

Table 2
Groundwater Sample Analytical Data Summary
Apache Corporation, EBDU #37
Lea County, New Mexico

Sample	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Chloride (mg/L)	TDS (mg/L)	Depth To groundwater
WQCC Standard:		*0.005	*1	*0.7	*0.62	**250	**1,000	*** (feet)
Windmill	¹ 08/01/2019	<0.001	<0.001	<0.001	<0.003	232	732	--
	² 09/23/2019	--	--	--	--	--	--	--
	² 12/26/2019	<0.000800	<0.00200	<0.00200	<0.00200	259	688	--
	³ 09/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	274	730	--
	³ 12/07/2020	<0.00200	<0.00200	<0.00200	<0.00200	287	930	--
	³ 03/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	252	745	--
	³ 06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	255	781	--
	⁴ 10/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	251	800	--
	⁴ 12/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	246	751	--
	⁴ 03/03/2022	<0.00200	<0.00200	<0.00200	<0.00400	256	828	--
	⁴ 05/23/2022	<0.00200	<0.00200	<0.00200	<0.00400	222	738	--
	⁴ 08/16/2022	<0.00200	<0.00200	<0.00200	<0.00400	256	1,190	--
	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	198	508	--
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	401	1,130	--
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	276	852	--
	⁴ 09/07/2023	<0.00200	<0.00200	<0.00400	<0.00400	350	981	--
TMW-1	² 09/23/2019	<0.00800	<0.00200	<0.00200	<0.00200	37.4	400	46.18
	² 12/26/2019	<0.000800	<0.00200	<0.00200	<0.00200	21.1	390	48.90
	³ 09/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	22.6	390	49.31
	³ 12/07/2020	<0.00200	<0.00200	<0.00200	<0.00200	13.1	383	49.42
	³ 03/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	10.9	360	49.41
	³ 06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	14.5	360	49.67
	³ 10/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	17.5	358	50.90
	⁴ 12/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	10.3	391	49.95
	⁴ 03/01/2022	<0.00200	<0.00200	<0.00200	<0.00400	13.2	343	49.92
	⁴ 05/23/2022	<0.00200	<0.00200	<0.00200	<0.00400	26.0	369	50.25
	⁴ 08/16/2022	<0.00200	<0.00200	<0.00200	<0.00400	50.3	404	50.64
	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	21.4	216	50.18
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	41.9	358	50.16
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	275	845	47.09
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	277	830	--
TMW-2	² 09/23/2019	<0.00800	<0.00200	<0.00200	<0.00200	338	1,220	55.80
	² 12/26/2019	<0.000800	<0.00200	<0.00200	<0.00200	307	1,170	57.50
	³ 09/30/2020	<0.00200	0.00227	<0.00200	<0.00200	314	1,040	58.01
	³ 12/07/2020	<0.00200	<0.00200	<0.00200	<0.00200	298	1,050	58.06
	³ 03/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	293	1,000	58.00
	³ 06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	267	1,050	58.12
	⁴ 10/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	263	1,030	58.54
	⁴ 12/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	284	1,270	58.50
	⁴ 03/01/2022	<0.00200	<0.00200	<0.00200	<0.00400	282	1,030	58.48
	⁴ 05/23/2022	<0.00200	<0.00200	<0.00400	<0.00400	256	1,070	58.62
	⁴ 08/16/2022	<0.00200	<0.00200	<0.00400	<0.00400	239	940	58.98
	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	195	985	58.76
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	211	1,060	58.70
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	248	1,120	58.27
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	270	1,050	--
TMW-3	09/23/2019	--	--	--	--	--	--	--

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WQCC Standard:		*0.005	*1	*0.7	*0.62	**250	**1,000	*** (feet)
	12/26/2019	--	--	--	--	--	--	--
	³ 09/30/2020	<0.00200	0.00322	<0.00200	0.00448	212	891	57.62
	³ 12/07/2020	<0.00200	<0.00200	<0.00200	<0.00200	214	948	57.68
	³ 03/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	213	900	57.59
	³ 06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	180	934	57.90
	⁴ 10/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	192	967	58.31
	⁴ 12/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	211	949	58.18
	⁴ 03/01/2022	<0.00200	<0.00200	<0.00200	<0.00400	233	944	58.14
	⁴ 05/23/2022	<0.00200	<0.00200	<0.00200	<0.00400	202	955	58.41
	⁴ 08/16/2022	<0.00200	<0.00200	<0.00200	<0.00400	245	1,100	58.87
	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	175	808	58.44
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	233	940	58.36
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	229	1,020	57.53
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	240	1,010	
TMW-4	09/23/2019	--	--	--	--	--	--	--
	12/26/2019	--	--	--	--	--	--	--
	³ 09/30/2020	<0.00200	0.00314	<0.00200	<0.00200	1,020	2,040	57.39
	³ 12/07/2020	<0.00200	<0.00200	<0.00200	<0.00200	987	2,300	57.45
	³ 03/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	834	1,960	57.40
	³ 06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	745	1,990	57.60
	⁴ 10/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	689	1,990	57.99
	⁴ 12/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	735	2,180	57.90
	⁴ 03/01/2022	<0.00200	<0.00200	<0.00200	<0.00400	1,610	2,080	57.87
	⁴ 03/29/2022	<0.00200	<0.00200	<0.00200	0.00700	547	1,930	57.89
	⁴ 05/23/2022	<0.00200	<0.00200	<0.00200	<0.00400	522	1,930	58.05
	⁴ 08/16/2022	<0.00200	<0.00200	<0.00200	<0.00400	684	2,000	58.48
	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	486	1,940	58.15
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	703	1,850	58.07
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	673	1,900	57.28
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	625	1,810	
TWM-5	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	1,170	4,950	57.91
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	2,890	5,200	57.27
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	2,790	5,380	55.63
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	2,700	4,590	
TWM-6	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	941	3,160	62.17
	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	2,270	3,200	62.08
	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	1,550	3,260	61.41
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	1,630	2,820	
TWM-7	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	1,770	3,980	63.34
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	1,870	3,880	
TMW-8	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	974	2,410	54.02
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	1,130	2,470	
TMW-9	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	18.0	373	51.11
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	41.8	390	
TMW-10	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	9.89	525	51.57
	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	67.0	514	

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WQCC Standard:		*0.005	*1	*0.7	*0.62	**250	**1,000	*** (feet)
DUP-1 (Windmill)	³ 09/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	276	794	--
DUP-1 (Windmill)	³ 12/07/2020	<0.00200	<0.00200	<0.00200	<0.00200	278	908	--
DUP-1 (Windmill)	³ 03/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	259	798	--
DUP-1 (Windmill)	³ 06/10/2021	<0.00200	<0.00200	<0.00200	<0.00400	256	781	--
DUP-1 (Windmill)	⁴ 10/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	250	830	--
DUP-1 (Windmill)	⁴ 12/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	243	796	--
Dup-1 (TMW-2)	⁴ 03/01/2022	<0.00200	<0.00200	<0.00200	<0.00400	297	1,010	--
Dup-2 (Windmill)	⁴ 03/03/2022	<0.00200	<0.00200	<0.00200	<0.00400	491	787	--
Dup-1 (Windmill)	⁴ 05/23/2022	<0.00200	<0.00200	<0.00200	<0.00400	215	729	--
Dup-1 (Windmill)	⁴ 08/16/2022	<0.00200	<0.00200	<0.00200	<0.00400	283	1,120	--
Dup-1 (TWM-5)	⁴ 12/15/2022	<0.00100	<0.00100	<0.00100	<0.00100	1,410	4,520	--
Dup-1 (Windmill)	⁴ 03/14/2023	<0.00100	<0.00100	<0.00100	<0.00100	413	1,130	--
Dup-1 (Windmill)	⁴ 06/22/2023	<0.00200	<0.00200	<0.00200	<0.00200	273	855	--
Dup-1 (TMW-5)	⁴ 09/06/2023	<0.00200	<0.00200	<0.00200	<0.00400	3,030	5,850	--

Notes:

(¹): analysis performed by Cardinal Laboratories, Hobbs, New Mexico, by EPA SW-846 Method 8021B (BTEX) and titration methods (chloride and TDS).

(²): analysis performed by DHL Analytical, Round Rock, Texas, by EPA SW-846 Method 8021B (BTEX) and Method 300 (chloride).

(³): analysis performed by Xenco Laboratories, Midland, Texas, by EPA SW-846 Method 8021B (BTEX) and Method 300 (chloride).

(⁴): analysis performed by Eurofins-Xenco, Midland, Texas, by EPA SW-846 Method 8021B (BTEX) and Method 300 (chloride).

<: concentration is less than analytical method reporting limit (RL).

*: NMWQCC Human Health Standard

**: NMWQCC Domestic Water Quality Standard

---: no data available

***: Depth to groundwater measured from top of casing (TOC)

All values reported in milligrams per liter (mg/L) equivalent to parts per million (ppm)

Bold and highlighted denotes analyte concentration exceeds WQCC domestic water quality standard

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Sample	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Chloride (mg/L)	TDS (mg/L)	Depth To groundwater
WQCC Standard:		*0.005	*1	*0.7	*0.62	**250	**1,000	*** (feet)

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

Action 280913

CONDITIONS

Operator: APACHE CORPORATION 6120 S. YALE SUITE 1500 TULSA, OK 74136	OGRID: 42629
	Action Number: 280913
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	10/30/2023