0.005	<0.001	<0.001	<0.003	939	Hydrocarbon sheen Gray to clear Strong odor
1	23.9	34.96	7.2	25	8/15/2023	1,440	1,187	3,720	<0.001	<0.001	<0.001	<0.003	/4)	Hydrocarbon sheen Gray to clear Strong odor
1	24.41	34.96	6.9	25	12/1/2023	4,050	1,903	6,830	0.015	<0.001	0.001	<0.003	159	Hydrocarbon sheen Gray to clear Strong odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	23.94	33.4	1.5	5	1/18/2008	980	avg ci	3,205	<0.001	<0.001	<0.001	<0.003	746	Clear Slight odor
2	23.8	33.4	1.5	5	4/9/2008	840		2,990	<0.001	<0.001	<0.001	<0.003	988	Clear Slight odor
2	24.6	33.4	1.4	5	7/21/2008	1,000		3,210	<0.002	<0.002	<0.002	<0.006	796	Clear Slight odor
2	24.29	33.4	1.5	5	10/20/2008	1,010	958	3,270	<0.001	<0.001	<0.001	<0.003	762	Clear Slight odor
2	23.99	33.48	1.5	5	2/5/2009	1,080		3,510	<0.001	<0.001	<0.001	<0.003	815	Clear Slight odor
2	23.87	33.48	1.5	5	5/8/2009	1,120		3,480	<0.001	<0.001	<0.001	<0.003	772	Clear Slight odor
2	24.83	33.48	1.4	5	8/14/2009	1,140		3,550	<0.001	<0.001	<0.001	<0.003	750	Clear Slight odor
2	24.97	33.48	1.4	5	11/4/2009	1,200	1,135	3,570	<0.001	<0.001	<0.001	<0.003	564	Clear Slight odor
2	24.49	33.48	1.4	5	2/17/2010	1,080		3,480	<0.001	<0.001	<0.001	<0.003	929	Clear Slight odor
2	24.09	33.48	1.5	5	5/19/2010	1,180		3,670	<0.001	<0.001	<0.001	<0.003	841	Clear Slight odor
2	23.85	33.48	1.5	5	8/11/2010	1,120		3,520	<0.001	<0.001	<0.001	<0.003	783	Clear Slight odor
2	24.15	33.48	1.5	5	11/4/2010	1,340	1,180	4,210	<0.001	<0.001	<0.001	<0.003	1020	Clear Slight odor
2	23.92	33.49	1.5	6	2/25/2011	1,680		3,390	<0.001	<0.001	<0.001	<0.003	761	Clear Slight odor
2	24.06	33.49	1.5	6	5/20/2011	1,120		3,360	<0.001	<0.001	<0.001	<0.003	724	Clear Slight odor
2	24.88	33.49	1.4	6	8/11/2011	1,140		3,470	<0.001	<0.001	<0.001	<0.003	845	Clear Slight odor
2	24.44	33.49	1.4	6	11/9/2011	1,280	1,305	3,680	<0.001	<0.001	<0.001	<0.003	788	Clear Slight odor
2	24.49	33.49	1.4	6	2/8/2012	1,060		3,290	<0.001	<0.001	<0.001	<0.003	702	Clear Slight odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	24.31	33.49	1.5	6	5/20/2012	1,040	418 01	3,270	<0.001	<0.001	<0.001	<0.003	695	Clear Slight odor
2	24.88	33.49	1.4	6	8/7/2012	1,020		3,230	<0.001	<0.001	<0.001	<0.003	749	Clear Slight odor
2	24.81	33.49	1.4	6	10/31/2012	1,060	1,045	3,300	<0.001	<0.001	<0.001	<0.003	692	Clear Slight odor
2	24.53	33.49	1.4	6	1/30/2013	1,040		3,220	<0.001	<0.001	<0.001	<0.003	626	Clear Slight odor
2	24.34	33.49	1.5	6	5/15/2013	960		3,230	<0.001	<0.001	<0.001	<0.003	874	Clear Slight odor
2	24.83	33.49	1.4	6	8/14/2013	860		3,010	<0.001	<0.001	<0.001	<0.003	668	Clear Slight odor
2	24.93	33.49	1.4	6	10/31/2013	770	908	2,900	<0.001	<0.001	<0.001	<0.003	670	Clear Slight odor
2	24.54	33.49	1.4	6	2/18/2014	740		2,710	<0.001	<0.001	<0.001	<0.003	664	Clear Slight odor
2	24.39	33.49	1.5	6	4/24/2014	830		2,890	<0.001	<0.001	<0.001	<0.003	638	Clear Slight odor
2	25.28	33.49	1.3	6	7/31/2014	730		2,720	<0.001	<0.001	<0.001	<0.003	646	Clear Slight odor
2	24.53	33.49	1.4	6	11/6/2014	820	780	2,910	<0.001	<0.001	<0.001	<0.003	539	Clear Slight odor
2	24.29	33.49	1.5	6	2/12/2015	950		3,010	<0.001	<0.001	<0.001	<0.003	703	Clear Slight odor
2	23.98	33.49	1.5	6	5/6/2015	860		3,070	<0.001	<0.001	<0.001	<0.003	605	Clear Slight odor
2	24.58	33.49	1.4	6	8/11/2015	939		3,250	<0.001	<0.001	<0.001	<0.003	479	Clear Slight odor
2	24.33	33.49	1.47	6	11/5/2015	980	932	3,490	<0.001	<0.001	<0.001	<0.003	691	Clear Slight odor
2	23.96	33.49	1.5	6	2/10/2016	1,160		3,800	<0.001	<0.001	<0.001	<0.003	720	Clear Slight odor
2	23.79	33.49	1.6	6	5/9/2016	1,160		3,670	<0.001	<0.001	<0.001	<0.003	892	Clear Slight odor
2	24.37	33.49	1.5	6	9/8/2016	1,160		3,700	<0.001	<0.001	<0.001	<0.003	826	Clear Slight odor
2	23.93	33.49	1.5	6	11/8/2016	960	1,110	3,080	<0.001	<0.001	<0.001	<0.003	716	Clear Slight odor
2	23.67	33.49	1.6	6	2/16/2017	920		2,900	<0.001	<0.001	<0.001	<0.003	771	Clear Slight odor
2	23.47	33.49	1.6	6	4/28/2017	900		2,980	<0.001	<0.001	<0.001	<0.003	802	Clear Slight odor
2	24.06	33.49	1.6	6	9/5/2017	920		3,110	<0.001	<0.001	<0.001	<0.003	713	Clear Slight odor
2	24.01	33.49	1.6	6	11/8/2017	830	893	3,030	0.002	<0.001	<0.001	<0.003	705	Clear Slight odor
2	23.53	33.49	1.6	6	2/23/2018	1,070		3,110	<0.001	<0.001	<0.001	<0.003	776	Clear Slight odor
2	23.59	33.49	1.6	6	5/8/2018	1,240		3,780	<0.001	<0.001	<0.001	<0.003	945	Clear Slight odor
2	24.73	33.49	1.4	6	8/30/2018	1,080		3,370	<0.001	<0.001	<0.001	<0.003	838	Clear Slight odor
2	24.19	33.49	1.5	6	11/8/2018	980	1,093	2,240	<0.001	<0.001	<0.001	<0.003	926	Clear Slight odor
2	23.78	33.49	1.6	6	2/27/2019	950		2,700	<0.001	<0.001	<0.001	<0.003	871	Clear Slight odor
2	23.74	33.49	1.6	6	5/22/2019	1,000		3,220	<0.001	<0.001	<0.001	<0.003	800	Clear Slight odor
2	24.78	33.49	1.4	6	8/26/2019	870		2,850	<0.001	<0.001	<0.001	<0.003	1,170	Clear Slight odor
2	24.44	33.49	1.4	6	11/13/2019	830	913	2,920	<0.001	<0.001	<0.001	<0.003	670	Clear Slight odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	Cl	ann.	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged			avg Cl				Benzene	Xylenes		
2	23.88	33.49	1.5	6	3/2/2020	800		2,840	<0.001	<0.001	<0.001	<0.003	885	Clear Slight odor
2	24.98	33.49	1.4	6	9/8/2020	800	800	2,830	<0.001	<0.001	<0.001	<0.003	545	Clear Slight odor
2	24.53	33.49	1.4	6	3/4/2021	900		2,830	<0.001	<0.001	<0.001	<0.003	730	Clear Slight odor
2	24.56	33.49	1.4	6	6/8/2021	1,000		3,010	<0.001	<0.001	<0.001	<0.003	636	Clear Slight odor
2	25.02	33.49	1.4	6	9/7/2021	1,000		3,080	<0.001	<0.001	<0.001	<0.003	881	Clear Slight odor
2	24.53	33.49	1.4	6	11/4/2021	950	963	3,020	<0.001	<0.001	<0.001	<0.003	843	Clear Slight odor
2	24.77	33.49	1.4	6	2/24/2022	1,040		3,070	<0.001	<0.001	<0.001	<0.003	728	Clear Slight odor
2	25.18	33.49	1.3	6	6/3/2022	1,120		3,020	<0.001	<0.001	<0.001	<0.003	872	Clear Slight odor
2	24.2	33.49	1.5	6	8/30/2022	840		2,730	<0.001	<0.001	<0.001	<0.003	572	Clear Slight odor
2	25.18	33.49	1.3	6	11/10/2022	640	910	2,590	<0.001	<0.001	<0.001	<0.003	628	Clear Slight odor
2	24.7	33.49	1.4	6	3/13/2023	880		2,720	<0.001	<0.001	<0.001	<0.003	546	Clear Slight odor
2	24.57	33.49	1.4	6	6/1/2023	790		2,750	<0.001	<0.001	<0.001	<0.003	706	Clear Slight odor
2	24.55	33.49	1.4	6	8/15/2023	880		2,510	<0.001	<0.001	<0.001	<0.003	502	Clear Slight odor
2	15.06	33.49	2.9	6	12/1/2023	580	783	1,260	<0.001	<0.001	<0.001	<0.003	128	Clear Slight odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	23.38	33.75	1.7	5	1/18/2008	1,420		4,175	0.002	<0.001	0.002	<0.003	670	RISER HAS BEEN HIT Clear Strong odor
3	23.8	33.75	1.6	5	4/9/2008	1,220		3,720	0.002	<0.001	0.002	<0.003	1070	Clear Strong odor RISER HAS BEEN REPLACED
3	24.14	33.75	1.5	5	7/21/2008	2,140		5,570	<0.002	<0.002	<0.002	<0.006	978	Clear Strong odor
3	23.74	33.75	1.6	6	10/20/2008	1,940	1,680	5,170	0.001	<0.001	<0.001	<0.003	890	Clear Strong odor
3	23.4	33.74	1.7	6	2/5/2009	1,480		4,330	<0.001	<0.001	<0.001	<0.003	837	Clear Strong odor
3	23.31	33.74	1.7	6	5/8/2009	1,840		4,800	<0.001	<0.001	<0.001	<0.003	802	Clear Strong odor
3	24.39	33.74	1.5	6	8/14/2009	2,570		6,580	0.002	0.001	<0.001	<0.003	1060	Clear Strong odor
3	24.52	33.74	1.5	6	11/4/2009	2,050	1,985	4,890	0.004	<0.001	<0.001	<0.003	804	Clear Strong odor
3	23.95	33.75	1.6	6	2/17/2010	1,420		4,200	0.005	<0.001	<0.001	<0.003	1050	Clear Strong odor
3	23.52	33.75	1.6	6	5/19/2010	1,640		4,680	0.005	<0.001	<0.001	<0.003	974	Clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	23.36	33.75	1.7	6	8/11/2010	2,150		5,430	0.002	<0.001	<0.001	<0.003	962	Hydrocarbon sheen Clear Strong odor
3	23.77	33.75	1.6	6	11/4/2010	2,150	1,840	5,760	0.003	<0.001	<0.001	<0.003	1190	Hydrocarbon sheen Clear Strong odor
3	23.39	33.75	1.7	6	2/25/2011	1,580		4,540	0.002	<0.001	<0.001	<0.003	933	Hydrocarbon sheen Clear Strong odor
3	23.72	33.75	1.6	6	5/20/2011	1,880		5,050	0.002	<0.001	<0.001	<0.003	967	Hydrocarbon sheen Clear Strong odor
3	24.62	33.75	1.5	6	8/11/2011	1,580		4,880	<0.001	<0.001	<0.001	<0.003	870	Hydrocarbon sheen Clear Strong odor
3	24.38	33.75	1.5	6	11/9/2011	1,660	1,675	4,550	0.001	<0.001	0.002	<0.003	904	Hydrocarbon sheen Clear Strong odor
3	23.98	33.75	1.6	6	2/8/2012	1,480		4,090	0.003	<0.001	<0.001	<0.003	835	Hydrocarbon sheen Clear Strong odor
3	23.82	33.75	1.6	6	5/20/2012	1,400		3,890	0.001	<0.001	<0.001	<0.003	740	Hydrocarbon sheen Clear Strong odor
3	24.48	33.75	1.5	6	8/7/2012	1,920		5,120	0.002	0.003	0.002	<0.003	833	Hydrocarbon sheen Clear Strong odor
3	24.28	33.75	1.5	6	10/31/2012	1,840	1,660	4,830	<0.001	<0.001	<0.001	<0.003	913	Hydrocarbon sheen Clear Strong odor
3	24.03	33.75	1.6	6	1/30/2013	1,240		3,850	<0.001	<0.001	<0.001	<0.003	803	Hydrocarbon sheen Clear Strong odor
3	23.81	33.75	1.6	6	5/14/2013	1,250		3,720	<0.001	<0.001	<0.001	<0.003	885	Hydrocarbon sheen Clear Strong odor
3	24.41	33.75	1.5	6	8/14/2013	1,580		4,720	<0.001	0.001	<0.001	<0.003	976	Hydrocarbon sheen Clear Strong odor
3	24.43	33.75	1.5	6	10/31/2013	1,080	1,288	3,540	<0.001	<0.001	<0.001	<0.003	771	Hydrocarbon sheen Clear Strong odor
3	24.04	33.75	1.6	6	2/18/2014	1,040		3,440	<0.001	<0.001	<0.001	<0.003	808	Hydrocarbon sheen Clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	23.81	33.75	1.6	6	4/24/2014	1,020		3,560	<0.001	<0.001	<0.001	<0.003	735	Hydrocarbon sheen Clear Strong odor
3	24.93	33.75	1.4	6	7/31/2014	1,080		3,750	<0.001	<0.001	<0.001	<0.003	852	Hydrocarbon sheen Clear Strong odor
3	23.93	33.75	1.6	6	11/6/2014	1,780	1,230	4,910	<0.001	<0.001	<0.001	<0.003	889	Hydrocarbon sheen Gray to clear Strong odor
3	23.73	33.75	1.6	6	2/12/2015	1,520		4,830	<0.001	<0.001	<0.001	<0.003	1,120	Hydrocarbon sheen Clear Strong odor
3	23.42	33.75	1.7	6	5/6/2015	1,260		3,900	<0.001	<0.001	<0.001	<0.003	939	Hydrocarbon sheen Clear Strong odor
3	24.19	33.75	1.5	6	8/11/2015	1,660		5,050	<0.001	<0.001	<0.001	<0.003	651	Hydrocarbon sheen Clear Strong odor
3	23.94	33.75	1.5	6	11/5/2015	1,520	1,490	5,110	<0.001	<0.001	<0.001	<0.003	915	Hydrocarbon sheen Clear Strong odor
3	23.58	33.75	1.6	6	2/10/2016	1,280		3,980	<0.001	<0.001	<0.001	<0.003	768	Hydrocarbon sheen Clear Strong odor
3	23.22	33.75	1.7	6	5/9/2016	1,380		3,910	<0.001	<0.001	<0.001	<0.003	829	Hydrocarbon sheen Clear Strong odor
3	23.74	33.75	1.6	6	9/8/2016	1,060		3,680	0.006	<0.001	<0.001	<0.003	829	Hydrocarbon sheen Clear Strong odor
3	23.29	33.75	1.7	6	11/8/2016	1,140	1,215	3,350	0.026	<0.001	0.005	0.003	808	Hydrocarbon sheen Clear Strong odor
3	23.03	33.75	1.7	6	2/16/2017	1,140		3,670	0.001	<0.001	<0.001	<0.003	928	Hydrocarbon sheen Clear Strong odor
3	22.77	33.75	1.8	6	4/28/2017	1,108		3,680	0.023	<0.001	0.003	<0.003	999	Hydrocarbon sheen Clear Strong odor
3	23.57	33.75	1.8	6	9/5/2017	1,060		3,230	0.041	<0.001	0.006	<0.003	707	Hydrocarbon sheen Clear Strong odor
3	23.53	33.75	1.8	6	11/8/2017	1,030	1,085	3,770	0.015	<0.001	0.002	<0.003	856	Hydrocarbon sheen Clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	22.95	33.75	1.7	6	2/23/2018	990		3,290	0.018	<0.001	0.002	<0.003	948	Hydrocarbon sheen Clear Strong odor
3	23.09	33.75	1.7	6	5/8/2018	1,340		3,580	<0.001	<0.001	0.002	<0.003	999	Hydrocarbon sheen Clear Strong odor
3	24.42	33.75	1.5	6	8/30/2018	1,080		3,560	0.034	<0.001	0.006	<0.003	806	Hydrocarbon sheen Clear Strong odor
3	23.93	33.75	1.6	6	11/8/2018	1,100	1,128	3,340	0.035	<0.001	0.002	<0.003	1,370	Hydrocarbon sheen Clear Strong odor
3	23.19	33.75	1.7	6	2/27/2019	1,200		3,300	0.007	<0.001	<0.001	<0.003	1,080	Hydrocarbon sheen Clear Strong odor
3	23.2	33.75	1.7	6	5/22/2019	1,090		3,670	0.006	<0.001	<0.001	<0.003	920	Hydrocarbon sheen Clear Strong odor
3	24.24	33.75	1.5	6	8/26/2019	1,040		3,460	0.068	0.002	0.003	<0.003	1,150	Hydrocarbon sheen Clear Strong odor
3	23.97	33.75	1.6	6	11/13/2019	1,040	1,093	3,540	0.017	<0.001	0.003	<0.003	724	Hydrocarbon sheen Clear Strong odor
3	23.31	33.75	1.7	6	3/2/2020	1,060		3,420	0.002	<0.001	0.003	<0.003	1,580	Hydrocarbon sheen Clear Strong odor
3	24.61	33.75	1.5	6	9/8/2020	980	1,020	3,340	0.058	<0.001	0.012	<0.003	582	Hydrocarbon sheen Clear Strong odor
3	24.16	33.75	1.5	6	3/4/2021	1,080		3,380	0.001	<0.001	<0.001	<0.003	860	Hydrocarbon sheen Clear Strong odor
3	24.2	33.75	1.5	6	6/8/2021	960		3,500	0.013	<0.001	0.002	<0.003	738	Hydrocarbon sheen Clear Strong odor
3	24.55	33.75	1.5	6	9/7/2021	1,060		3,460	0.002	0.002	<0.001	<0.003	996	Hydrocarbon sheen Clear Strong odor
3	24.18	33.75	1.5	6	11/4/2021	950	1,013	3,350	<0.001	<0.001	<0.001	<0.003	930	Hydrocarbon sheen Clear Strong odor
3	24.55	33.75	1.5	6	2/24/2022	1,120		3,400	0.001	<0.001	<0.001	<0.003	783	Hydrocarbon sheen Clear Strong odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	24.8	33.75	1.4	6	6/3/2022	1,120		3,280	0.013	<0.001	0.002	<0.003	949	Hydrocarbon sheen Clear Strong odor
3	25.29	33.75	1.4	6	8/30/2022	1,090		3,480	<0.001	<0.001	<0.001	<0.003	730	Hydrocarbon sheen Clear Strong odor
3	24.72	33.75	1.4	6	11/10/2022	840	1,043	3,370	<0.001	<0.001	<0.001	<0.003	802	Hydrocarbon sheen Clear Strong odor
3	24.18	33.75	1.5	6	3/13/2023	1,100		3,380	0.003	<0.001	<0.001	<0.003	849	Hydrocarbon sheen Clear Strong odor
3	24.06	33.75	1.6	6	6/1/2023	1,000		3,240	0.005	<0.001	<0.001	<0.003	797	Hydrocarbon sheen Clear Strong odor
3	24.03	33.75	1.6	6	8/15/2023	900		2,850	<0.001	<0.001	<0.001	<0.003	752	Hydrocarbon sheen Clear Strong odor
3	24.58	33.75	1.5	6	12/1/2023	1,020	1,005	3,360	0.002	<0.001	<0.001	<0.003	8/4	Hydrocarbon sheen Clear Strong odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
4	22.39	33.92	1.8	6	10/20/2008	1,120	1,120	3,700	<0.001	<0.001	<0.001	<0.003	812	Clear Slight odor
4	22.08	34.33	2	6	2/5/2009	1,200		3,640	<0.001	<0.001	<0.001	<0.003	746	Clear Slight odor
4	22	34.33	2	8	5/8/2009	1,340		3,720	<0.001	<0.001	<0.001	<0.003	694	Clear Slight odor
4	23.12	34.33	1.8	8	8/14/2009	1,240		3,770	<0.001	<0.001	<0.001	<0.003	648	Clear Slight odor
4	23.19	34.33	1.8	8	11/4/2009	1,200	1,245	3,710	0.001	<0.001	0.004	<0.003	555	Clear Slight odor
4	22.62	34.34	1.9	8	2/17/2010	1,380		3,920	<0.001	<0.001	<0.001	<0.003	825	Clear Slight odor
4	22.22	34.34	1.9	8	5/19/2010	1,340		3,750	<0.001	<0.001	<0.001	<0.003	760	Clear Slight odor
4	22.04	34.34	2	8	8/11/2010	1,380		3,870	<0.001	<0.001	<0.001	<0.003	692	Clear Slight odor
4	22.49	34.34	1.9	8	11/4/2010	1,280	1,345	3,610	0.001	<0.001	<0.001	<0.003	698	Clear Slight odor
4	22.09	34.36	2	8	2/25/2011	1,440		4,160	<0.001	<0.001	<0.001	<0.003	800	Clear No odor
4	22.43	34.36	1.9	8	5/20/2011	1,500		4,000	<0.001	<0.001	<0.001	<0.003	781	Clear Slight odor
4	23.38	34.36	1.8	8	8/11/2011	1,400		4,080	0.004	<0.001	<0.001	<0.003	544	Clear Slight odor
4	23.08	34.36	1.8	8	11/9/2011	1,480	1,455	4,030	0.002	<0.001	<0.001	<0.003	771	Clear Slight odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
4	22.65	34.36	1.9	8	2/8/2012	1,500	avg Ci	4,150	0.002	<0.001	<0.001	<0.003	808	Clear Slight odor
4	22.49	34.36	1.9	8	5/20/2012	1,360		3,990	<0.001	<0.001	<0.001	<0.003	910	Clear Slight odor
4	23.23	34.36	1.8	8	8/7/2012	1,360		3,960	0.001	<0.001	<0.001	<0.003	792	Clear Slight odor
4	22.96	34.36	1.8	8	10/31/2012	1,400	1,405	4,090	<0.001	<0.001	<0.001	<0.003	773	Clear Slight odor
4	22.68	34.36	1.9	8	1/30/2013	1,220	_,	4,000	<0.001	<0.001	<0.001	<0.003	638	Clear Slight odor
4	22.49	34.36	1.9	8	5/14/2013	1,340		4,060	<0.001	<0.001	<0.001	<0.003	854	Clear Slight odor
4	23.13	34.36	1.8	8	8/14/2013	1,400		4,060	<0.001	<0.001	<0.001	<0.003	878	Clear Slight odor
4	23.12	34.36	1.8	8	10/31/2013		1,285	3,730	<0.001	<0.001	<0.001	<0.003	780	Clear Slight odor
4	22.73	34.36	1.9	8	2/18/2014	1,200	•	3,510	<0.001	<0.001	<0.001	<0.003	765	Clear Slight odor
4	22.59	34.36	1.9	8	4/24/2014	1,240		3,630	<0.001	<0.001	<0.001	<0.003	593	Clear Slight odor
4	23.68	34.36	1.7	8	7/31/2014	1,220		3,740	<0.001	<0.001	<0.001	<0.003	758	Clear Slight odor
4	22.62	34.36	1.9	8	11/6/2014	920	1,145	3,410	<0.001	<0.001	<0.001	<0.003	501	Clear Slight odor
4	22.38	34.36	1.9	8	2/12/2015	1,080		3,520	<0.001	<0.001	<0.001	<0.003	784	Clear Slight odor
4	22.15	34.36	2	8	5/6/2015	1,040		3,420	<0.001	<0.001	<0.001	<0.003	719	Clear Slight odor
4	22.98	34.36	1.8	8	8/11/2015	1,120		3,930	<0.001	<0.001	<0.001	<0.003	580	Clear Slight odor
4	22.72	34.36	1.8	8	11/5/2015	1,140	1,095	3,640	<0.001	<0.001	<0.001	<0.003	782	Clear Slight odor
4	22.21	34.36	1.9	8	2/10/2016	1,080		3,520	<0.001	<0.001	<0.001	<0.003	703	Clear Slight odor
4	21.94	34.36	2.0	8	5/9/2016	1,140		3,460	<0.001	<0.001	<0.001	<0.003	797	Clear Slight odor
4	22.42	34.36	1.9	8	9/8/2016	1,260		3,800	<0.001	<0.001	<0.001	<0.003	693	Clear Slight odor
4	21.98	34.36	2.0	8	11/8/2016	1,320	1,200	3,610	0.001	<0.001	<0.001	<0.003	732	Clear Slight odor
4	21.81	34.36	2	8	2/16/2017	1,160		3,680	<0.001	<0.001	<0.001	<0.003	960	Clear Slight odor
4	21.58	34.36	2	8	4/28/2017	1,200		3,780	<0.001	<0.001	<0.001	<0.003	856	Clear Slight odor
4	22.29	34.36	2	8	9/5/2017	1,340		4,040	<0.001	<0.001	<0.001	<0.003	798	Clear Slight odor
4	22.26	34.36	2	8	11/8/2017	1,360	1,265	3,930	0.003	<0.001	<0.001	<0.003	903	Clear Slight odor
4	21.66	34.36	2	8	2/23/2018	1,170		3,470	<0.001	<0.001	<0.001	<0.003	863	Clear Slight odor
4	21.8	34.36	2	8	5/8/2018	1,500		3,730	<0.001	<0.001	<0.001	<0.003	892	Clear Slight odor
4	23.15	34.36	1.8	8	8/30/2018	1,460		4,030	<0.001	<0.001	<0.001	<0.003	956	Clear Slight odor
4	22.35	34.36	1.9	8	11/8/2018	1,240	1,343	2,800	<0.001	<0.001	<0.001	<0.003	968	Clear Slight odor
4	21.91	34.36	2	8	2/27/2019	1,400		3,790	<0.001	<0.001	<0.001	<0.003	1,080	Clear Slight odor
4	21.97	34.36	2	8	5/22/2019	1,230		3,650	<0.001	<0.001	<0.001	<0.003	908	Clear Slight odor
4	23.22	34.36	1.8	8	8/26/2019	1,240		3,970	<0.001	<0.001	<0.001	<0.003	742	Clear Slight odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
4	22.65	34.36	1.9	8	11/13/2019	1,320	1,298	3,910	<0.001	<0.001	<0.001	<0.003	756	Clear Slight odor
4	22.01	34.36	2	8	3/2/2020	1,220		3,850	<0.001	0.001	<0.001	<0.003	1,940	Clear Slight odor
4	23.93	34.36	1.7	8	9/8/2020	1,220	1,220	3,660	0.001	<0.001	<0.001	<0.003	709	Clear Slight odor
4	22.68	34.36	1.9	8	3/4/2021	1,180		3,640	0.002	<0.001	<0.001	<0.003	804	Clear Slight odor
4	22.71	34.36	1.9	8	6/8/2021	1,100		3,660	<0.001	<0.001	<0.001	<0.003	737	Clear Slight odor
4	23.2	34.36	1.8	8	9/7/2021	1,280		3,700	0.002	0.001	<0.001	<0.003	953	Clear Slight odor
4	22.69	34.36	1.9	8	11/4/2021	1,150	1,178	3,640	0.001	<0.001	<0.001	<0.003	913	Clear Slight odor
4	22.94	34.36	1.8	8	2/24/2022	1,220		3,560	<0.001	<0.001	<0.001	<0.003	736	Clear Slight odor
4	23.5	34.36	1.7	8	6/3/2022	1,220		3,520	<0.001	<0.001	<0.001	<0.003	963	Clear Slight odor
4	24.03	34.36	1.7	8	8/30/2022	1,240		3,440	<0.001	<0.001	<0.001	<0.003	777	Clear Slight odor
4	23.39	34.36	1.8	8	11/10/2022	1,110	1,198	3,380	<0.001	<0.001	<0.001	<0.003	762	Clear Slight odor
4	22.85	34.36	1.8	8	3/13/2023	1,280		3,450	<0.001	<0.001	<0.001	<0.003	662	Clear Slight odor
4	22.71	34.36	1.9	8	6/1/2023	1,090		3,550	<0.001	<0.001	<0.001	<0.003	814	Clear Slight odor
4	22.68	34.36	1.9	8	8/15/2023	1,050		3,350	<0.001	<0.001	<0.001	<0.003	814	Clear Slight odor
4	23.24	34.36	1.8	8	12/1/2023	1,000	1,105	3,340	<0.001	<0.001	<0.001	<0.003	771	Clear Slight odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
5	23.06	37.6	2.3	8	10/20/2008	1,220	1,220	4,060	<0.001	<0.001	<0.001	<0.003	894	Clear Slight odor
5	22.71	37.62	2.4	8	2/5/2009	1,180		3,940	<0.001	<0.001	<0.001	<0.003	902	Clear Slight odor
5	22.61	37.62	2.4	8	5/8/2009	1,320		3,840	<0.001	<0.001	<0.001	<0.003	858	Clear Slight odor
5	23.66	37.62	2.2	8	8/14/2009	1,240		3,740	<0.001	<0.001	<0.001	<0.003	730	Clear Slight odor
5	23.82	37.62	2.2	8	11/4/2009	1,260	1,250	3,640	<0.001	<0.001	<0.001	<0.003	600	Clear Slight odor
5	23.38	37.65	2.3	8	2/17/2010	1,260		3,800	<0.001	<0.001	<0.001	<0.003	940	Clear Slight odor
5	22.84	37.65	2.4	8	5/19/2010	1,340		3,660	<0.001	<0.001	<0.001	<0.003	783	Clear Slight odor
5	22.64	37.65	2.4	8	8/11/2010	1,400		3,690	<0.001	<0.001	<0.001	<0.003	785	Clear Slight odor
5	23.05	37.65	2.3	8	11/4/2010	1,560	1,390	4,210	0.082	0.002	0.004	<0.006	881	Clear Slight odor
5	22.71	37.65	2.4	8	2/25/2011	1,600		4,390	<0.001	<0.001	<0.001	<0.003	829	Clear No odor
5	22.97	37.65	2.3	8	5/20/2011	1,680		4,380	<0.001	<0.001	<0.001	<0.003	877	Clear Slight odor
5	23.91	37.65	2.2	8	8/11/2011	1,600		4,420	<0.001	<0.001	<0.001	<0.003	799	Clear Slight odor

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	Cl	ann.	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	11/0/2011	4 600	avg Cl	4.460	.0.004	0.004	Benzene	Xylenes	074	
5	23.88	37.65	2.2	8	11/9/2011	1,600	1,620	4,460	<0.001	<0.001	<0.001	<0.003	974	Clear Slight odor
5	23.31	37.65	2.3	8	2/8/2012	1,560		4,430	<0.001	<0.001	<0.001	<0.003	973	Clear Slight odor
5	23.12	37.65	2.3	8	5/20/2012	1,480		4,190	<0.001	<0.001	<0.001	<0.003	1,030	Clear Slight odor
5	23.87	37.65	2.2	8	8/7/2012	1,320		3,840	<0.001	<0.001	0.001	<0.003	935	Clear Slight odor
5	23.65	37.65	2.2	8	10/31/2012	1,240	1,400	3,820	<0.001	<0.001	<0.001	<0.003	750	Clear Slight odor
5	23.33	37.65	2.3	8	1/30/2013	1,140		3,730	<0.001	<0.001	<0.001	<0.003	686	Clear Slight odor
5	23.11	37.65	2.3	8	5/14/2013	1,200		3,850	<0.001	<0.001	<0.001	<0.003	961	Clear Slight odor
5	23.68	37.65	2.2	8	8/14/2013	1,070		3,600	<0.001	<0.001	<0.001	<0.003	802	Clear Slight odor
5	23.77	37.65	2.2	8	10/31/2013	1,000	1,103	3,460	<0.001	<0.001	<0.001	<0.003	750	Clear Slight odor
5	23.35	37.65	2.3	8	2/18/2014	1,000		3,540	<0.001	<0.001	<0.001	<0.003	850	Clear Slight odor
5	23.22	37.65	2.3	8	4/24/2014	1,060		3,690	<0.001	<0.001	<0.001	<0.003	860	Clear Slight odor
5	24.27	37.65	2.1	8	7/31/2014	1,040		3,520	<0.001	<0.001	<0.001	<0.003	955	Clear Slight odor
5	23.26	37.65	2.3	8	11/6/2014	1,100	1,050	3,500	<0.001	<0.001	< 0.001	<0.003	549	Clear Slight odor
5	23	37.65	2.3	8	2/12/2015	1,040		3,760	<0.001	<0.001	<0.001	<0.003	869	Clear Slight odor
5	22.67	37.65	2.4	8	5/6/2015	1,200		4,090	<0.001	<0.001	<0.001	<0.003	977	Clear Slight odor
5	23.45	37.65	2.3	8	8/11/2015	1,220		4,350	<0.001	<0.001	<0.001	<0.003	1,270	Clear Slight odor
5	23.18	37.65	2.3	8	11/5/2015	1,360	1,205	4,060	<0.001	<0.001	< 0.001	< 0.003	353	Clear Slight odor
5	22.74	37.65	2.3	8	2/10/2016	1,240		4,160	<0.001	<0.001	< 0.001	< 0.003	1,060	Clear Slight odor
5	22.52	37.65	2.4	8	5/9/2016	1,080		3,860	<0.001	<0.001	<0.001	<0.003	979	Clear Slight odor
5	23.13	37.65	2.3	8	9/8/2016	1,120		3,790	<0.001	<0.001	<0.001	<0.003	905	Clear Slight odor
5	22.62	37.65	2.4	8	11/8/2016		1,185	4,010	<0.001	<0.001	<0.001	<0.003	1,020	Clear Slight odor
5	22.38	37.65	2.4	8	2/16/2017	1,180	-	3,710	<0.001	<0.001	<0.001	<0.003	975	Clear Slight odor
5	22.18	37.65	2.5	8	4/28/2017	1,180		3,760	<0.001	<0.001	<0.001	<0.003	1,050	Clear Slight odor
5	22.88	37.65	2.5	8	9/5/2017	1,160		3,940	<0.001	<0.001	<0.001	<0.003	941	Clear Slight odor
5	22.82	37.65	2.5	8	11/8/2017	1,060	1,145		<0.001	<0.001	<0.001	<0.003	926	Clear Slight odor
5	22.28	37.65	2.5	8	2/23/2018	1,060	,	3,690	<0.001	<0.001	<0.001	<0.003	974	Clear Slight odor
5	22.35	37.65	2.4	8	5/8/2018	1,230		3,890	<0.001	<0.001	<0.001	<0.003	1,120	Clear Slight odor
5	23.71	37.65	2.2	8	8/30/2018	1,140		3,500	<0.001	<0.001	<0.001	<0.003	958	Clear Slight odor
5	23.02	37.65	2.3	8	11/8/2018	1,140	1,143	3,290	<0.001	<0.001	<0.001	<0.003	992	Clear Slight odor
5	22.54	34.65	2.4	8	2/27/2019	1,280	_,	3,450	<0.001	<0.001	<0.001	<0.003	1,230	Clear Slight odor
5	22.57	34.65	2.4	8	5/22/2019	1,280		4,110	<0.001	<0.001	<0.001	<0.003	1,060	Clear Slight odor
	22.31	34.03	۷.٦	U	3/22/2013	1,200		7,110	\0.001	\0.001	\U.UUI	\U.UU3	1,000	cicai siigiit odoi

ROC - EME H-20 SWD (1R427-87) Unit Letter H, Section 20, T20S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
5	23.74	34.65	2.2	8	8/26/2019	1,100	avg Ci	3,610	<0.001	<0.001	<0.001	<0.003	806	Clear Slight odor
5	23.32	34.65	2.3	8	11/13/2019	1,040	1,175	3,420	<0.001	<0.001	<0.001	<0.003	792	Clear Slight odor
5	22.65	37.65	2.4	8	3/2/2020	1,090		3,530	<0.001	0.002	<0.001	<0.003	1,800	Clear Slight odor
5	23.37	37.65	2.3	8	9/8/2020	980	1,035	3,350	<0.001	<0.001	<0.001	<0.003	629	Clear Slight odor
5	23.33	37.65	2.3	8	3/4/2021	1,040		3,350	<0.001	<0.001	<0.001	<0.003	715	Clear Slight odor
5	22.37	37.65	2.3	8	6/8/2021	960		3,540	<0.001	<0.001	<0.001	<0.003	758	Clear Slight odor
5	23.88	37.65	2.2	8	9/7/2021	590		3,360	<0.001	<0.001	<0.001	<0.003	860	Clear Slight odor
5	22.35	37.65	2.4	8	11/4/2021	1,050	910	3,440	<0.001	<0.001	<0.001	<0.003	934	Clear Slight odor
5	24.1	37.65	2.2	8	2/24/2022	1,080		3,350	<0.001	<0.001	<0.001	<0.003	725	Clear Slight odor
5	24.64	37.65	2.1	8	6/3/2022	1,060		3,400	<0.001	<0.001	<0.001	<0.003	992	Clear Slight odor
5	24.07	37.65	2.2	8	8/30/2022	1,060		3,340	<0.001	<0.001	<0.001	<0.003	790	Clear Slight odor
5	24.07	37.65	2.2	8	11/10/2022	960	1,040	3,380	<0.001	<0.001	<0.001	<0.003	772	Clear Slight odor
5	23.57	37.65	2.3	8	3/13/2023	1,100		3,410	<0.001	<0.001	<0.001	<0.003	901	Clear Slight odor
5	23.4	37.65	2.3	8	6/1/2023	1,000		3,420	<0.001	<0.001	<0.001	<0.003	862	Clear Slight odor
5	23.37	37.65	2.3	8	8/15/2023	1,050		3,350	<0.001	<0.001	<0.001	<0.003	814	Clear Slight odor
5	23.9	37.65	2.2	8	12/1/2023	1,000	1,038	3,200	<0.001	<0.001	<0.001	<0.003	813	Clear Slight odor





March 23, 2023

KATIE JONES

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 03/16/23 16:23.

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

Celey D. Keine

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. Keene

Lab Director/Quality Manager





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/16/2023 Sampling Date: 03/13/2023
Reported: 03/23/2023 Sampling Type: Water

Project Name: EME JUNCTION H - 20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

A ... - I. ... - - I D. ... 311 /

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sample ID: MONITOR WELL #1 (H231214-01)

BTEX 8021B	mg/	L	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/20/2023	ND	0.020	101	0.0200	2.08	
Toluene*	<0.001	0.001	03/20/2023	ND	0.021	103	0.0200	3.11	
Ethylbenzene*	<0.001	0.001	03/20/2023	ND	0.020	101	0.0200	5.88	
Total Xylenes*	<0.003	0.003	03/20/2023	ND	0.063	105	0.0600	5.02	
Total BTEX	<0.006	0.006	03/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	% 77.5-12	5						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1040	4.00	03/17/2023	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*	788	125	03/20/2023	ND	18.2	91.0	20.0	16.5	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3450	5.00	03/22/2023	ND	800	80.0	1000	0.377	

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/16/2023 Reported: 03/23/2023 Project Name:

EME JUNCTION H - 20 NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: 03/13/2023 Sampling Type: Water Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #2 (H231214-02)

Project Number:

BTEX 8021B	mg/	L	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/20/2023	ND	0.020	101	0.0200	2.08	
Toluene*	<0.001	0.001	03/20/2023	ND	0.021	103	0.0200	3.11	
Ethylbenzene*	<0.001	0.001	03/20/2023	ND	0.020	101	0.0200	5.88	
Total Xylenes*	<0.003	0.003	03/20/2023	ND	0.063	105	0.0600	5.02	
Total BTEX	<0.006	0.006	03/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	880	4.00	03/17/2023	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*	546	83.3	03/20/2023	ND	18.2	91.0	20.0	16.5	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/16/2023 Reported: 03/23/2023

Project Name: EME JUNCTION H - 20
Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 03/13/2023 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #3 (H231214-03)

BTEX 8021B	mg/	L	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.003	0.001	03/20/2023	ND	0.020	101	0.0200	2.08	
Toluene*	< 0.001	0.001	03/20/2023	ND	0.021	103	0.0200	3.11	
Ethylbenzene*	< 0.001	0.001	03/20/2023	ND	0.020	101	0.0200	5.88	
Total Xylenes*	<0.003	0.003	03/20/2023	ND	0.063	105	0.0600	5.02	
Total BTEX	<0.006	0.006	03/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	6 77.5-12	25						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1100	4.00	03/17/2023	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*	849	125	03/20/2023	ND	18.2	91.0	20.0	16.5	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3380	5.00	03/22/2023	ND	800	80.0	1000	0.377	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/16/2023 Reported: 03/23/2023

Project Name: EME JUNCTION H - 20 Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: 03/13/2023 Sampling Type: Sampling Condition:

Sample Received By:

Water Cool & Intact Tamara Oldaker

Sample ID: MONITOR WELL #4 (H231214-04)

BTEX 8021B	mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/20/2023	ND	0.020	101	0.0200	2.08	
Toluene*	< 0.001	0.001	03/20/2023	ND	0.021	103	0.0200	3.11	
Ethylbenzene*	< 0.001	0.001	03/20/2023	ND	0.020	101	0.0200	5.88	
Total Xylenes*	<0.003	0.003	03/20/2023	ND	0.063	105	0.0600	5.02	
Total BTEX	<0.006	0.006	03/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 77.5-12	5						
Chloride, SM4500Cl-B	mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1280	4.00	03/17/2023	ND	104	104	100	3.92	
Sulfate 375.4	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	662	83.3	03/20/2023	ND	18.2	91.0	20.0	16.5	
TDS 160.1	mg/L		Analyzed By: AC						
Analyte						0/ 5	T 1/-1 0C	DDD	0
, many co	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Analytical Results For:

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

Fax To: (575) 397-1471

 Received:
 03/16/2023

 Reported:
 03/23/2023

 Project Name:
 EME JUNCTION H - 20

Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 03/13/2023 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #5 (H231214-05)

BTEX 8021B	mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/20/2023	ND	0.020	101	0.0200	2.08	
Toluene*	< 0.001	0.001	03/20/2023	ND	0.021	103	0.0200	3.11	
Ethylbenzene*	< 0.001	0.001	03/20/2023	ND	0.020	101	0.0200	5.88	
Total Xylenes*	<0.003	0.003	03/20/2023	ND	0.063	105	0.0600	5.02	
Total BTEX	<0.006	0.006	03/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 77.5-12	5						
Chloride, SM4500CI-B	mg/L		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1100	4.00	03/17/2023	ND	104	104	100	3.92	
Sulfate 375.4	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	901	125	03/20/2023	ND	18.2	91.0	20.0	16.5	
TDS 160.1	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3410	5.00	03/22/2023	ND	800	80.0	1000	0.377	

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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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Celeg D. Freene

CHECKED BY:

(Initials)

Received By: (Laboratory Staff)

Cool ✓ Yes ✓

Sample Condition

Yes

REMARKS:

Email Results: kjones@riceswd.com

rozanne@sdacres.com

Released to Imaging: 2/28/2025 1:31:31

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Delivered By:

(Circle One)

Sampler - UPS - Bus - Other:



June 13, 2023

KATIE JONES

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 06/06/23 15:45.

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

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





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 06/06/2023 Sampling Date: 06/01/2023 Reported: 06/13/2023 Sampling Type: Water

Project Name: EME JUNCTION H - 20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

A ... - I. ... - - I D. ... 311 /

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sample ID: MONITOR WELL #1 (H232872-01)

BTEX 8021B	mg/L		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.005	0.001	06/08/2023	ND	0.019	94.7	0.0200	0.651	
Toluene*	<0.001	0.001	06/08/2023	ND	0.019	95.4	0.0200	2.48	
Ethylbenzene*	<0.001	0.001	06/08/2023	ND	0.019	94.6	0.0200	4.45	
Total Xylenes*	<0.003	0.003	06/08/2023	ND	0.059	98.6	0.0600	5.50	
Total BTEX	<0.006	0.006	06/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	6 77.5-12	5						
Chloride, SM4500CI-B	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1080	4.00	06/07/2023	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*	939	125	06/07/2023	ND	16.9	84.6	20.0	8.21	
TDS 160.1	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3440	5.00	06/08/2023	ND	835	83.5	1000	1.52	

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Analytical Results For:

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

Fax To: (575) 397-1471

 Received:
 06/06/2023

 Reported:
 06/13/2023

 Project Name:
 EME JUNCTION H - 20

NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 06/01/2023
Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: MONITOR WELL #2 (H232872-02)

Project Number:

BTEX 8021B	mg/	L	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	06/08/2023	ND	0.019	94.7	0.0200	0.651	
Toluene*	< 0.001	0.001	06/08/2023	ND	0.019	95.4	0.0200	2.48	
Ethylbenzene*	< 0.001	0.001	06/08/2023	ND	0.019	94.6	0.0200	4.45	
Total Xylenes*	<0.003	0.003	06/08/2023	ND	0.059	98.6	0.0600	5.50	
Total BTEX	<0.006	0.006	06/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	790	4.00	06/07/2023	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*	706	125	06/07/2023	ND	16.9	84.6	20.0	8.21	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2750	5.00	06/08/2023	ND	835	83.5	1000	1.52	

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Celeg D. Freene





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 06/06/2023 Reported: 06/13/2023 Project Name: EME JUNCTION H - 20

Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: 06/01/2023 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #3 (H232872-03)

			d By: JH/					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.005	0.001	06/08/2023	ND	0.019	94.7	0.0200	0.651	
<0.001	0.001	06/08/2023	ND	0.019	95.4	0.0200	2.48	
<0.001	0.001	06/08/2023	ND	0.019	94.6	0.0200	4.45	
<0.003	0.003	06/08/2023	ND	0.059	98.6	0.0600	5.50	
<0.006	0.006	06/08/2023	ND					
109 %	6 77.5-12	5						
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1000	4.00	06/07/2023	ND	104	104	100	3.92	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
797	125	06/07/2023	ND	16.9	84.6	20.0	8.21	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3240	5.00	06/08/2023	ND	835	83.5	1000	1.52	
	0.005 <0.001 <0.003 <0.006 109 % mg/l Result 1000 mg/l Result 797 mg/l	0.005 0.001 <0.001 0.001 <0.001 0.001 <0.003 0.003 <0.006 0.006 109 % 77.5-12 mg/L Result Reporting Limit 1000 4.00 mg/L Result Reporting Limit 797 125 mg/L Result Reporting Limit	0.005 0.001 06/08/2023 <0.001	0.005 0.001 06/08/2023 ND <0.001	0.005 0.001 06/08/2023 ND 0.019 <0.001	0.005 0.001 06/08/2023 ND 0.019 94.7 <0.001	0.005 0.001 06/08/2023 ND 0.019 94.7 0.0200 <0.001	0.005 0.001 06/08/2023 ND 0.019 94.7 0.0200 0.651 <0.001

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Celey D. Keene



Tamara Oldaker



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Sample Received By:

Analytical Results For:

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

Fax To: (575) 397-1471

Received: 06/06/2023 Sampling Date: 06/01/2023 Reported: Sampling Type: Water 06/13/2023 Project Name: EME JUNCTION H - 20 Sampling Condition: Cool & Intact

Project Location: T20S-R37E-SEC20 H-LEA CO NM

NONE GIVEN

Sample ID: MONITOR WELL #4 (H232872-04)

Project Number:

BTEX 8021B	mg/	L	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	06/08/2023	ND	0.019	94.7	0.0200	0.651	
Toluene*	< 0.001	0.001	06/08/2023	ND	0.019	95.4	0.0200	2.48	
Ethylbenzene*	< 0.001	0.001	06/08/2023	ND	0.019	94.6	0.0200	4.45	
Total Xylenes*	<0.003	0.003	06/08/2023	ND	0.059	98.6	0.0600	5.50	
Total BTEX	<0.006	0.006	06/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 77.5-12	5						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1090	4.00	06/07/2023	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*	814	125	06/07/2023	ND	16.9	84.6	20.0	8.21	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3550	5.00	06/08/2023	ND	835	83.5	1000	1.52	

Cardinal Laboratories *=Accredited Analyte

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Celecy D. Keene





Analytical Results For:

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

Received: 06/06/2023

06/13/2023

Project Name: EME JUNCTION H - 20
Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 06/01/2023
Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #5 (H232872-05)

Reported:

BTEX 8021B	mg/	L	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	06/08/2023	ND	0.019	94.7	0.0200	0.651	
Toluene*	< 0.001	0.001	06/08/2023	ND	0.019	95.4	0.0200	2.48	
Ethylbenzene*	< 0.001	0.001	06/08/2023	ND	0.019	94.6	0.0200	4.45	
Total Xylenes*	<0.003	0.003	06/08/2023	ND	0.059	98.6	0.0600	5.50	
Total BTEX	<0.006	0.006	06/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 77.5-12	25						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1000	4.00	06/07/2023	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*	862	125	06/07/2023	ND	16.9	84.6	20.0	8.21	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3420	5.00	06/08/2023	ND	835	83.5	1000	1.52	

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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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Celey D. Keine

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August 28, 2023

KATIE JONES

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 08/21/23 9:35.

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

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





Analytical Results For:

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

Fax To: (575) 397-1471

 Received:
 08/21/2023
 Sampling Date:
 08/15/2023

 Reported:
 08/28/2023
 Sampling Type:
 Water

Project Name: EME JUNCTION H - 20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sample ID: MONITOR WELL #1 (H234525-01)

·	•	•							
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	08/28/2023	ND	0.020	102	0.0200	0.759	
Toluene*	< 0.001	0.001	08/28/2023	ND	0.019	97.4	0.0200	1.17	
Ethylbenzene*	<0.001	0.001	08/28/2023	ND	0.019	93.8	0.0200	0.107	
Total Xylenes*	< 0.003	0.003	08/28/2023	ND	0.057	95.3	0.0600	0.761	
Total BTEX	<0.006	0.006	08/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8 9	% 77.5-12	5						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1440	4.00	08/21/2023	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*	742	125	08/23/2023	ND	19.1	95.6	20.0	7.01	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3720	5.00	08/25/2023	ND	247	82.3	300	2.41	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 08/21/2023 Reported: 08/28/2023

Project Name: EME JUNCTION H - 20 Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: 08/15/2023 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: MONITOR WELL #2 (H234525-02)

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	08/28/2023	ND	0.020	102	0.0200	0.759	
Toluene*	<0.001	0.001	08/28/2023	ND	0.019	97.4	0.0200	1.17	
Ethylbenzene*	<0.001	0.001	08/28/2023	ND	0.019	93.8	0.0200	0.107	
Total Xylenes*	<0.003	0.003	08/28/2023	ND	0.057	95.3	0.0600	0.761	
Total BTEX	<0.006	0.006	08/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8 %	6 77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	880	4.00	08/21/2023	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*	502	125	08/23/2023	ND	19.1	95.6	20.0	7.01	
TDS 160.1	mg/l	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2510	5.00	08/25/2023	ND	247	82.3	300	2.41	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 08/21/2023 Reported: 08/28/2023

Project Name: EME JUNCTION H - 20 Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: Sampling Type: Sampling Condition:

08/15/2023 Water Cool & Intact

Sample Received By: Shalyn Rodriguez

Sample ID: MONITOR WELL #3 (H234525-03)

mg/	L	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.001	0.001	08/28/2023	ND	0.020	102	0.0200	0.759	
<0.001	0.001	08/28/2023	ND	0.019	97.4	0.0200	1.17	
<0.001	0.001	08/28/2023	ND	0.019	93.8	0.0200	0.107	
<0.003	0.003	08/28/2023	ND	0.057	95.3	0.0600	0.761	
<0.006	0.006	08/28/2023	ND					
92.8 %	6 77.5-12	5						
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
900	4.00	08/21/2023	ND	100	100	100	3.92	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
752	125	08/23/2023	ND	19.1	95.6	20.0	7.01	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result <0.001 <0.001 <0.003 <0.006 92.8 9 mg/l Result 900 mg/l	<0.001	Result Reporting Limit Analyzed <0.001	Result Reporting Limit Analyzed Method Blank <0.001	Result Reporting Limit Analyzed Method Blank BS <0.001	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.001	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC < 0.001	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.001

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Celey D. Keene





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 08/21/2023 Reported: 08/28/2023

Project Name: EME JUNCTION H - 20 Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: 08/15/2023 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: MONITOR WELL #4 (H234525-04)

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	08/28/2023	ND	0.020	102	0.0200	0.759	
Toluene*	< 0.001	0.001	08/28/2023	ND	0.019	97.4	0.0200	1.17	
Ethylbenzene*	< 0.001	0.001	08/28/2023	ND	0.019	93.8	0.0200	0.107	
Total Xylenes*	<0.003	0.003	08/28/2023	ND	0.057	95.3	0.0600	0.761	
Total BTEX	<0.006	0.006	08/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6 %	% 77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1050	4.00	08/21/2023	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*	814	125	08/23/2023	ND	19.1	95.6	20.0	7.01	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3350	5.00	08/25/2023	ND	247	82.3	300	2.41	

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Celecy D. Keene





Analytical Results For:

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

Fax To: (575) 397-1471

 Received:
 08/21/2023

 Reported:
 08/28/2023

 Project Name:
 EME JUNCTION H - 20

Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 08/15/2023 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: MONITOR WELL #5 (H234525-05)

RTFY 8021R

BIEX 8021B	mg/	<u>L</u>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	08/28/2023	ND	0.020	102	0.0200	0.759	
Toluene*	< 0.001	0.001	08/28/2023	ND	0.019	97.4	0.0200	1.17	
Ethylbenzene*	< 0.001	0.001	08/28/2023	ND	0.019	93.8	0.0200	0.107	
Total Xylenes*	<0.003	0.003	08/28/2023	ND	0.057	95.3	0.0600	0.761	
Total BTEX	<0.006	0.006	08/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7 %	77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1020	4.00	08/21/2023	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*	790	125	08/23/2023	ND	19.1	95.6	20.0	7.01	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3420	5.00	08/25/2023	ND	247	82.3	300	2.41	
TDS 160.1	mg/	L	Analyze	d By: AC					Qua

Analyzed By: MC

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene





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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Celey D. Keine

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llma.i			MATRIX PRESERVATIVE SAMPLING										1		TPH 418.1/TX1005 / TX1005 Extended (C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	Ba Co				GC/MS Vol. 8260B/624	8270C/625		80			Na, K)	CO3, HCO3)	Sulfates Total Dissolved Solids		~ 24 Hours			
烟34525		۵	Ø METHOD											2	2	900		AS E	As	TCLP Semi Volatiles			0B/	<u>ج</u>		Pesticides 8081A/608		뉟	Z	0,	S		Turn Around Time ~		
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December 08, 2023

KATIE JONES

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 12/04/23 13:20.

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

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 12/04/2023 Sampling Date: 12/01/2023
Reported: 12/08/2023 Sampling Type: Water

Project Name: EME JUNCTION H - 20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

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Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sample ID: MONITOR WELL #1 (H236495-01)

BTEX 8021B	mg/	<u>L</u>	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.015	0.001	12/05/2023	ND	0.020	101	0.0200	9.36	
Toluene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	6.01	
Ethylbenzene*	0.001	0.001	12/05/2023	ND	0.020	102	0.0200	4.18	
Total Xylenes*	<0.003	0.003	12/05/2023	ND	0.059	99.1	0.0600	3.33	GC-NC
Total BTEX	0.016	0.006	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 77.5-12	5						
Chloride, SM4500Cl-B	mg/	'L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	4050	4.00	12/05/2023	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*	159	25.0	12/05/2023	ND	21.6	108	20.0	9.47	
TDS 160.1	mg/	'L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	6830	5.00	12/08/2023	ND	529	106	500	3.27	

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 12/04/2023 Reported: 12/08/2023

Project Name: EME JUNCTION H - 20
Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 12/01/2023 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #2 (H236495-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	12/05/2023	ND	0.020	101	0.0200	9.36	
Toluene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	6.01	
Ethylbenzene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	4.18	
Total Xylenes*	<0.003	0.003	12/05/2023	ND	0.059	99.1	0.0600	3.33	
Total BTEX	<0.006	0.006	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2 %	% 77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	580	4.00	12/05/2023	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*	128	25.0	12/05/2023	ND	21.6	108	20.0	9.47	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1260	5.00	12/08/2023	ND	529	106	500	3.27	

Analyzed By: JH

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 12/04/2023 Reported: 12/08/2023

Project Name: EME JUNCTION H - 20 Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date:

12/01/2023

Sampling Type: Water

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: MONITOR WELL #3 (H236495-03)

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.002	0.001	12/05/2023	ND	0.020	101	0.0200	9.36	
Toluene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	6.01	
Ethylbenzene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	4.18	
Total Xylenes*	<0.003	0.003	12/05/2023	ND	0.059	99.1	0.0600	3.33	
Total BTEX	<0.006	0.006	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 77.5-12	5						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1020	4.00	12/05/2023	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*	874	125	12/05/2023	ND	21.6	108	20.0	9.47	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3360	5.00	12/08/2023	ND	529	106	500	3.27	

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Celey D. Keene





Analytical Results For:

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

Received: 12/04/2023 12/08/2023

Project Name: EME JUNCTION H - 20 Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM Sampling Date: 12/01/2023 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #4 (H236495-04)

Reported:

RTFY 8021R

RIEX 8051R	mg/	<u> </u>	Anaiyze	а ву: Јн					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	12/05/2023	ND	0.020	101	0.0200	9.36	
Toluene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	6.01	
Ethylbenzene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	4.18	
Total Xylenes*	<0.003	0.003	12/05/2023	ND	0.059	99.1	0.0600	3.33	
Total BTEX	<0.006	0.006	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9 %	% 77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1000	4.00	12/05/2023	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*	771	125	12/05/2023	ND	21.6	108	20.0	9.47	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyzed By: 14

Cardinal Laboratories *=Accredited Analyte

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Celecy D. Keene





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 12/04/2023 Reported: 12/08/2023

Project Name: EME JUNCTION H - 20

Project Number: NONE GIVEN

Project Location: T20S-R37E-SEC20 H-LEA CO NM

Sampling Date: 12/01/2023
Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #5 (H236495-05)

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	12/05/2023	ND	0.020	101	0.0200	9.36	
Toluene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	6.01	
Ethylbenzene*	< 0.001	0.001	12/05/2023	ND	0.020	102	0.0200	4.18	
Total Xylenes*	<0.003	0.003	12/05/2023	ND	0.059	99.1	0.0600	3.33	
Total BTEX	<0.006	0.006	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 77.5-12	25						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1000	4.00	12/05/2023	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*	813	125	12/05/2023	ND	21.6	108	20.0	9.47	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3200	5.00	12/08/2023	ND	529	106	500	3.27	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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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Fax (575) 393-2476 Cardina	l Laboratories, Inc.	CHAIN-OF-CUSTODY AND ANALYSIS F	1 of 1		
RICE Operating Company	Company:	LAB Order ID#			
Katie Jones	NICE Operating Company	ANAL VOICE			
dress: (Street, City, Zip)	(Street OV	ANALYSIS REQUEST (Circle or Specify Method No.)			
22 W Taylor Street ~ Hobbs, New Mexico 88240	122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone#				
	(575) 393-9174 Fax#:		1111		
575) 393-9174 Fax#: (575)	(5/5)39/-1471				
	397-1471	(C35) 6010B/200.7			
ect Location: EME Junction H-20		(C3)			
20S-R37E-Sec20 H - Long	Samala				
20S-R37E-Sec20 H ~ Lea County - New Mexico	Sampler Signature: Rozanne Johnson (575)631-9310	BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 Extended (C35) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Pesticides TCLP Semi Volatiles TCLP Pesticides			
36495		005 EX			
LAB#	MATRIX PRESERVATIVE SAMPLING	TPH 418.17X1005 / TX1005 TPH 418.17X1005 / TX1005 PAH 8270C Total Metals Ag As Ba Cd Cr I TCLP Volatiles TCLP Volatiles TCLP Pesticides TCLP Pesticides RCI GC/MS Semi. Vol. 8270C/625 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Cl. SOA COS LOCES)	ds HCO3)		
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AB USE ONLY FIELD CODE	# CONTAINERS WATER SOIL AIR SULGE (4-40ml VOA) HNO3 NaHSO4 H2SO4 ICE (1-1Liter HDPE) NONE DATE (2023) IME	TPH 418.17TX1005 / TPH 418.17TX1005 / TPH 418.17TX1005 / Total Metals Ag As Ba TCLP Welatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Pesticides TCLP Pesticides TCLP Pesticides TCLP Pesticides TCLP Pesticides TCLP Pesticides TCLP Semi Vol. 8270 TCLP Semi Vol. 8	Sulfates Total Dissolved Solids Chlorides		
ONLY	18/6 18	B/6 Ag	1 8 1		
	SSO	88.17 70C7 70C7 70C7 70C7 70C7 70C7 70C7 70	3 8		
/ Monitor Well #1	WATER SOIL AIR SOIL AIR SLUDGE SULDGE HNO3 NAHSO4 H2SO4 ICE (1-1Lifer HDPI NONE DATE (2023) TIME	BTEX 8021B/602 TPH 418.17TX100 PAH 8270C Total Metals Ag As CLP Metals Ag As CLP Semi Volatile CLP Semi Volatile CLP Semi Volatile CLP Semi Volatile CLP Semi Vol. 8260B/ CIMS S	s isso		
	5 X	PAH 418.1/TX1 PAH 418.1/TX1 PAH 8270C Total Metals Ag TCLP Volatiles TCLP Semi Volat TCLP Semi Volat CCIMS Semi. Vol. GC/MS Semi. Vol. PCB's 8082/608 Pesticides 8081A BOD, TSS, pH Molsture Content Cations (Cl. SOA C	Sulfates Total Dissolved Solic Chlorides		
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UPS - Bus - Other:	Yes (Initials)	Sudcres.com	- 1		



From: OCDOnline@state.nm.us

To: <u>Katie Jones</u>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 202257

Date: Wednesday, November 29, 2023 2:02:37 PM

To whom it may concern (c/o Katie Davis for RICE OPERATING COMPANY),

The OCD has approved the submitted *Ground Water Abatement* (GROUND WATER ABATEMENT), for incident ID (n#) nAPP2109547013, with the following conditions:

• Review of the 2022 Annual Report and Path Forward: Content Satisfactory 1. NMOCD suggests requesting a meeting to discuss options going forward for high chlorides in groundwater at the site. 2. Discontinuing chloride detection in groundwater monitoring samples at the site is currently not approved. 3. Please continue to conduct groundwater monitoring at the site until eight (8) consecutive sampling events and lab analyses demonstrate below NMWQCC standards in 20.6.2.3108 of the NMAC 4. Please submit the 2023 Annual Groundwater Monitoring Report by April 1, 2024.

The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Michael Buchanan Environmental Specialist 505-490-0798 Michael.Buchanan@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 327841

CONDITIONS

Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	327841
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Report fothe EME-H20 SWD (1R427-87): content satisfactory 1. Propose abatement options or set up meeting with OCD to discuss options for abatement, as previously suggested. 2. ROC must provide data from any up-gradient source that has the potential to contaminate underneath EME H-20 SWD. 3. Continue to conduct groundwater monitoring for all constituents (BTEX, TDS, sulfate and chloride) until such meeting is set with the OCD and provide annual report to OCD by April 1, 2025.	2/28/2025