

2023 Stormwater Sample Data - 6UMN-outfall

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Specific Conductivity (µS/cm)	Salinity (ppt)	Transparency (cm)	pH	Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)
6UMN-outfall	01/17/2023 10:15		Melt	Grab	33	5.0		3726	6031	3.26	11	7.0	90	163	2090
6UMN-outfall	02/07/2023 10:15		Base	Grab	29	6.4	10.67	5386	8352	4.63	4	6.7	258	408	2820
6UMN-outfall	02/13/2023 12:50	02/13/2023 21:50	Melt	Composite									122	210	446
6UMN-outfall	02/14/2023 12:25	02/15/2023 04:50	Rain	Composite									31	49	192
6UMN-outfall	02/27/2023 10:05	02/27/2023 13:55	Rain	Composite									26	69	1130
6UMN-outfall	03/07/2023 10:45		Base	Grab	35	9.2	11.40	1096	1570	0.79	62	7.3	276	364	447
6UMN-outfall	03/16/2023 10:35	03/16/2023 15:40	Rain	Composite									45	91	363
6UMN-outfall	03/21/2023 09:50		Base	Grab	29	6.6	11.85	1349	2081	1.06	99	8.4	320	645	461
6UMN-outfall	04/05/2023 10:00		Base	Grab	30	5.6	11.85	640	1017	0.50	28	8.1	177	228	177
6UMN-outfall	05/16/2023 09:30		Base	Grab	68	13.5	7.40	12.95	1660	0.84	52	7.4	331	448	281
6UMN-outfall	06/06/2023 09:15		Base	Grab	73	14.6	10.10	1279	1595	0.81	> 100	8.3	325	517	297
6UMN-outfall	07/18/2023 09:45		Base	Grab	71	15.2	10.19	1272	1563	0.79	> 100	8.4	341	542	262
6UMN-outfall	08/01/2023 09:35		Base	Grab	86	19.2	9.64	1352	1519	0.77	84	8.2	307	537	262
6UMN-outfall	08/15/2023 09:15		Base	Grab	71	16.0	9.92	1080	1304	0.66	> 100	8.2	281	436	226
6UMN-outfall	09/05/2023 09:30		Base	Grab	80	18.8	9.66	1332	1510	0.76	63	8.1	313	473	263
6UMN-outfall	10/03/2023 08:30		Base	Grab	73						86		331	516	270
6UMN-outfall	10/16/2023 09:15		Base	Grab	43	11.2	10.61	1131	1537	0.78	> 100	8.3	341	513	254
6UMN-outfall	11/07/2023 10:25		Base	Grab	42	8.9	11.39	1043	1506	0.76	73	8.3	351	539	277
6UMN-outfall	11/21/2023 09:50		Base	Grab	39	9.4	10.92	1376	1959	1.00	4	8.1	271	431	463
6UMN-outfall	12/08/2023 09:15		Base	Grab	42	9.7	10.98	1075	1519	0.77	> 100	8.2	320	243	255
6UMN-outfall	12/20/2023 10:15		Base	Grab	31	7.5	12.14	963	1448	0.73	> 100	8.3	351	533	243

2023 Stormwater Sample Data - 6UMN-outfall

Station	Sample Start	Sample End	Carbonaceous Biological Oxygen Demand 5-day (mg/L)	Total Biological Oxygen Demand (mg/L)	Chemical Oxygen Demand (mg/L)	E. coli (MPN/100 mL)	Dissolved Phosphorous (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	Ammonia Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Nitrate- Nitrite (mg/L)	Sulfate (mg/L)
6UMN-outfall	01/17/2023 10:15		> 8.5	> 8.8	67		0.08	0.08	0.18	0.64	1.90	0.59	0.10	0.69	23.2
6UMN-outfall	02/07/2023 10:15		> 8.9	> 8.9	120	99	0.10	0.04	0.38	0.55	2.30	1.21	0.10	1.31	41.6
6UMN-outfall	02/13/2023 12:50	02/13/2023 21:50	7.6	9.2	69		0.09	0.09	0.25	0.37	1.80	0.64	0.07	0.71	23.1
6UMN-outfall	02/14/2023 12:25	02/15/2023 04:50		8.4	129		0.07		0.45	0.34	2.60	0.30	0.07	0.37	6.7
6UMN-outfall	02/27/2023 10:05	02/27/2023 13:55					~ 0.04		0.2	0.38	1.60	0.27	0.08	0.35	
6UMN-outfall	03/07/2023 10:45		2.3	2.2	< 15	461	< 0.02	0.026	0.059	< 0.06	0.43	1.19	< 0.06	1.19	49.2
6UMN-outfall	03/16/2023 10:35	03/16/2023 15:40			48		< 0.02			0.39		0.52	0.08	0.60	13.8
6UMN-outfall	03/21/2023 09:50		1.5	0.8	< 15		~ 0.02	0.022	~ 0.044	< 0.06	0.39	1.32	< 0.06	1.32	59.3
6UMN-outfall	04/05/2023 10:00		3.3	3.9	24	461	0.23	0.22	0.29	0.15	0.85	1.14	< 0.06	1.14	35.6
6UMN-outfall	05/16/2023 09:30		> 8.5	> 8.4	157		< 0.02	< 0.01	0.36	0.86	2.10	1.10	< 0.06	1.10	58.1
6UMN-outfall	06/06/2023 09:15		1.1	0.8	< 15	7	< 0.05	0.03	< 0.05	< 0.06	0.25	1.58	< 0.06	1.58	69.1
6UMN-outfall	07/18/2023 09:45		1.5	1.1	< 15	45	< 0.05	0.02	< 0.05	< 0.06	0.29	1.35	< 0.06	1.44	63.9
6UMN-outfall	08/01/2023 09:35		2.7	2.2	< 15	142	< 0.05	0.01	< 0.05	< 0.06	0.23	1.28	< 0.06	1.28	62.0
6UMN-outfall	08/15/2023 09:15		1.5	1.6	< 15		< 0.05	0.04	0.06	< 0.06	0.33	1.14	< 0.06	1.14	50.9
6UMN-outfall	09/05/2023 09:30		1.2	1.9	< 15	83	< 0.05	0.01	< 0.05	< 0.06	0.34	1.36	< 0.06	1.36	66.8
6UMN-outfall	10/03/2023 08:30		1.4	1.1	< 15	138	< 0.05	0.02	< 0.05	< 0.06	0.28	1.45	< 0.06	1.45	64.8
6UMN-outfall	10/16/2023 09:15		0.7	0.4	< 15		< 0.05	0.02	< 0.05	< 0.06	0.28	1.45	< 0.06	1.45	65.6
6UMN-outfall	11/07/2023 10:25		2.5	1.7	< 15	79	< 0.05	0.02	< 0.05	< 0.06	0.28	1.72	< 0.06	1.72	69.0
6UMN-outfall	11/21/2023 09:50		2.3	2.8	43		< 0.05	< 0.01	0.46	1.48	2.72	0.94	< 0.06	0.94	41.6
6UMN-outfall	12/08/2023 09:15		1.2	0.8	< 15	2	< 0.05	0.01	< 0.05	< 0.06	0.30	1.57	< 0.06	1.57	66.7
6UMN-outfall	12/20/2023 10:15		1.6	1.2	< 15		< 0.05	0.01	< 0.05	< 0.06	0.36	1.59	< 0.06	1.59	65.1

2023 Stormwater Sample Data - 6UMN-outfall

Station	Sample Start	Sample End	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Copper (µg/L)	Total Lead (µg/L)	Total Nickel (µg/L)	Total Zinc (µg/L)	Total Organic Carbon (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
6UMN-outfall	01/17/2023 10:15		0.17	11.7	10.7	3.3	3.8	108	2.6	3240	37	13
6UMN-outfall	02/07/2023 10:15								2.4	4560	85	31
6UMN-outfall	02/13/2023 12:50	02/13/2023 21:50							4.0	820	58	23
6UMN-outfall	02/14/2023 12:25	02/15/2023 04:50							4.4	382	139	47
6UMN-outfall	02/27/2023 10:05	02/27/2023 13:55							2.9	1840	85	30
6UMN-outfall	03/07/2023 10:45								1.7	1050	4	< 3
6UMN-outfall	03/16/2023 10:35	03/16/2023 15:40							2.9	744	182	74
6UMN-outfall	03/21/2023 09:50		< 0.1	< 2.5	1.7	< 0.5	5.6	11.8	1.0	1160	< 3	< 3
6UMN-outfall	04/05/2023 10:00								4.0	450	14	5
6UMN-outfall	05/16/2023 09:30		< 0.1	< 2.5	6.2	2.5	13.4	36.1	36.2	955	39	13
6UMN-outfall	06/06/2023 09:15								1.2	859	< 3	< 3
6UMN-outfall	07/18/2023 09:45		< 0.1	< 2.5	1.4	< 0.5	5.6	5.9	1.5	836	< 3	< 3
6UMN-outfall	08/01/2023 09:35								1.5	820	4	< 3
6UMN-outfall	08/15/2023 09:15		< 0.1	< 2.5	2.5	< 0.5	4.3	9.1	< 1.0	725	4	3
6UMN-outfall	09/05/2023 09:30								1.3	793	< 3	< 3
6UMN-outfall	10/03/2023 08:30								1.5	822	< 3	< 3
6UMN-outfall	10/16/2023 09:15		< 0.1	< 2.5	1.5	< 0.5	4.8	8.2	1.2	837	< 3	< 3
6UMN-outfall	11/07/2023 10:25								1.3	840	< 4	< 4
6UMN-outfall	11/21/2023 09:50		0.27	8.2	21.3	22.1	12.8	74.6	1.5	1070	225	42
6UMN-outfall	12/08/2023 09:15								1.2	816	4	4
6UMN-outfall	12/20/2023 10:15		< 0.1	< 2.5	1.2	< 0.5	6.5	< 5.0	1.2	822	< 3	< 3