

2022 Stormwater Sample Data - 6UMN-outfall

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
6UMN-outfall	01/04/2022 10:35	01/04/2022 10:35	Base	Grab	27	7.4	909	11.43	8.2	0.69	1370	> 100	306	< 0.06
6UMN-outfall	01/18/2022 08:35	01/18/2022 08:35	Base	Grab	29	7.1	1014	11.50	7.7	0.78	1540	> 100	344	< 0.06
6UMN-outfall	02/01/2022 10:10	02/01/2022 10:10	Base	Grab	17	4.3	739	12.10	8.19	0.61	1223	> 100	323	< 0.06
6UMN-outfall	02/15/2022 09:55	02/15/2022 09:55	Base	Grab	15	4.8	786	12.30	8.38	0.64	1279	> 100	326	< 0.06
6UMN-outfall	02/28/2022 17:15	02/28/2022 17:15	Melt	Grab	42	4.6	3917	11.65	8.09	3.48	6411	3	151	1.13
6UMN-outfall	03/01/2022 10:30	03/01/2022 10:30	Base	Grab	32	4.6	3917	11.65	8.09	3.48	6411	3	324	0.12
6UMN-outfall	03/15/2022 09:15	03/15/2022 09:15	Base	Grab	34	7.9	879	12.32	8.1	0.65	1305	> 100	337	< 0.06
6UMN-outfall	06/21/2022 09:10	06/21/2022 09:10	Base	Grab	78	16.1	882	12.20	7.4	0.53	1063	> 100	294	< 0.06
6UMN-outfall	07/05/2022 10:40	07/05/2022 10:40	Base	Grab	75	17.0	872	9.56	6.6	0.51	1030	49	298	0.09
6UMN-outfall	07/19/2022 09:10	07/19/2022 09:10	Base	Grab	82	16.0	1214	9.83	7.6	0.61	1214	> 100	325	< 0.06
6UMN-outfall	08/02/2022 09:35	08/02/2022 09:35	Base	Grab	74	16.6	882	9.68	7.5	0.60	1201	> 100	299	0.06
6UMN-outfall	08/07/2022 20:00	08/07/2022 23:15	Rain	Composite	63								32	< 0.06
6UMN-outfall	08/12/2022 04:55	08/12/2022 07:40	Rain	Composite	70								64	0.50
6UMN-outfall	08/16/2022 09:00	08/16/2022 09:00	Base	Grab		15.3	949	10.09	7.5	0.58	1165	82	298	< 0.06
6UMN-outfall	09/06/2022 10:45	09/06/2022 10:45	Base	Grab	78	17.9	1007	8.42	6.9	0.58	1165	> 100	332	< 0.06
6UMN-outfall	09/20/2022 09:20	09/20/2022 09:20	Base	Grab	73	18.5	1028	9.70	7.4	0.59	1173	67	331	< 0.06
6UMN-outfall	09/20/2022 10:21	09/20/2022 10:21	Base	Grab									331	< 0.06
6UMN-outfall	10/04/2022 09:50	10/04/2022 09:50	Base	Grab	63	14.8	941	10.21	7.2	0.58	1168	> 100	311	< 0.06
6UMN-outfall	10/18/2022 09:30	10/18/2022 09:30	Base	Grab	30	7.5	784	11.63	7.3	0.59	1176	> 100	310	< 0.06
6UMN-outfall	11/01/2022 09:00	11/01/2022 09:00	Base	Grab	40	12.4	876	10.83	6.9	0.58	1154	80	318	0.06
6UMN-outfall	11/15/2022 11:10	11/15/2022 11:10	Base	Grab	31	8.0	6451	10.49	6.3	5.37	9563	13	222	0.65

Station	Sample Start	Sample End	Carbonaceous Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/ 100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
6UMN-outfall	01/04/2022 10:35	01/04/2022 10:35	1.0	< 15	240.0	~ 0.03	0.02	~ 0.02	< 1	524	0.26	0.98	< 0.06
6UMN-outfall	01/18/2022 08:35	01/18/2022 08:35	0.7	< 15	300.0	< 0.02	0.01	~ 0.02		385	0.43	0.95	< 0.06
6UMN-outfall	02/01/2022 10:10	02/01/2022 10:10	0.6	< 15	215.0	< 0.02	< 0.01	< 0.02	2	353	0.50	0.99	< 0.06
6UMN-outfall	02/15/2022 09:55	02/15/2022 09:55	0.6	< 15	207.0	< 0.02	0.01	~ 0.04		461	0.44	0.97	< 0.06
6UMN-outfall	02/28/2022 17:15	02/28/2022 17:15	> 26.0	215	2350.0	0.32	0.25	0.63		185	5.10	0.60	0.19
6UMN-outfall	03/01/2022 10:30	03/01/2022 10:30	2.2	< 15	522.0	~ 0.02	0.02	0.07	50	364	0.81	0.96	< 0.06
6UMN-outfall	03/15/2022 09:15	03/15/2022 09:15	0.9	< 15	214.0	< 0.02	< 0.01	0.15		447	0.48	0.84	< 0.06
6UMN-outfall	06/21/2022 09:10	06/21/2022 09:10	1.1	25	113.0	0.08	0.08	0.12		358	0.45	1.20	< 0.06
6UMN-outfall	07/05/2022 10:40	07/05/2022 10:40	0.5	43	152.0	0.07	0.1	0.15		323	0.64	1.02	< 0.06
6UMN-outfall	07/19/2022 09:10	07/19/2022 09:10	1.2	< 15	207.0	~ 0.03	0.02	0.05		396	0.67	1.12	< 0.06
6UMN-outfall	08/02/2022 09:35	08/02/2022 09:35	0.9	< 15	190.0	~ 0.05	0.05	0.06	32	458	0.33	1.02	< 0.06
6UMN-outfall	08/07/2022 20:00	08/07/2022 23:15	3.3	51	40.3	0.05	0.04	0.17		< 45	0.71	0.82	< 0.06
6UMN-outfall	08/12/2022 04:55	08/12/2022 07:40		22	5.1	0.07		0.18		< 45	1.20		
6UMN-outfall	08/16/2022 09:00	08/16/2022 09:00	1.9	< 15	165.0	~ 0.04	0.04	0.08		486	0.42	1.12	< 0.06
6UMN-outfall	09/06/2022 10:45	09/06/2022 10:45	1.3	< 15	163.0	< 0.02	0.02	0.06	72	449	0.39	1.14	< 0.06
6UMN-outfall	09/20/2022 09:20	09/20/2022 09:20	1.0	< 15	156.0	< 0.02	0.02	0.07		369	0.21	0.97	< 0.06
6UMN-outfall	09/20/2022 10:21	09/20/2022 10:21	0.9	< 15	156.0	< 0.02	0.02	0.07		325	0.22	0.98	< 0.06
6UMN-outfall	10/04/2022 09:50	10/04/2022 09:50	0.9	< 15	174.0	~ 0.04	0.02	~ 0.03	130	530	0.35	1.12	< 0.06
6UMN-outfall	10/18/2022 09:30	10/18/2022 09:30	0.7	< 15	175.0	< 0.02	0.01	~ 0.05		462	0.24	1.06	< 0.06
6UMN-outfall	11/01/2022 09:00	11/01/2022 09:00	1.0	< 15	165.0	< 0.02	0.01	< 0.02	1	448	0.31	1.00	< 0.06
6UMN-outfall	11/15/2022 11:10	11/15/2022 11:10	6.0	83	3720.0	~ 0.05	0.04	0.14		542	1.50	0.99	0.11

2022 Stormwater Sample Data - 6UMN-outfall continued

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
6UMN-outfall	01/04/2022 10:35	01/04/2022 10:35	53.7	0.4							758	< 1.0	~ 2	~ 1
6UMN-outfall	01/18/2022 08:35	01/18/2022 08:35	53.3	0.4	< 0.10	< 1.00	0.79	< 0.50	5.50	5.60	843	1.2	~ 1	~ 1
6UMN-outfall	02/01/2022 10:10	02/01/2022 10:10	54.9	0.3							695	1.2	< 3	< 3
6UMN-outfall	02/15/2022 09:55	02/15/2022 09:55	54.9	0.6							701	1.1	< 3	< 3
6UMN-outfall	02/28/2022 17:15	02/28/2022 17:15	28.9	> 26.0							3490	9.4	130	50
6UMN-outfall	03/01/2022 10:30	03/01/2022 10:30	42.4	2.1							1130	1.5	3	< 3
6UMN-outfall	03/15/2022 09:15	03/15/2022 09:15	46.8	0.6	< 0.10	< 1.00	1.30	< 0.50	4.80	10.10	696	1.2	< 3	< 3
6UMN-outfall	06/21/2022 09:10	06/21/2022 09:10	45.7	1.5	< 0.10	< 1.00	2.70	< 0.50	4.30	13.70	611	4.0	< 3	< 3
6UMN-outfall	07/05/2022 10:40	07/05/2022 10:40	45.1	0.7							585	2.8	15	5
6UMN-outfall	07/19/2022 09:10	07/19/2022 09:10	53.6	1.1	< 0.10	< 1.00	1.70	< 0.50	4.20	13.80	670	1.9	4	< 3
6UMN-outfall	08/02/2022 09:35	08/02/2022 09:35	53.3	0.3							667	1.7	< 3	< 3
6UMN-outfall	08/07/2022 20:00	08/07/2022 23:15	4.7	4.2							121	3.6	71	18
6UMN-outfall	08/12/2022 04:55	08/12/2022 07:40	2.7								51	4.7	58	19
6UMN-outfall	08/16/2022 09:00	08/16/2022 09:00	53.4	1.7							678	3.1	3	< 3
6UMN-outfall	09/06/2022 10:45	09/06/2022 10:45	53.9	0.6							676	1.4	< 3	< 3
6UMN-outfall	09/20/2022 09:20	09/20/2022 09:20	53.1	0.6	< 0.10	< 1.00	1.20	< 0.50	4.50	6.30	634	1.4	< 3	< 3
6UMN-outfall	09/20/2022 10:21	09/20/2022 10:21	54.1	0.5	< 0.10	< 1.00	0.85	< 0.50	4.20	6.90	658	1.3	< 3	< 3
6UMN-outfall	10/04/2022 09:50	10/04/2022 09:50	53.6	0.7							654	1.5	< 3	< 3
6UMN-outfall	10/18/2022 09:30	10/18/2022 09:30	52.2	0.4	< 0.10	< 1.00	< 5.00	< 0.50	4.40	6.50	668	1.1	< 3	< 3
6UMN-outfall	11/01/2022 09:00	11/01/2022 09:00	51.0	0.9							632	1.3	< 3	< 3
6UMN-outfall	11/15/2022 11:10	11/15/2022 11:10	40.3	6.1	0.25	5.10	2.60	2.40	5.00	53.50	5390	1.6	25	10