



TOWN OF LAKE COWICHAN WATER TREATMENT PLANT



August 2020 Operations Performance Report



TOWN OF LAKE COWICHAN WATER TREATMENT REPORT

AUGUST 2020

Table of Contents

Permit to Operate	3
Certified Operators	3
Notable Events	3
Water Quality Results	4



Permit to Operate

Operated water treatment plant under Interim Permit to Operate. Application for full Operating Permit underway.

Certified Operators

The Vancouver Island Health Authority Operational Permit requires that the Town of Cowichan have a certified operator to match or exceed the Water Treatment Plant Certification, which is a level III plant. The Town of Cowichan has three certified operators on staff which agreements in place to call upon additional resources as required.

Operator	Title	Staff/Contractor	Certification
Mike Hewitt	Chief Water Operator	Staff (Public Works)	WT4, WD2
David Campbell	Water Operator	Staff (Public Works)	WT2, WD2, WWT1, WWC2
Terry McMahon	Water Operator	Staff (Public Works)	WT1, WD1
Scott Jameson	Professional Operator	Contractor (C2EP)	WT4
Joe Woolls	Professional Operator	Contractor (IFC Water)	WT1, WD3

Notable Events

Wednesday, August 5 – Nicolas Tardy (Civil Designer with Stantec) forwards lab results to Murray Sexton (Public Health Engineer from Island Health) from water sampled during final commissioning activities conducted in July.

Thursday, August 6 – Water treatment plant classified as a Class III WT Facility (#2357) by EOCP. Certificate valid until August 6, 2025.

Tuesday, August 11 – Murray Sexton confirms his approval to Heather Hutton (Island Health) of the water quality lab results from the flocculation system during final commissioning sent by Nicolas. This is the final step before being granted an Operating Permit for the water treatment plant.

Monday, August 24 – Backup generator tied in at the raw water pumping station. Reservoir set points were adjusted during the previous evening to hold level between 90 and 93% to ensure adequate quantity of water during the time the raw water pumps were shutdown.

Monday, August 24 – Raw water flow meter settings were changed from L/s to m³/hour and totalizer were changed from liters to cubic meters. This make more effective use of the number of available digits in the counts for better flow reporting.



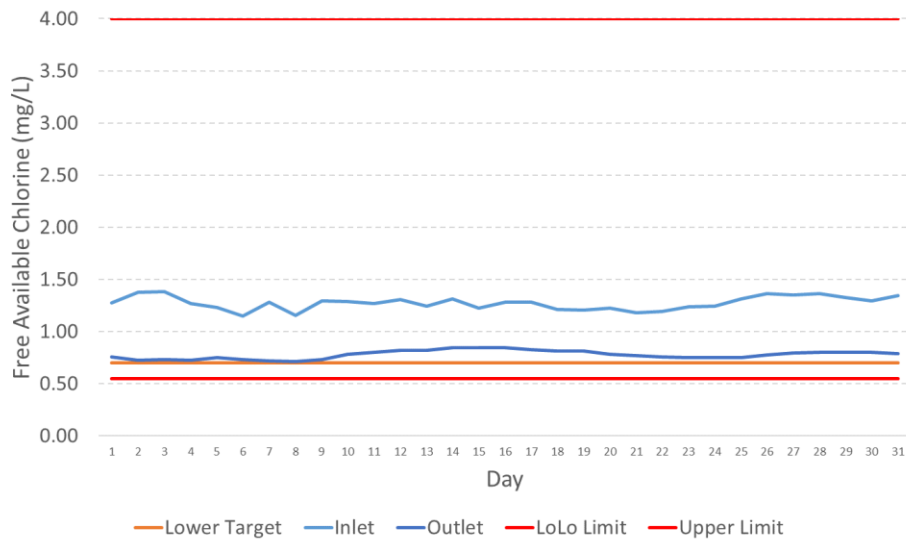
Wednesday, August 27 – Jeff Middlemiss from Blackrock Automation on-site to reauthorize permissions for SCADA control access (view-only vs. change) and reprioritize the automated critical alarm callout.

Wednesday, August 27 – Electricians returned to complete further work regarding the generator installation.

Friday, August 28 – Successful generator test conducted at raw water pump station.

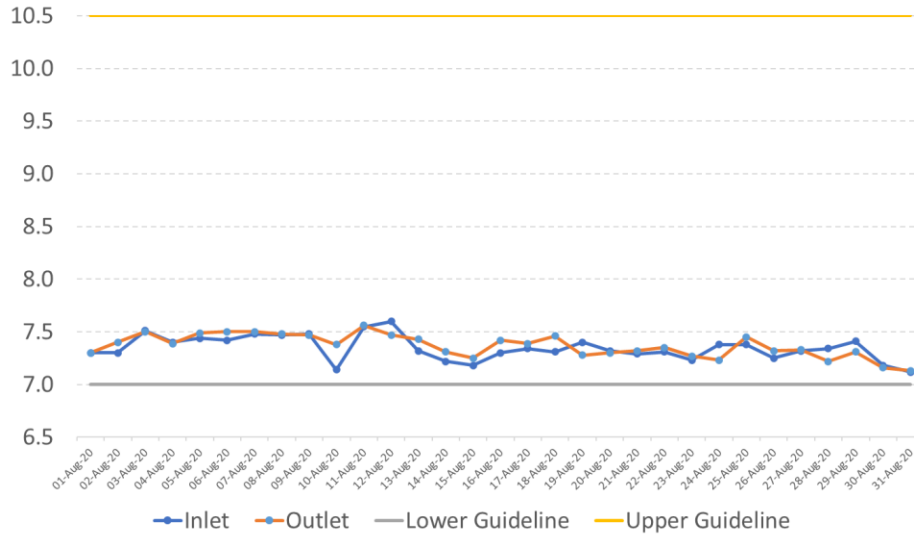
Water Quality Results

Free Available Chlorine (Aug 2020)
Source: SCADA Daily Averages

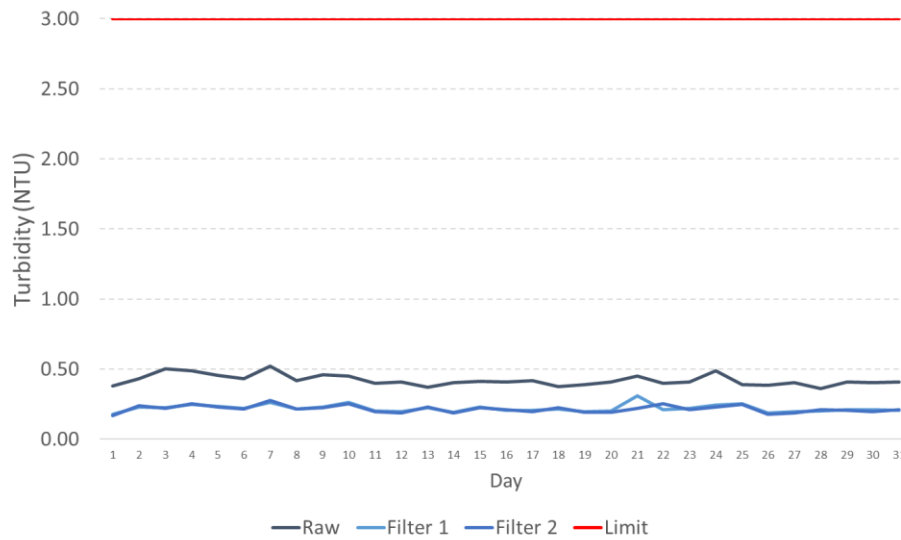




pH (Aug 2020) Source: Operator Testing

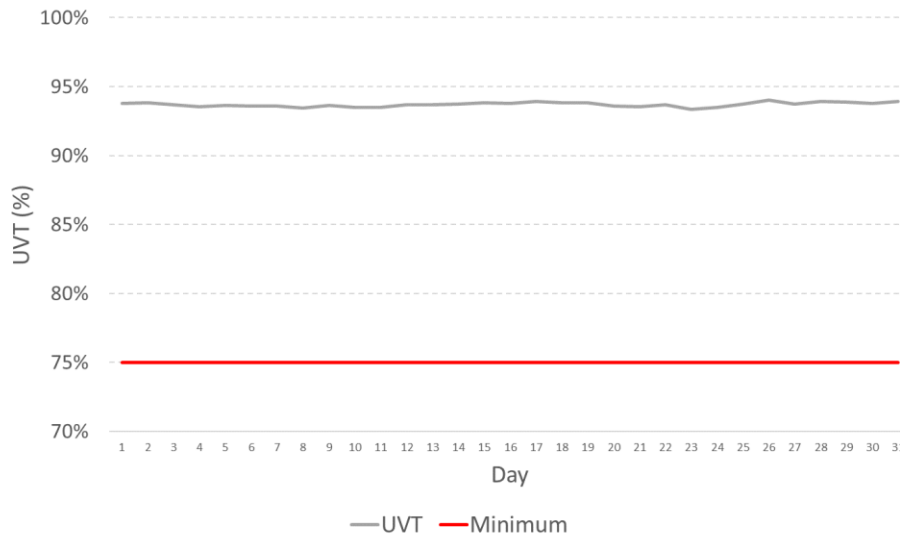


Turbidity (Aug 2020) Source: SCADA Daily Averages





UV Transmittance (Aug 2020) Source: SCADA Daily Averages



UV Dosage (Aug 2020) Source: SCADA Daily Averages

