



Alter Station Final Submission Documents, Type A Water Licence Application

Wilson2, Anne (EC) <anne.wilson2@canada.ca>

Thu, Sep 26, 2019 at 11:17 AM

To: Derek Donald <derek.donald@nwb-oen.ca>, "Andrew.Tam@forces.gc.ca" <Andrew.Tam@forces.gc.ca>, "NATHAN.KOUTROULIDES@forces.gc.ca" <NATHAN.KOUTROULIDES@forces.gc.ca>, "Blade, Michelle (AADNC/AANDC)" <michelle.blade@canada.ca>, "Okonkwo, Godwin (AADNC/AANDC)" <godwin.okonkwo@canada.ca>, "Walker, Eva (EC)" <eva.walker@canada.ca>, Karén Kharatyan <karen.kharatyan@nwb-oen.ca>, Richard Dwyer <richard.dwyer@nwb-oen.ca>
Cc: "Tobin, Meagan (EC)" <meagan.tobin@canada.ca>, "Ruiiu, Cristina (EC)" <cristina.ruiiu@canada.ca>, "Williston, Georgina (EC)" <georgina.williston@canada.ca>, "Wilson2, Anne (EC)" <anne.wilson2@canada.ca>

Good morning,

We did not discuss discharge criteria for the parameters to be monitored; the purpose of the monitoring is to inform characterization of the wastewater (which is highly variable) while DND is figuring out the water balance and water management plan. All these pieces are needed to take forward for the package treatment plant technology selection. As we all know, there have been some very expensive and unsuccessful treatment plant efforts that have been done in NU, and it will be important to ensure the treatment system can handle the variable strength wastewater, and meet treatment targets.

Maintaining the current criteria until the treatment system is installed is one option; we would expect better and consistent effluent quality with lower criteria at that time, and would recommend ammonia as a regulated parameter for the new (mechanical) system. However, until that is installed, it may be more practical to maintain the higher limits (which may be more feasible with the planned wetlands treatment system upgrades) in the interim.

I have added thoughts on the other points in red text below. Let me know if any questions.

Thanks,

Anne

From: Derek Donald <derek.donald@nwb-oen.ca>

Sent: September 25, 2019 10:49 AM

To: Andrew.Tam@forces.gc.ca; NATHAN.KOUTROULIDES@forces.gc.ca; Blade, Michelle (AADNC/AANDC) <michelle.blade@canada.ca>; Okonkwo, Godwin (AADNC/AANDC) <godwin.okonkwo@canada.ca>; Walker, Eva (EC) <eva.walker@canada.ca>; Wilson2, Anne (EC) <anne.wilson2@canada.ca>; Karén Kharatyan <karen.kharatyan@nwb-oen.ca>; Richard Dwyer <richard.dwyer@nwb-oen.ca>

Subject: Alter Station Final Submission Documents, Type A Water Licence Application

Hi parties

As I am sure you are aware, the submission date for final summary documents is fast approaching (this Friday, September 27, 2019), with the Public Hearing record scheduled to close shortly thereafter. I wanted to touch base beforehand to ensure everyone has the same understanding.

I have a few points I want to flush out that were discussed at the Meeting held August 7, 2019, (Meeting Minutes attached), and I want to make sure I have a clear understanding of the "definitive goals and timelines" that were discussed.

You can quickly respond directly to this email and/or address these points in your final submission if you have not already done so.

1. Sewage Discharge Criteria.

Under Monitoring, "The main parameters to be sampled included BOD, ammonia, TSS, pH and oil and grease." Was it discussed that all of these parameters, specifically ammonia, would have discharge criteria? And if so, were limits discussed? Current discharge criteria area as follows:

Parameter	Maximum Concentration of any Grab Sample
BOD ₅	80 mg/L
Total Suspended Solids	70 mg/L
Oil and grease	5 mg/L and no visible sheen
pH	between 6 and 9

2. Interim Wastewater Management Plan developed for the Terrace Wetland system, functional until the Packaged Plant is operational. Was a date for submission discussed and/or when is a reasonable time for this to be developed? This needs to be developed in advance of selecting the mechanical treatment technology, and should be as soon as possible. In the meeting Aug. 7, 2019 CIRNAC recommended that having an interim wastewater management plan for the Station Alert terraced wastewater wetland treatment system to take DND to 2023 when the package wastewater treatment plant may be installed. ECCC supported this recommendation. DND noted that time constraints would mean plan submission would need to occur as a condition of the water licence terms – we ask that DND confirms the earliest timing for the plan to be submitted.

3. Site Water Balance. When would intervenes like to see this vs when can the Licensee reasonably produce this by?

Again, needed as soon as possible. DND has engaged a design consultant and are hoping to have flow monitors installed on the effluent outflow and throughout the station by the end of 2019. They hope to have the water balance by 2020. DND should confirm this timing.

4. Package sewage treatment plant. The expectation is that this will be operational by 2025, with updates on progress submitted with each annual report. Targets for effluent treatment will be presented to the Board for review and discussion by 2023. To be confirmed by DND.

5. Upgrades to Sewage Terrace Wetland. What are the expected timelines for this? DND advised that reconstruction of the terraced wetland is estimated for 2024 – to be confirmed by DND.

Please let me know if you need any clarification. We look forward to receiving your final summary documents.

Regards,

Derek



Derek Donald- ᐃᓄᐃᓐ ᐃᓄᐃᓐ

Technical Advisor - Conseiller technique ᐃᓄᐃᓐ ᐃᓄᐃᓐ ᐃᓄᐃᓐ
Pituaqnaqtuliginimun Ikavutit

NUNAVUT WATER BOARD - OFFICE DES EAUX DU NUNAVUT
ᐃᓄᐃᓐ ᐃᓄᐃᓐ ᐃᓄᐃᓐ - NUNAVUT IMALIRIYIN KATIMAYINGI

www.nwb-oen.ca

P.O. Box 119
Gjoa Haven, NU X0B 1J0

C.P. 119
Gjoa Haven, NU X0B 1J0

ᐃᓄᐃᓐ ᐃᓄᐃᓐ ᐃᓄᐃᓐ
ᐃᓄᐃᓐ ᐃᓄᐃᓐ ᐃᓄᐃᓐ X0B 1J0

Titigaqavua 119
Uqhuqhuq, NU, X0B 1J0

Tel / Téléphone / ᐃᓄᐃᓐ / Hivayautu: (867) 360-6338 | Fax / Télécopieur / hvJ4f3 / Fax-kut: (867) 360-6369
Toll Free / Sans / ᐃᓄᐃᓐ ᐃᓄᐃᓐ / Akiittuq: 1-855-521-3745

WARNING - This communication, including any attachments contains confidential information intended only for the addressee(s) noted above. Any unauthorized distribution, copying, or disclosure is strictly prohibited. If you have received this by mistake, please notify the sender immediately and delete this message without printing or copying it. Thank you.

AVIS DE CONFIDENTIALITÉ - Ce message, et toute(s) pièce(s) jointe(s) est confidentiel et est à l'usage exclusif du(es) destinataire(s) ci-dessus. Toute autre personne est par la présente avisée qu'il lui est strictement interdit de le diffuser, le distribuer ou le reproduire. Si le destinataire ne peut être joint ou vous est inconnu, veuillez informer l'expéditeur par courrier électronique immédiatement et détruire ce message et toute copie de celui-ci. Merci pour votre collaboration.

 Merci de penser à l'environnement avant d'imprimer ce courriel / Thank you for thinking of the environment before printing this email