



Memo

TO: Chair, Public Works and Engineering Services

FROM: Chief Administrative Officer

DATE: August 14, 2020

SUBJECT: Water Treatment Plant Update

Status

The Lake Cowichan water treatment plant (WTP) is in the last commissioning stages prior to being a fully operational facility in compliance with Federal and Provincial guidelines. Murray Sexton, P. Eng. Public Health Engineer with Island Health conducted an on-site inspection on Friday, July 17, 2020. He advised on August 11th, 2020 that the lab results were acceptable, and we can now expect issuance of an Operating Permit (OP) to replace the "Interim Operating Permit". The recommendation is to be forwarded to the local Environmental Health Officer for consideration of finalizing the WTP Operating Permit.

As Council is keenly aware, as part of our commitment to comply with the directives issued by Island Health, the Town of Lake Cowichan has welcomed Mike Hewitt as the new Chief Water System Operator. Mike began work for the Town on July 8th, 2020 and holds both Level IV water treatment certification and Level II in water distribution. He brings years of technical experience working at Metro Vancouver Seymour-Capilano filtration plant and in some other challenging locales. Mike is also a Bachelor of Science graduate from UBC. Mr. Hewitt has described our WTP as "a water plant that uses similar processes to SCFP in Vancouver. Both are direct filtration plants using many of the same chemicals along with UV disinfection."

No water quality warnings or advisories are currently in place for the Lake Cowichan water supply. The following link is the Island Health website for up to date advisories or notices pertaining to water systems under its authority.

https://www.healthspace.ca/Clients/VIHA/VIHA_Website.nsf/Water-List-Boil?OpenView&count=100

The next stage is for the Town to submit a monitoring program acceptable to the Environmental Health Officer for approval. Reference the lines of the 2nd paragraph in clause 4.4 of the Interim Operating Permit is to include the following:

- **free available chlorine** (tracked in SCADA, verified daily by operator)
- **pH** (tracked in SCADA, verified daily by operator)
- **temperature** (tracked in SCADA, verified daily by operator)
- **turbidity** (tracked in SCADA, verified daily by operator)

- **raw and treated bacteriological data** (to be collected weekly and sent to lab)
- **aluminium** (to be collected monthly and sent to lab)
- **THMs and HAAs** (to be collected quarterly and sent to lab)

- **flow** (tracked in SCADA, downloaded monthly)
- **daily UV dose** (tracked in SCADA, downloaded monthly)

- **daily CT values** (methodology to be confirmed) <-- Important step to be completed. Will coordinate with Stantec.

- **giardia and crypto monitoring** (optional - methodology to be confirmed)
- **metal analysis** (optional - methodology to be confirmed).

Conclusion

The Environmental Certificate Operators Programme (EOCP) had classified the WTP as a Facility 4 Plant. This programme also certifies water and sewer treatment operators.

On receipt of the attached email, a final application was made with valuable input from Mike Hewitt. The WTP is now classified as a Facility 3 water treatment plant.



Joseph A. Fernandez

Joseph Fernandez

From: no-reply@eocp.ca
Sent: July 28, 2020 2:31 AM
To: Joseph Fernandez
Subject: EOCP Reminder Facility Re-Classification Due - Town of Lake Cowichan Water Treatment Plant



July 28, 2020

Town of Lake Cowichan Water Treatment Plant (# 2357)

PO Box 860
Lake Cowichan, British Columbia, Canada
V0R 2G0

Dear Joseph Fernandez,

Our records indicate that your facility's classification has expired or is about to expire. In accordance with Best Practices across Canada, facility classifications have an expiration date, and need to be reclassified every five years, or sooner if there are any major process changes.

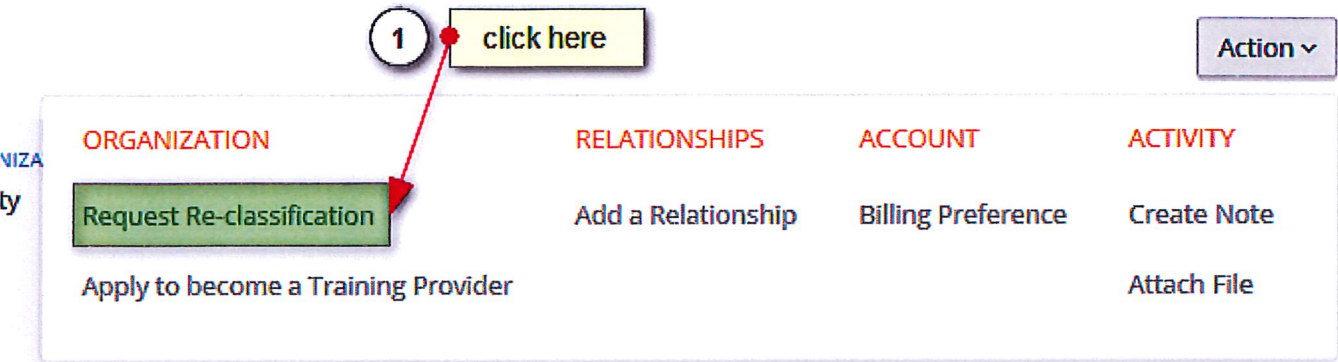
Steps to Reclassify:

To reclassify your facility, please click the link below these steps: If the link does not work, please login to your CRM profile and navigate to ACTION ITEMS, Applications, and click on the 'pending' facility classification application.

1. This will open up a Facility Classification Details form 'application'.
2. Page 1 - Please complete the Facility Classification Detail form, you will be able to save the form as draft until you are ready to submit it. Click 'Next'.
3. Page 2 - You will be asked to upload a schematic of your facility update operator and employee information. There is also a box for comments.
4. Page 3 - You will be asked to submit payment for reclassification before you are able to submit.
5. The form will be reviewed by EOCP. Upon its acceptance, your facility will be granted a Classification valid for 5 years.

Facility
Reclassification

Chief Operators and Person in Charge at a facility may reclassify at any time. From your facility's profile page, click the Action button, and select "Request Reclassification". The same process as outlined above will occur.



If you have questions about this request or the new Facility Classification models, please contact Jenni Green, P.Eng via jgreen@eocp.ca or 604.874.4784 x225.

With best regards,

Kalpna Solanki BSc MBA CPHI(C)
Chief Executive Officer
Environmental Operators Certification Program

If the link doesn't work, please copy and paste the following url into your browser:
<https://crm.eocp.ca/CRM/FacilityClassification/1/3716a3f9-f358-4ff4-a908-3aead86926f2/58/58/337819>

EOPC: #201 3833 Henning Drive, Burnaby, BC V5C 6N5

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