



**TO:** Mayor and Council

**FROM:** Alyshia Neuman, Manager of Works and Operations

**DATE:** June 16, 2021

**RE:** **Monthly WTP Data Sheet – May 2021**

**BACKGROUND:**

Permit Requirements:

Parameter	Treated water sampling and locations/ Minimum sampling frequency	Limit
Turbidity (NTU)	On-site testing at least once (1) per day from water entering the distribution system and at the same frequency and locations as bacteriological samples	Less than 1.0 NTU, 95% of discrete measurements each calendar month
Free Chlorine (FCL)	At least once (1) per day for free chlorine; and at the same locations and frequency of bacteriological samples	Free residual of not less than 0.1 Mg per litre in the water entering the distribution system
Total Chlorine (TCL)	At least once (1) per day for free chlorine; and at the same locations and frequency of bacteriological samples	A total chlorine residual of not less than 0.5 Mg per litre of a free residual of not less than 0.1 Mg per litre in the water throughout the distribution system
Iron	Once per day (aesthetic Objective)	0.05 Mg per litre
Manganese	Once per day (aesthetic Objective)	0.05 Mg per litre

**ANALYSIS:**

Parameter	High	Low
Turbidity (NTU)	0.87	0.10
Free Chlorine (FCL)	2.76	0.13
Total Chlorine (TCL)	3.50	0.40
Iron	0.29	0.00
Manganese (MN)	0.217	0.034

Water Usage:

	High	Low	Total for Month
Raw	1032 m <sup>3</sup> per day	360 m <sup>3</sup> per day	23,072 m <sup>3</sup>
Treated	1010 m <sup>3</sup> per day	496 m <sup>3</sup> per day	20,932m <sup>3</sup>
Process			2,140 m <sup>3</sup>

**Notes:**

- Iron was over our aesthetic objectives 5 days out of 31.
- We were over aesthetic objectives for manganese 24 days out of 31 this month. This was caused by filter overloading and pot perm dosages. This causes slight discoloration in our distribution system.
  - We have been setting the filter valves to account for filter overloading and for the north filter valving having cavitation until this can be repaired. If we can eliminate the cavitation with replacing the valving and suction line this should clear up our filter overloading and be more consistent.
  - The drain valve is also in need of repair both these items are being worked on and quotes are being obtained.
- We continue to closely monitor Raw NTU, iron, and manganese, as well as our filter turbidity dependent. This is not a permitted tested requirement but does help to analyze the rises and lows of our system.
- We see increases on demand periodically throughout the month.

**ATTACHMENT:**

WTP Monthly Data Sheet- May 2021