

From: [Sean Joseph](#)
To: ["Thomson, Barb"](#)
Cc: [Phyllis Beaulieu](#)
Subject: RE: 3BC-BAF0919, treated effluent at beach WTS
Date: Thursday, September 08, 2011 10:27:58 AM

Hi Barb,

In the interest of due diligence and in keeping with the terms and conditions of the Licence, I would suggest that analyses be conducted for all relevant parameters.

If changes to the Licence terms and conditions are being contemplated, an amendment application should be filed with and for approval by the Nunavut Water Board.

Please do contact me if you have any other questions.

Regards,
Sean

From: Thomson, Barb [mailto:Barb.Thomson@nasittuq.com]
Sent: Friday, September 02, 2011 9:05 AM
To: sjoseph@nunavutwaterboard.org
Cc: [Phyllis Beaulieu \(licensing@nunavutwaterboard.org\)](mailto:Phyllis Beaulieu (licensing@nunavutwaterboard.org))
Subject: 3BC-BAF0919, treated effluent at beach WTS

Hi Sean,

NWB Licence # : 3BC-BAF0919, Type B
Licensee: Dept of National Defence
Location: BAF-3 North Warning System radar site,
Brevoort Island, Qikiqtani Region, Nunavut

At BAF-3 radar site, the water treatment system (WTS) at the beach is being used to treat the water-fuel mixture from the spill. The results are attached.

Page 3, column entitled "Post Beach" contains results for:

- pH, phenols, total metals (arsenic, mercury, zinc);
- BTE, Oil & Grease; and
- PCBs.

Page 4, column entitled "Post-Beach (dissolved)" contains results for:

- dissolved metals (cadmium, chromium, cobalt, copper, lead, nickel).

The results show that the treated effluent meets all water license criteria except for pH. The pH is 9.7 which is outside of the allowed range pH 6 to 9. The pH has been adjusted and tested on-site with pH paper. A sample of the pH adjusted effluent has been sent to the lab. for analysis.

My question is: Since the WTS has been proven to produce effluent within water license criteria except for pH, can we do a batch treatment as usual, but now do a pH adjustment on-site confirmed with pH paper on-site, and then discharge, without sending samples to the lab. for each batch?

Thanks,
Barb

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