

**DILLON**  
CONSULTING



**NUNAVUT WATER BOARD**

# **Application for Approval for the Use of Water or Deposit of Waste without a License**

**Isachsen Former High Arctic Weather Station (HAWS)**

**Ellef Ringnes Island, Nunavut**



May 5, 2022

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

Attention: Nunavut Water Board, Manager of Licensing

**Reference:** *Isachsen former High Arctic Weather Station (HAWS), Ellef Ringnes Island – Phase II/III Environmental Site Assessments*

Dear Sir/Madam:

Dillon Consulting Limited and Outcome Consultants Inc. (Dillon-Outcome) are pleased to submit this application for approval for the use of water or deposit of waste without a license for the Isachsen former High Arctic Weather Station (HAWS) Phase II/III Environmental Site Assessment, Qualitative Risk Assessment, and Remediation/Risk Management Options Evaluation Project. The Project is located at the Isachsen former High Arctic Weather Station (HAWS) on Ellef Ringnes Island, approximately 500 km northwest of Resolute, Nunavut. Dillon-Outcome is also applying for a Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) land use permit. The Site is located within the North Baffin Land Use Plan, and all applications have been submitted to the Nunavut Planning Commission (NPC).

Dillon-Outcome will undertake field assessments in 2022 using the Isachsen High Arctic Weather Station (HAWS) campsite as a staging area to conduct environmental site assessments at two other sites on Ellef Ringnes Island (Cape Isachsen & Kristoffer Bay) that will be accessed by helicopter. The work undertaken at Isachsen will be in support of previous activities completed under NPC #148587. The primary focus of the two-year program is centered around the assessment of AECs and APECs with a secondary focus on obtaining information to support preliminary remediation planning. Please note that a current Land Use Authorization exists for similar activity (Permit No. N2017X0015), for the same location/intended site use.

Assessment of the soil and groundwater conditions at the site will consist of minimal intrusive work. Soil samples will be collected using hand shovels from small test holes dug to approximately 0.3 metres below grade. Test holes will be back filled at the site prior to leaving the site. The field program will not involve any heavy equipment. Transport in and out of the site will be via Twin Otter aircraft. A temporary camp will be set up in June to house 12 people for approximately 20 days in July in the same location as under the previous permit (on the north side of the airstrip at the west end). The application for approval for the use of water or deposit of waste without a license is required to support the field camp.

1558 Willson Place  
Winnipeg, Manitoba  
Canada  
R3T 0Y4  
Telephone  
204.453.2301  
Fax  
204.452.4412

Dillon Consulting  
Limited

May 5, 2022

Water for washing and bathing will be required from a local water source. Water use will be limited to approximately 2.0 m<sup>3</sup> per day. Water will be extracted using a pump and stored in a 950 L storage tank. A nearby pond or melt stream near the camp will be utilized. Potable water will be transported to the site with the camp.

Grey water from washing activities will be released back to the site in a hand dug soakaway pit located a minimum of 30 m from any water body. Blackwater will be solidified and transported off-site for appropriate disposal. All other solid waste will also be transported off-site for appropriate disposal.


Please find enclosed the following:

- A completed application form; and
- Appendix A – translated cover letter in Inuktitut (Nattilingmiutut dialect).

If you have any questions regarding the enclosed application, please contact the undersigned at your convenience.

Sincerely,

**DILLON CONSULTING LIMITED  
OUTCOME CONSULTANTS INC.**



Indra Kalinovich, Ph.D., C.Chem.

Off-Site Project Manager

[ikalinovich@dillon.ca](mailto:ikalinovich@dillon.ca)

Cell: 204-292-3463

RJE:MJ

Our file: 21-2370

# Application Form

Nunavut Water Board

***Application for Approval for the Use of Water or  
Deposit of Waste without a License***

May 2022 – 21-2370





P.O. Box 119  
GJOA HAVEN, NU X0B 1J0  
TEL: (867) 360-6338  
FAX: (867) 360-6369

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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYIT  
OFFICE DES EAUX DU NUNAVUT

## APPLICATION FOR APPROVAL FOR THE USE OF WATERS AND/OR DEPOSIT OF WASTE WITHOUT A LICENCE

*Refer to Guide 9 - Approval for the Use of Waters and/or Deposit of Waste Without a Licence .*

<b>APPLICATION NO:</b> (for NWB use only)	
<b>1. APPLICANT CONTACT INFORMATION</b> (name, address)  Name: <u>Indra Kalinovich</u> Title: <u>Partner</u> Company: <u>Dillon Consulting Limited</u> Address: <u>1558 Willson Place</u> <u>Winnipeg, MB R3T 0Y4</u> Phone: <u>(613) 729-2402 x222</u> Fax: <u>(204) 452-4412</u> e-mail: <u>ikalinovich@dillon.ca</u>	<b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)  Name: _____ Title: _____ Company: _____ Address: _____ Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter)
<b>3. OWNER OF THE LAND ASSOCIATED WITH THE WATERS TO BE USED AND/OR THE WASTE TO BE DEPOSITED</b>  <input type="checkbox"/> Inuit Owned <input checked="" type="checkbox"/> Crown <input type="checkbox"/> Commissioner's	
<b>4. NAME OF PROJECT</b> (consistent with the name of the project issued by other regulatory agencies) <u>Isachsen former High Arctic Weather Station (HAWs), Ellef Ringnes Island - Phase II/III Environmental Site Assessment, Qualitative Risk Assessment, and Remediation/Risk Management Options Evaluation Project</u>	
<b>5. LOCATION OF UNDERTAKING</b>  <input type="checkbox"/> Kitikmeot <input type="checkbox"/> Kivalliq <input checked="" type="checkbox"/> Qikiqtani  <b>Project Extents</b>  NW: Latitude: (78°47'38" N)      Longitude: (103° 35' 19" W) NE: Latitude: (78°47'38" N)      Longitude: (103° 29' 12" W) SE: Latitude: (78°46'54" N)      Longitude: (103° 29' 12" W) SW: Latitude: (78°46'54" N)      Longitude: (103° 35' 19" W)  <b>MAP</b> - Attach a topographical map, indicating the main components of the undertaking.  NTS Map Sheet No.: <u>069F13</u> Map Name: <u>NA</u> Map Scale: <u>1: 50 000</u>	

<p><b>Camp Location(s)</b></p> <p style="text-align: center;">Latitude: (   °   '   " N)      Longitude: (   °   '   " W)</p> <p><b>Name and number of the Water Management Area (Watershed) in which the Undertaking is located.</b> (Please see Appendix D of the Guide and Schedule 4 of the Regulations):</p> <p style="text-align: center;">Name: <u>Sverdrup Islands watershed</u>      Number: <u>58</u></p>			
6.	<p><b>Previous Approvals or Licences Associated with Undertaking</b> ("Type A", "Type B" or Approval Without a Licence; it should be noted that in accordance with Guide 9, the NWB cannot issue more than one authorization for the same undertaking)</p> <p><input type="checkbox"/> <b>NA or</b></p> <p>Previous Licence/Approval Number: <u>8WLC-IHA1314</u></p> <p><i><u>The Board reminds the Applicant that as stated in s. 46 of the NWNSRTA, the expiry or cancellation of any previous licence does not relieve the holder from any outstanding obligations imposed under the licence.</u></i></p>		
7.	<p><b>CLASSIFICATION OF UNDERTAKING</b> - Indicate the classification of undertaking by checking one of the following boxes.</p> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> Industrial  <input type="checkbox"/> Mining  <input type="checkbox"/> Municipal  <input type="checkbox"/> Power </td> <td style="vertical-align: top;"> <input type="checkbox"/> Agricultural  <input type="checkbox"/> Conservation  <input type="checkbox"/> Recreational  <input checked="" type="checkbox"/> Other: (describe)  <u>Environmental Site Assessment</u> </td> </tr> </table> <p>See Appendix C of Guide 9 for descriptions of classifications of undertakings.</p>	<input type="checkbox"/> Industrial <input type="checkbox"/> Mining <input type="checkbox"/> Municipal <input type="checkbox"/> Power	<input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Other: (describe) <u>Environmental Site Assessment</u>
<input type="checkbox"/> Industrial <input type="checkbox"/> Mining <input type="checkbox"/> Municipal <input type="checkbox"/> Power	<input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Other: (describe) <u>Environmental Site Assessment</u>		
8.	<p><b>DESCRIPTION OF UNDERTAKING AND EQUIPMENT USED</b> – Provide a brief description of the undertaking including a description of any equipment that will be used in using water or depositing waste.</p> <p>An environmental site assessment involving sampling of soil and water within the former Isachsen High Arctic Weather Station (now abandoned) to determine presence/absence of impacts to soil and water resulting from operation of the weather station. Soil samples will be collected via hand shovel from small test holes approximately 0.30 metres deep. Transport in and out of the site will be via Twin Otter aircraft. A soft-sided temporary camp to house 12 persons for approximately 20 days will be set up. Potable water will be transported to the site with the camp. Water for washing and bathing will be required from a local water source (i.e., melt water pond or nearby stream). We anticipate approximately 2.0 m3 of water per day will be required for camp operation. Water will be extracted using a pump and stored in a 950 L storage tank. 2 ATVs will be on site to help transport our handheld equipment and samples across the site. No intrusive excavation machinery will be operated during this assessment.</p>		
9.	<p><b>SCHEDULE</b> – Applicants are advised that approvals without a licence are issued for a one-year term.</p> <p>Proposed Start Date: <u>08/05/2022</u>      Proposed Completion Date: <u>31/04/2023</u>  <span style="margin-left: 100px;">(Day / Month / Year)</span> <span style="margin-left: 100px;">(Day / Month / Year)</span></p>		
10.	<p><b>TYPE OF USE OF WATERS WITHOUT A LICENCE PROPOSED</b> - Check the box that</p>		

applies to the type of water use proposed. If none of the water uses listed below applies to the proposed water use, an application for a water licence will be required. See the NWB's Guide 4 – Completing and Submitting a Water Licence Application for a New Licence.

- ☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a structure across a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of construction.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of an intermittent watercourse.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of training.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves the infilling of the watercourse, if the watercourse has no inflow or outflow and a surface area of less than 0.5 hectares.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves removal or placement of less than 100 m<sup>3</sup> of material.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a temporary structure in a watercourse for the purpose of flood control.
- ☐ For an undertaking other than a Power undertaking and for any use of water related to the storage of 2,500 m<sup>3</sup> or less.
- ☒ For an undertaking other than a Power undertaking and for any use of water less than 50 m<sup>3</sup> per day.

**11. QUANTITY OF WATER INVOLVED** - For each type of water use indicated in Block 10, provide the source of water, the estimated quantity to be used in cubic metres per day, and the periods during which water will be extracted.

Type of Water Use indicated in Block 10	Name of Water Source(s)	Estimated Water Quantity (m <sup>3</sup> / day)	Period(s) During which Water will be Extracted	Location of Water Source(s) (Crown/IOL)
Any water use less than 50 m <sup>3</sup> /day	Unknown stream name/melt water pond	2.0 m <sup>3</sup> /day	Morning and evening	Unknown

**12. TYPE OF DEPOSIT OF WASTE PROPOSED** - Check the box that applies to the type of deposit of waste proposed. If none of the deposits of waste listed below apply to the proposed deposit of waste, an application for a water licence will be required. See the NWB's Guide 4 – Completing and Submitting a Water Licence Application for a New Licence.

- ☐ For an Industrial undertaking, for an activity related to hydrostatic testing or cleaning of storage tanks and pipelines, and for any deposit of waste resulting from hydrostatic testing or cleaning of unused storage tanks or pipelines.
- ☐ For an Industrial undertaking, for an activity related to quarrying and gravel washing, and for any deposit of waste that is not deposited to surface water and that results from quarrying or gravel washing above the ordinary high water mark.
- ☐ For a Mining undertaking, for an activity related to exploratory work, any deposit of sewage to a sump.
- ☐ For a Power undertaking, any deposit of sewage to a sump.
- ☐ For an Agricultural undertaking, any deposit of sewage to a sump.
- ☐ For a Recreation undertaking, any deposit of sewage to a sump.
- ☒ For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.

**13. TYPE AND QUANTITY OF WASTE INVOLVED** – For each type of waste indicated in Block 12, describe the quantity in cubic metres/day, measures to avoid or mitigate adverse impacts, and periods of deposition.

Type of Waste indicated in Block 12	Quantity to be deposited in m <sup>3</sup> / day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited
Other type of undertaking, other than municipal	Greywater generated will equal to extraction 2 m <sup>3</sup> /day	Grey water will be directed to a soakaway pit >30m from any water body. The pit will be backfilled at the end of the project.	Morning and evening
Sewage	12 people for 20 days	Blackwater to be solidified and transported off-site.	Sewage to be hauled off-site.

**14. SIGNATURE**

I, Indra Kalinovich (print name), certify that the information given on this form is, to the best of my knowledge, correct and complete.

☒ Yes ☐ No



OR

I, \_\_\_\_\_ (print name), as an authorized representative of the Applicant, \_\_\_\_\_, certify that the information given on this form is, to the best of my knowledge, correct and complete.

☐ Yes

☐ No

I certify that the Nunavut Planning Commission's land use planning requirements under Article 11 of the Nunavut Agreement have been met.

☒ Yes

☐ No

I certify that the Nunavut Impact Review Board's development impact review requirements under Article 12 of the Nunavut Agreement have been met.

☒ Yes

☐ No

I certify that the proposed water use is of a type set out in column 2 of Schedule 2 of the Regulations that is further specified by column 3, in respect of an undertaking set out in column 1. See list in Block 10.

☒ Yes

☐ NA

☐ No

I certify that the proposed deposit of waste is an activity that is set out and then further specified in columns 2 and 3 of Schedule 3 of the Regulations, in respect of an undertaking that is set out in column 1 of Schedule 3. See list in Block 12.

☒ Yes

☐ NA

☐ No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of the watercourse whose waters are used.

☒ Yes

☐ No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Lands.

☒ Yes

☐ No

I certify that the proposed water use or deposit of waste will not affect the use of waters by a person who would be entitled to compensation under sections 58 or 60 of the *Nunavut Waters Nunavut Surface Rights Tribunal Act* (Act) if their use of these waters were to be adversely affected by an applicant for a licence.

☒ Yes

☐ No

I certify that a licence is not required for another use of water, or deposit of waste in respect of the proposed undertaking.

☒ Yes

☐ No

I have read and agree to comply with the following conditions outlined in sections 4(3), 5(4), 5(5) and 6 of the *Nunavut Waters Regulations*:

1. In the case of an applicant who has a mineral right and who intends to use waters or deposit waste in relation to that right, the applicant shall respect the priority conferred on Inuit by section 62 of the

Act as if that applicant had a licence for the use or deposit.

2. Measures must be taken prior to using water to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.
3. No waste is to be deposited to surface water or within 31 metres of the ordinary high water mark of any body of water.
4. The waste shall not contain more than 15 milligrams per litre of petroleum or petroleum product and must not have a visible hydrocarbon sheen.
5. Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of water or deposit of waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the use of waters and/or the deposit of waste.<sup>a</sup>
6. An applicant who is authorized under the Regulations to use waters or deposit waste without a licence shall:
  - a. maintain accurate and detailed books and records of:
    - i. the quantity of water, in cubic metres, used each day,
    - ii. the quantity, in cubic metres, of waste deposited each day,
    - iii. the type of waste deposited each day,
    - iv. where the waste is deposited,
    - v. the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,
    - vi. the methodology used to calculate or determine the information referred to in items (i) to (iv), and
    - vii. the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.
  - b. keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request;
  - c. submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within 30 days after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the use or deposit without a licence;<sup>b</sup> and
  - d. keep the books and records for two years after submitting the report describing the restoration of the site of the undertaking.

**Notes:**


<sup>a</sup> A site need not be restored prior to the end of the period authorized for the water use and/or deposit of waste without a licence, as required by Item 5, if the Board issues a licence for the use of water or deposit of waste on that site prior to the end of that period.

<sup>b</sup> An applicant need not submit the report referred to in Item 6 (c), to the Board if the applicant obtains the Board's approval for a use of water or deposit of waste without a licence, or a licence for a use of water or deposit of waste, on the same site within thirty (30) days after the last day of the period authorized for the use or deposit.

☒ Yes

☐ No

I understand that any approval granted by the Board for the use of water or deposit of waste without a licence will be authorized for a period of one year after the day on which the Board approves the Application. The use or deposit is not authorized until the Board approves the Application and it is only valid as long as the applicant is in compliance with the conditions set out in the declaration above.

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
I understand that if I have answered "No" to any of the above statements a water licence is required from the Nunavut Water Board prior to the use of water or deposit of waste.			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Indra Kalinovich	Partner		May 5, 2022
<b>Name (Print)</b>	<b>Title (Print)</b>	<b>Signature</b>	<b>Date</b>

## Appendix A

### *Translated Cover Letter in Inuktitut (Nattilingmiutut)*

Nunavut Water Board

*Application for Approval for the Use of Water or  
Deposit of Waste without a License*

May 2022 – 21-2370

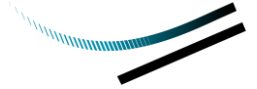


1558 Willson Place  
Winnipeg, Manitoba  
Canada  
R3T 0Y4  
Telephone  
204.453.2301  
Fax  
204.452.4412

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7/29/2022

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**DILLON CONSULTING LIMITED  
OUTCOME CONSULTANTS INC.**

Joel Kalinowski

Indra Kalinovich, Ph.D., C.Chem.

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[ikalinovich@dillon.ca](mailto:ikalinovich@dillon.ca)

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RJE:mj

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## Appendix B

### *NTS Map Sheet*

Nunavut Water Board

*Application for Approval for the Use of Water or  
Deposit of Waste without a License*

May 2022 – 21-2370





