



Water Resources
Nunavut Regional Office
P.O. Box 100
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May 8, 2018

Richard Dywer
A/Manager of Licencing
Nunavut Water Board
Gjoa Haven, NU, X0E 1J0

INAC reference
CIDM# 1219179

NWB reference
#1BR-RES1626

**Re: Indigenous and Northern Affairs Technical Review of BAF-5 Resolution
Island Long Term Monitoring Project, Indigenous and Northern Affairs-
Contaminated Sites Division Amendment Application 1BR-RES1626**

Dear Mr. Dywer,

Thank you for the email received on April 5, 2018 from the Nunavut Water Board concerning the above mentioned water licence application process. A technical memorandum is provided for the Nunavut Water Board's consideration. Comments have been provided pursuant to the Department's mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Indian Affairs and Northern Development Act*.

Please do not hesitate to contact me by telephone at 867-975-4568 or email at Lisa.Bachellier@aandc-aadnc.gc.ca for further comments or any questions.

Sincerely,

Lisa Bachellier
Water Resource Technician

c.c.: Ian Parsons A/Manager, Water Resources, INAC
Erik Allain, Director, Lands, INAC



Technical Memorandum

Re: Indigenous and Northern Affairs Technical Review of BAF-5 Resolution Island Long Term Monitoring Project, Indigenous and Northern Affairs- Contaminated Sites Division Amendment Application 1BR-RES1626

Applicant: Indigenous and Northern Affairs- Contaminated Sites Division
Project: BAF-5 Resolution Island Long Term Monitoring Project
Region: Qikiqtani Region

A. BACKGROUND

On April 5, 2018 the Nunavut Water Board (NWB or Board) provided notification to interested parties that Indigenous and Northern Affairs Canada- Contaminated Sites Division. (Licensee) had submitted a Type "B" water licence amendment application for # 1BR-RES1626 for the BAF-5 Resolution Island Long Term Monitoring Project. The Resolution Island BAF-5 project extent is

NW: Latitude: (61°35'46"N) Longitude: (64°40'22"W)
NE: Latitude: (61°36'0"N) Longitude: (64°37'48"W)
SE: Latitude: (61°35'2"N) Longitude: (64°38'16"W)
SW: Latitude: (61°34'46"N) Longitude: (64°39'38"W)

Resolution Island BAF-5 (Resolution Island) is located at the south-eastern tip of Baffin Island, just outside of the entrance to Frobisher Bay, approximately 310 km southeast of Iqaluit. The facility was constructed in 1953 and was abandoned in 1972 the site was then used primarily to transmit intercepted signals to southern military stations. The camp is located at (61°35'48"N) Longitude: (64°38'20"W)

After military use of the site terminated, several environmental assessments were conducted between 1985 and 1997 which, identified and delineated contaminants of concern including copper, cobalt, lead, and mercury.

A Resolution Island Remediation Design Report is included in Appendix D of the amendment application package. Project work is scheduled to start in the summer of 2018 for 2-3 months and possibly continuing in 2019, with the mobilization of equipment to site via sealift/barge. This upon completion, all equipment will be removed from the site via sealift/barge. Throughout the construction activities, personnel will be mobilized to and from site via fixed wing aircraft and/or helicopter using the on-site airstrip.



Construction activities are related to remediation and are stated in the BAF-5 Resolution Island Remediation Design Report

Construction activities will include the following:

- ☐ The supply and installation of two 900 millimetre diameter corrugated steel pipe culverts, including the removal of existing culverts
- ☐ Supply and installation of corrugated steel pipe culverts
- ☐ Supply of granular fill, supply of couplings
- ☐ The grouting of replacement culvert into the existing concrete headwall

The licensee will continue long term monitoring activities at Resolution Island, in accordance with the plan approved by the NWB. Year 15 of 25 of the Resolution Island Monitoring Program is planned for the summer of 2021 and year 25 of 25 is scheduled for the summer of 2031.

All interested parties were asked to review the new water licence application and provide technical comments by May 4, 2018.

B. RESULTS OF REVIEW

Indigenous and Northern Affairs Canada- Water Resource Division submits the following comments to the Nunavut Water Board for consideration:

1. Spill Contingency Plan

Recommendation:

INAC recommends a Spill Contingency plan should be submitted if a temporary camp is going to be built for operations. The plan should include but not limited to, the quantities and locations of fuels and or hazardous materials.

Prepared by Lisa Bachellier