

2022 Mill River Dissolved Oxygen and Salinity Measurements

The Regional Water Authority (RWA) continued its annual summer dissolved oxygen (DO) and salinity monitoring in the Mill River downstream of the Lake Whitney water supply reservoir in 2022 to help document environmental conditions before and after the Whitney Water Treatment Plant was activated in 2005. Weekly measurements were taken from July through September at three stations prior to daybreak when the 14-day median lake level at Lake Whitney was less than 0.20 feet above spillway elevation, which is approximately equivalent to a spillage flow rate to the river of 40 million gallons per day. In 2022, conditions were generally average. A moderate dry period occurred in July/August, sampling was conducted on 10 occasions during this period.



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Date	Station	14-day median lake level (ft)	Depth (m)	Temp (C)	Salinity (PSS)	pH	DO (mg/L)
7/15/2022	Spillway	+0.140	0.70	26.60	0.18	9.19	10.69
7/15/2022	Plunge Pool		0.50	24.50	0.18	8.94	8.21
7/15/2022	Footbridge		0.10	25.80	2.80	7.59	6.47
7/15/2022	Footbridge		0.50	27.00	6.45	7.37	6.50
7/22/2022	Spillway	+0.120	0.30	27.60	0.18	8.81	8.92
7/22/2022	Plunge Pool		0.20	26.20	0.18	8.68	8.04
7/22/2022	Footbridge		0.10	26.20	0.19	7.76	4.13
7/22/2022	Footbridge		0.40	26.30	0.19	7.75	3.91
7/27/2022	Spillway	+0.120	0.30	26.80	0.19	8.15	7.33
7/27/2022	Plunge Pool		0.20	26.50	0.19	7.82	6.75
7/27/2022	Footbridge		0.10	23.90	0.61	7.46	4.47
7/27/2022	Footbridge		0.30	27.30	5.24	7.43	7.12
8/4/2022	Spillway	-0.035	0.50	26.90	0.19	8.07	8.00
8/4/2022	Plunge Pool		0.40	26.60	0.19	7.88	7.09
8/4/2022	Footbridge		0.10	25.60	0.42	7.61	5.43
8/4/2022	Footbridge		0.50	27.80	3.25	7.26	3.46
8/11/2022	Spillway	-0.300	0.30	27.70	0.20	8.68	9.36
8/11/2022	Plunge Pool		0.20	27.70	0.20	8.31	8.16
8/11/2022	Footbridge		0.10	26.00	0.66	7.52	4.29
8/11/2022	Footbridge		0.30	26.30	0.53	7.44	4.10
8/19/2022	Spillway	-0.520	0.30	24.90	0.20	8.85	10.26
8/19/2022	Plunge Pool		0.20	24.50	0.20	8.08	7.66
8/19/2022	Footbridge		0.10	24.30	3.32	7.35	5.66
8/19/2022	Footbridge		0.30	25.90	8.06	7.20	3.32
8/25/2022	Spillway	-0.895	0.50	25.60	0.20	8.74	9.46
8/25/2022	Plunge Pool		0.20	25.00	0.20	8.35	8.23
8/25/2022	Footbridge		0.10	23.60	0.40	7.55	4.64
8/25/2022	Footbridge		0.40	25.40	3.88	7.19	3.73
9/1/2022	Spillway	-1.000	0.40	25.00	0.20	8.73	9.38
9/1/2022	Plunge Pool		0.30	24.70	0.20	8.34	8.10
9/1/2022	Footbridge		0.10	24.80	2.40	7.65	6.38
9/1/2022	Footbridge		0.50	26.70	7.32	7.20	3.58
9/9/2022	Spillway	-1.010	0.30	21.50	0.13	7.79	6.49
9/9/2022	Plunge Pool		0.28	20.90	0.13	8.02	8.96
9/9/2022	Footbridge		0.10	20.50	0.14	7.90	8.01

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9/9/2022	Footbridge		0.50	20.60	0.14	7.73	7.58
9/15/2022	Spillway	+0.165	0.50	22.01	0.13	8.02	7.89
9/15/2022	Plunge Pool		0.30	21.60	0.13	8.10	8.13
9/15/2022	Footbridge		0.20	21.30	0.12	7.84	6.45
9/15/2022	Footbridge		0.70	21.30	0.12	7.82	6.34