

Jan. 12, 2023

Utility Department Monthly Operating Report Sewer Department

December 2023 Effluent Monitoring Data

During the December operating period there were no exceedances. See performance table below for further details of the regulatory monitoring data. For the month December 2023.

See updated Flow, TSS and BOD Trend Charts at the end of this report.

WWTP Monthly Performance Table

Parameters	Dec.	Nov.	Oct.	YTD Low	YTD Hi	YTD Ave	2022 Ave	DEP Limit	YTD Exceed- ances
Flow GPD	30030	13338	25692	13338	30030	20449	20228	63,000	0
Precip inches	8.07	2.79	7.53				n/a	n/a	0
TSS lbs/min	1	0.26	1	0.59	2.13	1.36	2.6	< 76	0
TSS lbs max	9	2.25	4	2.25	9	3.09	5.1	report	0
TSS mg/l ave	4.6	7.7	8	4.6	17	10.6	26.1	< 145	0
TSS mg/l max	5.8	14	17	5.8	19	12.9	37.5	report	0
TSS % removal	96.8	97.3	97.2	84.8	97	96.1	89.7	> 50	0
BOD lbs/min	11	6.31	15	5.4	33.84	19.7	15.2	< 107	0
BOD lbs max	278	33.45	64	8.2	278	65.6	26.9	report	0
BOD mg/l ave	113	126	181	62.3	333	178	140.1	< 203	2
BOD mg/l max	150	170	390	56	420	259.1	161.6	report	0
BOD % removal	44.3	56.5	37.5	-3	56.5	39.4	51.6	> 30	2
pH low	6.7	6.7	6.7	6.4	6.7	6.7	6.5	> 6.0	0
pH high	7.0	6.9	6.9	6.7	7.0	6.9	6.7	< 9.0	0
St solids ml/l	0.1	0.1	0.3	0.1	0.2	0.1	0.15	report	0
TRC mg/l max	0.05	0.04	0.05	0.02	0.08	0.066	.03	< 0.3	0
Fecal cfu ave	<4	<4	<4	<4	4	< 4	9.58	< 14	0
Fecal cfu max	<4	<4	<4	<4	4	< 4	19.37	< 31	0
Enterococcus cfu ave	n/a	n/a	<4	< 4	714	108	10.8	< 8	2
Enterococcus cfu max	n/a	n/a	<4	< 4	9680	9680	26.9	< 54	2
Hg ng/l ave	n/a	n/a	n/a	na	n/a	n/a	18.28	33.4	0
Hg ng/l max	n/a	n/a	n/a	na	n/a	n/a	7.0	50.1	0

1. Moore's Septage is pumped sludge 10/6/23.
2. BOD concentration dropped after pumping
3. EPA renewal application was submitted on 11-29-23
4. MDEP Inspection still waiting on final report
5. Work has begun with RCAP to submit a rate increase request to MPUC
6. RCAP will also assist with GIS mapping and wastewater chlorination review

Drinking Water Department

December 2023 Production and Water Quality.

Purchased water for the month averaged 12,740 gpd compared to 16,021 gpd for the same month in 2022. The weekly free chlorine residual in the drinking water ranged from 0.2 - 0.32 ppm/Cl₂ compared to the recommended goal of >.20 to <1.0 ppm/Cl₂ at the entry point to the distribution system. The EPA maximum concentration level (MCL) not to be exceeded for chlorine residual related to human health is 4.0 ppm. The monthly total coliform and e-coli water sample test results were both negative.