



NWB Tools

Richard Dwyer <richard.dwyer@nwb-oen.ca>

8AC-ALT---- - DND Submission for ALT: 17-ESU-01 Alert Sewage Treatment

Andrew.Tam@forces.gc.ca <Andrew.Tam@forces.gc.ca>

Wed, Mar 6, 2019 at 1:35 PM

To: derek.donald@nwb-oen.ca

Cc: licensing@nwb-oen.ca, karen.kharatyan@nwb-oen.ca, NATHAN.KOUTROULIDES@forces.gc.ca, Tom.Gardner@forces.gc.ca

Hi Derek,

Good news, I managed to have the other DND group resubmit a better version of an Option Analysis Brief AND an email on Proposed Options Selection and for the public registry.

A new formal email for submission will follow shortly.

Thank you!

Andrew

From: Derek Donald [mailto:derek.donald@nwb-oen.ca]**Sent:** March 1, 2019 11:19 AM**To:** Tam A@CFB Trenton WENV@Trenton <Andrew.Tam@forces.gc.ca>**Cc:** Licensing Department <licensing@nwb-oen.ca>; Karén Kharatyan <karen.kharatyan@nwb-oen.ca>**Subject:** Re: 8AC-ALT---- - DND Submission for ALT: 17-ESU-01 Alert Sewage Treatment

Hi Andrew

Thank you for this information. For procedural fairness reasons, we will either 1) have to make this information public or 2) the DND will have to request another extension on submitting the complete information. Please provide a specific date of extension. It may also be beneficial to provide a very brief summary of the options and progress made on this commitment, for us to make public.

Please advise what you would like to do.

Feel free to give me a call if you have any questions, 867-360-6338 extension 32.

Thanks,

Derek

On Thu, Feb 28, 2019 at 9:57 AM <Andrew.Tam@forces.gc.ca> wrote:

Dear Manager of Licensing,

Regarding Commitment #1 – “DND provide options under consideration for the packaged sewage treatment system” to CIRNAC and ECCC; DND requested an extension to 28 Feb 2019 as the third party group providing the Options Analysis was unable to deliver the technical memo by 31 Dec 2018.”

Please find attached an email summary below of the Options Analysis and progress for the CFS Alert Sewage Terrace by the 3rd party tasked by the Licensee. DND sincerely appreciates the NWB and stakeholders' patience with this file.

This preliminary summary is informative for the NWB and the Stakeholders. DND anticipates the final Technical Document (with all attachments) to be received in April, and DND will then submit the document and issue an accompanying letter stating the potential option selected and decision. DND is committed in keeping the 8AC-ALT----- licensing process moving forward and on time.

For consideration, as the 3rd Party Group (ESU) is dealing with potential contractors and bidders, could this submission be limited to the stakeholders and the NWB audiences only?

Regards,
Andrew

Andrew Tam, Ph.D.
DND/8 Wing Environmental Management Officer
Andrew.Tam@forces.gc.ca

Sent from my wireless device.

From: Gardner Maj TJ@ADM(IE) RPO(North)@Ottawa-Hull <Tom.Gardner@forces.gc.ca>

Sent: Wednesday, February 27, 2019 9:31 AM

To: Koutroulides NG@CFB Trenton WENV@Trenton

Cc: Tam A@CFB Trenton WENV@Trenton

Subject: RE: 17-ESU-01 Alert Sewage Treatment

Gents, looking for concurrence that this is enough to go back to the NWB.

Tom

Major Tom Gardner

Deputy Chief of Staff RP Ops North, Canadian Forces Real Property Operations Group
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From: McKay GG@1 ESU@Kingston
Sent: February-25-19 3:48 PM
To: Leggatt Maj CJ@ADM(IE) RPO(North)@Ottawa-Hull <Christopher.Leggatt@forces.gc.ca>; Knapik LCol RM@ADM(IE) RPO(North)@Ottawa-Hull <ROBERT.KNAPIK@forces.gc.ca>
Cc: Fournier Maj VPC@1 ESU@Kingston <Veronique.Fournier2@forces.gc.ca>; Gardner Maj TJ@ADM(IE) RPO(North)@Ottawa-Hull <Tom.Gardner@forces.gc.ca>; Zanetti K@ADM(IE) RPO(North)@Ottawa-Hull <KATHRYN.ZANETTI@forces.gc.ca>; Hamill Sgt FE@1ESU@Kingston <Frank.Hamill@forces.gc.ca>; Koutroulides NG@CFB Trenton WENV@Trenton <NATHAN.KOUTROULIDES@forces.gc.ca>
Subject: 17-ESU-01 Alert Sewage Treatment

Major Leggatt, LCol Knapik,

Based on Major Gardner's out of office, I am sending this to you. As requested, this a preliminary report on options for sewage treatment in Alert to use for the water use licence meeting with the NWB on 28 February .

For package plant primary treatment options, we have been in contact with three different contractors for feasibility of a system given the data we have collected and the constraint of fitting the system in the existing building. The attached message contains Sgt Frank Hamill's summary of the responses he received from Pollution Control Systems and Simpson Environmental along with their submissions to us. I have been in contact with Lifewater Engineering from Fairbanks, Alaska, a sewage treatment plant design and fabrication company that specializes in applications that can be barged or flown to remote locations. Based on the information we provided, Lifewater is optimistic a system is feasible. I expect a proposal from them either this afternoon or tomorrow. These options will include a heat-traced outflow pipe that discharges at the bay to eliminate erosion.

A point to note is the presence of elevated FOG (Fats, Oil and Grease) numbers from samples collected at the sewage outfall that could cause problems with any of the proposed treatment systems. These numbers are despite a regularly maintained and operational grease trap in the kitchen. In communication with the Alert SCEO, it was determined that the garburated food waste is not passing through this grease trap and is suspected to be the cause of the elevated numbers. This process will be required to pass through a grease trap prior to entering the waste stream to ensure the success of any sewage treatment system.

As a back-up to the package plant system we propose an upgrade to the existing terrace system intended to reduce the surface erosion that is contributing to elevated total suspended solids content at the outflow into the bay. We are proposing the installation of anchored gabion baskets, lined on the uphill side with geofabric to prevent silt infiltration. Gabions would be used to replace the existing soil berms and a gabion wall would be installed along the ridge North of the terrace to channel the flow to the South over the gabion berms. Existing berms would be removed. The attached preliminary drawing indicates the locations of the gabion basket installations.

Greg McKay

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3/6/2019

Nunavut Water Board Mail - 8AC-ALT---- - DND Submission for ALT: 17-ESU-01 Alert Sewage Treatment