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Draft

Miscellaneous
Supplemental Information Guideline (SIG)
for
General Water Works (including crossings,
trainings, flood control, diversions, and flow
alterations) (M1)

Document Management

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1.0 Introduction

This Supplemental Information Guideline (SIG) is for applicants seeking a water licence for water use, waste disposal, works and associated activities for General Water Work Development (including water crossings, trainings, flood control, diversions, and flow alterations) which is an undertaking classified as Miscellaneous in accordance with the *Northwest Territories Water Regulations* (NTWR or Regulations).

Supplemental information is required as part of the water licence application in accordance with section 48(2) of the Nunavut Waters Nunavut Surface Rights Tribunal Act (NWNSRTA or Act) which states:

“An application, except in relation to a cancellation, shall be accompanied by the information and studies concerning the use of waters or the deposit of waste that are required for the Board to evaluate the qualitative and quantitative effects of the use or the deposit on waters.”

Also, in accordance with section 48(3) of the Act, on the filing of an application, the Board may provide guidelines to the applicant respecting the information to be provided by the applicant in respect of any matter that the Board considers relevant, including the following:

- a) the description of the use of waters, deposit of waste or appurtenant undertaking, as the case may be;
- b) the qualitative and quantitative effects of the use of waters or the deposit of waste on the drainage basin where the use is to be undertaken or the deposit is to be made, and the anticipated impact of the use or deposit on other users;
- c) the measures the applicant proposes to take to avoid or mitigate any adverse impact of the use of waters or the deposit of waste;
- d) the measures the applicant proposes to take to compensate persons, including the designated Inuit organization, who are adversely affected by the use of waters or the deposit of waste;
- e) the program the applicant proposes to undertake to monitor the impact of the use of waters or the deposit of waste;
- f) The interests in and rights to lands and waters that the applicant has obtained or seeks to obtain; and
- g) the options available for the use of waters or the deposit of waste.

To provide further guidance for these requirements, as well as the requirements of section 6(2) of the Regulations which outlines more specific information requirements for proposed undertakings, the NWB has developed Supplemental Information Guidelines (SIGs or Guidelines).

The SIGs are designed in spreadsheet format to facilitate the development of a concordance table that cross references the requirements of the SIG with the documents that make up the water licence application package. The tables in the following five (5) worksheets include a column for the applicant to enter information regarding the applicability of the information requirement to the proposed undertaking and which document of the water licence application package the information requirement is addressed. Specific information about the proposed undertaking should not be inserted into these spreadsheets.

The applicant must complete the SIG and submit the completed SIG along with the documents that address the requirements of the SIG to the NWB.

Further to this SIG, the applicant is referred to the NWB's *Guide 4 - Completing and Submitting a Water Licence Application for a New Licence*. Guide 4 provides more details regarding completion of the NWB's minimum information requirements, information required to complete plans including designs and reports, executive summaries and translations, as well as how, when and who to contact when submitting a water licence application.

Following submission of a water licence application, the NWB will determine whether the application is complete. If the NWB determines that an application is materially incomplete, meaning that Items 1 to 6 of Section 2: Minimum Water Licence Application Package Requirements are missing, the applicant will be informed by the NWB that their application has been rejected. In other cases, NWB staff will correspond with the applicant to resolve deficiencies before proceeding.

The NWB cannot issue, amend, or renew a licence where there is an applicable, approved land use plan until the NPC's requirements under the NLCA have been addressed regarding land use planning (Article 11). In addition, the NWB cannot issue, amend, or renew a licence where the appurtenant undertaking requires screening by NIRB in accordance with Part 4 of Article 12 of the NLCA until NIRB has completed its screening. Furthermore, notwithstanding sections 13.5.5 or 12.10.2 of the NLCA, where the appurtenant undertaking requires a review under Part 5 or Part 6 of Article 12 of the NLCA, the Board may not issue, amend, or renew a licence until NIRB has issued a project certificate. For this reason, the applicant must provide the NWB with written confirmation that both NPC's and NIRB's requirements under the NLCA have been addressed.

The applicant is referred to Appendix A of these Guidelines for a list of additional documents, guidelines, legislation and standards that may be of use to the applicant in preparing the information to address this SIG.

Submission of the information required by this SIG does not relieve the applicant from confirming and following up on other information requirements which may be required during the regulatory process.

2.0 Water Licence Application Package

Provide a complete list of all documents that comprise the water licence application package using the checklist provided below. If a specific document is submitted as part of your water licence application, but is not listed below, provide a brief description in the cells provided.

No.	Check	List of Documents that Comprise the Water Licence Application Package
1	X	<u>General Water Licence Application Form</u> (see the NWB's <i>Guide 4: Completing and Submitting a Water Licence Application for a New Licence</i>) or <u>Application for Water Licence Amendment Form</u> , if appropriate (see NWB's <i>Guide 7: Licensee Requirements Following the Issuance of a Water Licence</i>). ^b
2	X	Completed Supplemental Information Guideline (SIG or Guideline). ^{a,b}
3	X	Executive summary in english. ^{b,h}
4	X	Translated executive summary in appropriate language and dialect. ^b
5	X	Application fee. ^b
6	X	Water use fee. ^b
7	<input type="checkbox"/>	Project Description.
8	<input type="checkbox"/>	Abandonment and Restoration Plan in accordance with Section 3, Item 21.
9	<input type="checkbox"/>	Emergency Response and Spill Contingency Plan in accordance with Section 6, Item 1.
10	X	1 in 50,000 Scale Project Map
11	X	Anuriqjuak Nukkiksautit Project Drawings
12	X	Catchment Map Drawing
13	X	NPC Determination Letter # 149782
14	X	NIRB Screening Decision Report 22XN052
15	X	NNC Anuriqjuak Nukkiksautit Project - Project Proposal 22XN052
16	X	Biophysical Impact Assessment High Displacement 22XN052
17	X	Biophysical Impact Assessment High Displacement_Aquatics Addendum
18	X	Biophysical Impact Assessment High Displacement_Avian Addendum
19	X	NNC Consultation Record
20	X	NNC Incorporation Document
21	X	Anuriqjuak Project - NNC Letter of Authorization
22	X	NNC Letter of Financial Responsibility for Water Crossing

Notes:

- a The SIG applies to applicants seeking a new water licence or an amendment to an existing water licence. The SIG does not apply to applicants seeking a strict water licence renewal.
- b Application packages that do not include items 1 to 6 listed above will be returned to the applicant as incomplete with a request for the deficient information.
- c If more than one licensable activity or facility is proposed that requires a water licence (eg. multiple water sources, waste deposits, structures, crossings, etc.) the required information must be provided for each activity or facility.
- d Information between all documents that make up the application package must be consistent and must be accurately cross referenced.
- e The application package must distinguish between recommendations or options and actual commitments to chosen alternatives.
- f Electronic documents must be less than 3MB and named according to the document title. For additional guidance regarding the submission of electronic documentation, see the NWB's *Guide 6: Electronic Documentation: Submissions and Registry*.
- g The applicant, where practical, may combine components of the information requested in the SIG into more concise plans to provide clarity and eliminate duplication. If this approach is taken, then the applicant must clearly outline, through proper referencing and clearly detailed statements, how the NWB should consider the documents that have combined elements of information. Information management is the responsibility of the applicant.
- h The applicant must submit a concise executive summary of the application package. In addition, the Applicant shall submit an executive summary for each separate supporting document, report or study. All executive summaries shall be provided in English, Inuktitut and/or Inuinnaqtun (where applicable).

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
1	Applicant	Provide the full name of the applicant and contact person including contact information (position, phone number, address, fax number and email address).	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable.
2	Applicant Representative	Provide the name and contact information of any party submitting the application on behalf of the applicant (including position, phone number, address, fax number and email address). Provide a signed letter authorizing a party to be the applicant's representative in the licensing process.	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable. To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable.
3	Name of Project	Provide the name of the project including the name of the project location.	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable.
4	Location of Undertaking	Provide coordinates of the project extents. Provide location by Latitude and Longitude (degrees, minutes and seconds). Provide location by UTM coordinates, if available. Provide the distances to the nearest communities. Indicate whether the drainage basin, in which the project is located, is shared with any other jurisdiction. If applicable, indicate which jurisdiction.	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable. To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable. UTM Zone 17 V 608478.93 m E, 6266680.78 m N Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal 22XN052) Anuriqjuak Nukkiksautiit Project Drawings Project Proposal (220815-22XN052-Project Proposal-IA2E) Anuriqjuak Nukkiksautiit Project Drawings (REV C dated 2023-03-02)
5	Map	Provide a map at a 1:50,000 scale based on the National Topographic Series indicating the location of the undertaking, watercourses and the location of waste deposits. Additional maps at various scales may be provided if those maps will provide additional information or clarification. All additional maps must indicate the scale, map sheet number, and location of north.	Attached 1:50,000 Scale Project Map
6	Nature of Interest in the Land	Provide the nature of the interest in the land associated with the proposed undertaking, including: Sub-surface leases from Nunavut Tunngavik Incorporated (NTI) and/or Indian and Northern Affairs Canada (INAC) as well as surface authorizations from INAC for crown land use, a Designated Inuit Organization (DIO) for Inuit Owned Land (IOL) use, or the Government of Nunavut for Commissioner's land use. Provide the permit or licence numbers; The date or expected date of issuance of any authorization and the date of expiry. Indicate whether the applicant is the name of the entity holding the authorization for the interest in the land and if not, provide the name of the entity holding the authorization.	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable.

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
7	NPC Determination	Provide written confirmation from the NPC confirming that NPC's requirements under the NLCA regarding land use plan conformity (Article 11 of the NLCA) have been addressed.	NPC Letter issued July 21, 2022 (NPC Determination Letter # 149782) is attached.

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
8	NIRB Determination	<p>Provide written confirmation from the NIRB confirming that NIRB's requirements under the NLCA regarding development impact assessment (Article 12 of the NLCA) have been or are in the process of being addressed. Documentation may include:</p> <ul style="list-style-type: none"> Written confirmation from NIRB that the project proposal does not require screening; NIRB's screening determination; If a review is required, NIRB's recommendation to the Minister regarding the type of review; If a review is required, the Minister's written decision regarding the review of the development proposal; If a review is required, NIRB's project certificate. <p>List of activities requested for exception in accordance with NLCA s. 12.10.2.</p> <p>Indicate whether any Type B water licence application is for an activity to be considered for interim, short term approval in accordance with NLCA s. 13.5.5.</p>	NIRB Screening Decision Report issued Nov 4, 2022 (NIRB Screening Decision Report 22XN052) is attached
9	Description of Undertaking	<p>Provide a complete description of the undertaking with detailed site plan(s) of all infrastructure. Differentiate any temporary components from permanent components. Consider the following in providing the description:</p> <ul style="list-style-type: none"> Camp (see the NWB's SIG for Tourist / Remote Camps (R1)); Transportation access routes; Fuel and chemical storage; Quarries / borrow pits; Existing on site infrastructure; Water intake Water storage Water distribution Bridges Culverts Pipelines Channel / bank alterations Spurs Erosion control Artificial accretion Ditches Dikes Dams Spillways Berms Cofferdams 	<p>Project Proposal (NNC Anuriqjuak Nukkiksautit Project - Project Proposal)</p> <p>Anuriqjuak Nukkiksautit Project Drawings</p>
10	Options (Alternatives)	Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.	Project Proposal (NNC Anuriqjuak Nukkiksautit Project - Project Proposal)
11	Other Applicable Supplemental Information Guidelines	<p>Indicate whether any other Supplemental Information Guidelines apply to the undertaking including the following:</p> <ul style="list-style-type: none"> Hydrostatic testing; Tannery; Tourist / remote camp; Landfarm and on-site storage of hydrocarbon contaminated soil; Onshore oil and gas exploration drilling; Mineral exploration/ remote camp; Advanced exploration; Mine development; Municipal; General Water Works; Power. 	<p>To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u>, whichever is applicable.</p>

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
12	Water Use	See section 5 of this SIG for specific requirements.	
13	Water Use: Quality and Quantity	See section 5 of this SIG for specific requirements.	
14	Waste Disposal	<p>Provide a detailed description of all types of waste and all forms of waste disposal including: (see the NWB definition of Waste in the NWB <i>Guide 2: Terminology and Definitions</i>)</p> <p>Dredged material;</p> <p>Hazardous waste including waste oil;</p> <p>Discharge from dewatered areas;</p> <p>Other: (describe).</p>	To be provided in the <i>General Water Licence Application Form</i> or the <i>Application for Water Licence Amendment Form</i> , whichever is applicable.
15	Waste Disposal: Quality and Quantity	<p>For each type of waste, provide the composition, chemical characteristics and quantity generated. Also provide the location, rate, timing, frequency and duration of the deposit.</p> <p>For each type of waste, provide the proposed methods and processes for collecting, storing, treating and discharging the waste. Indicate the capacity of these facilities.</p> <p>Provide a description of any measures to minimize the production of wastes.</p>	<p>Waste will not be deposited in any waterways. See Section 15 of main application for disposal methods.</p> <p>Waste will not be deposited in any waterways. See Section 15 of main application for disposal methods.</p> <p>Waste will not be deposited in any waterways. See Section 15 of main application for disposal methods.</p>
16	Other Authorizations	<p>Provide a list of any authorizations required in relation to the project in addition to the water licence. For each additional authorization required for the project, provide the name of the authorization, the administering agency, the project activity requiring the authorization, the date or expected date of issuance and the date of expiry.</p> <p>Provide a timetable for filing the appropriate plans and procedures required by other authorities.</p> <p>Provide a description of how those authorizations may affect the NWB's water licensing process.</p> <p>Provide formal applications to the Navigable Waters Protection Program (NWPP) for any works if applicable.</p> <p>Indicate whether the applicant/ licensee holds any existing water licences. If applicable, provide the licence number and expiry date of any existing water licences.</p>	<p>To be provided in the <i>General Water Licence Application Form</i> or the <i>Application for Water Licence Amendment Form</i>, whichever is applicable.</p> <p>See General Water Licence Application form</p> <p>Not expected to affect NWB water licensing process</p> <p>N/A</p> <p>None</p>
17	Predicted Environmental Effect and Proposed Mitigation Measures	<p>Identify the potential effect of water use and waste disposal on the following components:</p> <p>Groundwater and Surface Water including:</p> <p>Changes in flow (including seasonal rate of flow);</p> <p>Quantity;</p> <p>Quality;</p> <p>Land including:</p> <p>Geologic structure change;</p> <p>Soil contamination;</p> <p>Compaction, settling and erosion;</p> <p>Alteration of the permafrost regime;</p> <p>Riparian zone loss;</p> <p>Vegetation including:</p> <p>Species composition and abundance;</p> <p>Non-native species introduction;</p> <p>Accumulation of toxins and heavy metals (in relation to remediation objectives for closure);</p> <p>Aquatic Ecosystems including:</p> <p>Fish;</p> <p>Benthic invertebrates;</p> <p>Plankton.</p>	Biophysical Impact Assessment (Biophysical Impact Assessment High Displacement 22XN052), and addendums (Biophysical Impact Assessment High Displacement_Aquatics Addendum, Biophysical Impact Assessment High Displacement_Avian Addendum)

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
		See sections 4 and 5 of this SIG for specific information requirements.	

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
18	Existing and Other User Water Rights	<p>Provide the names, addresses, and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.</p> <p>Provide a description of any potential effects of the project on the persons or properties identified above.</p> <p>Provide a description of the measures incorporated into the project design to mitigate effects of the project on the persons or properties identified above.</p> <p>Indicate whether compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.</p>	N/A
19	Inuit Water Rights	<p>Provide a description of any potential effects of the project on the quality, quantity, or flow of waters flowing through Inuit Owned Land (IOL).</p> <p>Provide a description of the measures incorporated into the project design to mitigate effects of the project on the quality, quantity, or flow of waters flowing through IOL.</p> <p>Indicate whether an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO); or if the parties have been unable to reach an agreement on compensation.</p>	N/A The project boundaries do not intersect any IOL
20	Consultation	<p>Provide a summary of any consultation meetings including when the meetings were held, where and with whom.</p> <p>Provide a summary of the results of consultation meetings including a list of concerns expressed and measures proposed to address concerns.</p>	Attached (NNC Consultation Record)
21	Security	<p>Provide a financial security assessment that is prepared in a manner consistent with principals respecting mine site reclamation and implementation found in the <u>Mine Site Reclamation Policy for Nunavut</u>, Indian and Northern Affairs Canada, 2002. The financial security assessment must include:</p> <p>An estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking;</p> <p>The cost of having the necessary reclamation work done by a third-party contractor if the operator defaults;</p> <p>Contingency factors appropriate to the particular work to be undertaken.</p>	N/A (see below)
	Abandonment and Restoration	<p>Provide a separate stand alone Abandonment and Restoration Plan for site facilities.</p> <p>The electronic version of the plan must be less than 3MB and named accordingly. Please see the NWB's <u>Guide 6: Electronic Documentation - Submissions and Registry</u> for more information.</p> <p>Provide a list and description of any existing abandoned or restored site facilities.</p>	Upon completion of construction the access road will become part of the municipal road system and is not therefore subject to closure or reclamation. Maintenance for road access will be managed by the proponent for their purposes only. Periodic upgrades or fixes will be completed when necessary. Written confirmation of the agreement with the Hamlet of Sanikiluaq will be forwarded when received.

3.0 Water Licence Application Form Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
22	Financial Information	<p>Provide a statement of financial responsibility.</p> <p>If the applicant is an entity for which audited financial statements are issued, a copy of the most recent audited financial statements must be attached to the statement of financial responsibility.</p> <p>Provide the name of the corporation, limited company or other business entity, with a list of the officers of the company and a copy of the Certificate of Incorporation or evidence of registration of the company name.</p>	<p>Financial Responsibility for Water Crossing The officers are Harry Flaherty, Peter Keenainak and S. Mathew Alainga</p> <p>Articles of Incorporation document for NNC attached (NNC Incorporation Document)</p>
23	Studies, Designs and Plans	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date. Attach copies if applicable.	To be provided in Section 2 of this SIG.
24	Proposed Time Schedule	Provide the proposed start and completion dates for each phase of development (construction, operation, closure) and any anticipated periods of seasonal shut down.	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable.
25	Proposed Term of Licence	Provide a proposed term of licence including the expected date of licence issuance and the expected date of licence expiry.	To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u> , whichever is applicable.
26	Annual Reporting	<p>If not using the NWB's <u>Standardized Form for Annual Reporting</u>, provide detailed information regarding the content of annual reports and a proposed outline or template of the annual report. The annual report should include the following:</p> <p>Water related monitoring results;</p> <p>A description of how the conditions in any NIRB screening decision related to the NWB mandate have been implemented;</p> <p>Any actions taken in response to direction provided by the Inspector.</p>	NA - Standard Form will be used
27	Renewals and Amendments	<p>If the application is for a renewal or amendment of an existing licence provide the water licence number and the date of water licence expiry.</p> <p>If the application is for a renewal or amendment of an existing licence, provide a compliance assessment/status report. This report must document the status of compliance for each condition of the existing water licence taking into consideration inspector dialogues and inspector directions, responses to inspector dialogues and inspector directions, spills that may have occurred, and any reporting requirements. The report must indicate when facilities were inspected by regulatory agencies and list any spills that may have occurred including a description, location shown on a map, and the action taken to address the affected area.</p>	<p>To be provided in the <u>General Water Licence Application Form</u> or the <u>Application for Water Licence Amendment Form</u>, whichever is applicable.</p> <p>N/A</p>

4.0 Baseline Information

No.	Section	Information Requirement
1	Environmental Setting	<p>Provide a description of the site using current detailed topographic survey maps and/or aerial photos where applicable. Maps, diagrams, and aerial photos must include accurate scales that allow the determination of distances between the objects depicted.</p> <p>Provide a description of the site history if it has been used in the past.</p> <p>Provide a description of the site conditions taking into consideration location, topography, geologic conditions, hydrologic characteristics, climate conditions and trends, seismicity, and permafrost conditions.</p> <p>Provide a description of the surface water regime and drainage area. Outline the drainage basin on an attached map.</p> <p>Provide a description of the usual break-up and freeze-up periods.</p> <p>For any watercourses affected by the application, provide (1) a description of the watercourse bed material, bank material, and bank vegetation; (2) the slope of the banks; (3) a description of the meander pattern; and (4) the following watercourse flow data in cubic meters per second:</p> <ul style="list-style-type: none"> Mean annual flow; Mean summer flow; Minimum summer flow; Minimum annual flow; Mean annual flood; Maximum summer flood; Mean summer flood. <p>Provide bathymetric information for water bodies affected by the application.</p> <p>Provide a description of the ground condition for design and engineering of earthwork infrastructure (if applicable, provide test pit/ drill hole logs and laboratory test results).</p> <p>Provide a description of the historical uses of the waters affected by the project.</p> <p>Provide a description of any traditional uses of water in the project area.</p> <p>Indicate whether fish, shellfish, or other wildlife are present and harvested in or near the project area and, if applicable, indicate the species harvested and the level of harvest.</p> <p>Provide a description of the geochemical tests which have been (or will be) performed on quarry or borrow material to determine the relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (ie. static test, kinetic tests).</p>

4.0 Baseline Information

No.	Section	Information Requirement
2	Fisheries	<p>The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm. Indicate whether the applicant has consulted with DFO and provide the results of any consultation.</p> <p>If applicable, provide baseline data and an evaluation of baseline data describing fish and fish habitat in the project area.</p> <p>If applicable, provide a fisheries assessment including:</p> <ul style="list-style-type: none"> Detailed area description (including photographic record); Description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble); Presence of sensitive habitats (spawning, migration corridors etc.); Description of aquatic and riparian vegetation; Fish community and lifestage present; Depth and width of watercourse; Max/min water flows, currents, tides; Turbidity and sediment loads (total suspended solids); Sport, commercial, subsistence fishery present.
3	Studies	<p>Provide a list of baseline studies, reports and plans relevant to the application that have been undertaken to date or are being planned taking into consideration the following:</p> <ul style="list-style-type: none"> Geotechnical studies; Geochemical studies; Water quality studies; Hydrological and hydrogeological studies; Traditional use studies; Aquatic studies; Meteorological studies;

Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
Anuriqjuak Nukkiksautiit Project Drawings
Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal) Biophysical Impact Assessment (Biophysical Impact Assessment High Displacement 22XN052), and addendums (Biophysical Impact Assessment High Displacement_Aquatics Addendum, Biophysical Impact Assessment High Displacement_Avian Addendum)
Catchment Map Drawing
N/A
Biophysical Impact Assessment (Biophysical Impact Assessment High Displacement 22XN052), and addendums (Biophysical Impact Assessment High Displacement_Aquatics Addendum, Biophysical Impact Assessment High Displacement_Avian Addendum)
N/A - The waterbodies are small, impractical to collect bathymetric information for the culvert crossings.
N/A
N/A
N/A
Biophysical Impact Assessment (Biophysical Impact Assessment High Displacement 22XN052), and addendums (Biophysical Impact Assessment High
N/A

<p>Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".</p>
DFO Request for Review was submitted on April 12, 2023. Results will be reported when available.
Biophysical Impact Assessment (Biophysical Impact Assessment High Displacement 22XN052), and addendum (Biophysical Impact Assessment High Displacement_Aquatics Addendum)
N/A
To be provided in Section 2 of this SIG.

5.0 Water Use Information Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
1	Water Use	<p>Provide a detailed description of all types of water uses including: (See the NWB definition of "use" in the NWB Guide 2: Terminology and Definitions)</p> <ul style="list-style-type: none"> (a) Obtain water for domestic purposes; (b) Obtain water for industrial purposes; (c) To cross a water course; (d) To alter the flow of water, or store water; (e) Flood control; (f) To divert a watercourse; (g) To modify the bed or bank of a watercourse; (h) Other: (describe). 	c) To cross a water course. Anuriqjuak Nukkiksautiit Project Drawings
2 a	Water Use: Quality and Quantity Water Intake <i>**Identify uses as either domestic or industrial**</i>	<p>Provide the name of the primary water source(s) as well as the name of any alternative water source(s).</p> <p>Provide a description of the source(s) of water and the location of the water source(s) as shown on a map.</p> <p>Indicate the type of water source(s) as lake, river, well, or other type.</p> <p>Provide a description of the quality of the water from the source(s) for each season (summer, fall, winter, spring).</p> <p>Provide the capacity of the water source(s).</p> <p>Provide the acquisition rate in cubic metres per day and cubic metres per year from each water source.</p> <p>Provide a description of the water intake method(s) including the intake facility, the operating capacity of the pump used, the details of any screening to exclude fish, and the distance the pump will be placed from the ordinary high water mark of the watercourse.</p> <p>Indicate whether water is drawn from the source(s) intermittently or continuously and if intermittently indicate during what months it is drawn and for what period it is drawn (days/weeks/months).</p> <p>Indicate the amount of water to be returned to the source(s).</p> <p>Provide a description of the methods to ensure water returned to any source is of an acceptable quality.</p> <p>Provide a description of any hydrostatic testing programs, including water sources, and treatment/disposal requirements. If applicable, refer to the NWB's SIG for Hydrostatic Testing.</p> <p>Provide a description of any measures to reduce water consumption.</p>	N/A
b	Water Storage	<p>Provide a description of any water storage facilities including the type (reservoir/pond, storage tank), location, design, and the water storage volume in cubic meters.</p> <p>If the water storage facility is a reservoir, indicate whether the reservoir is lined, the type of liner and when it was or will be installed.</p> <p>Indicate whether a storage reservoir is created in a natural channel. If applicable, provide plan and profile drawings of the reservoir including the size of the drainage basin upstream of the reservoir, topographical plan showing the drainage area boundary, number of hectares flooded, surface area of the reservoir at full capacity, storage capacity, and details of shoreline protection.</p> <p>Provide a plan showing representative cross sections of the reservoir.</p>	N/A

5.0 Water Use Information Requirements

No.	Section	Information Requirement	Indicate which document of the Water Licence Application Package, the Information Requirement is addressed. If the Information Requirement is not applicable, insert "NA".
c	<i>Water Distribution</i>	Provide a description of water distribution systems (ie. piped water, trucked) including the number of people on each system.	N/A
		For each phase of development, calculate the total water consumed per day (L/day) by multiplying the estimated number of persons on the system by the estimated average water consumption (Litres/ capita/day). Calculate the total water consumed for each individual distribution system if more than one is used (ie. piped water, trucked water).	N/A
d	<i>Watercourse Crossings</i>	Provide a description of any watercourse crossings including pipelines, bridges, culverts or roads and its purpose.	Anuriqjuak Nukkiksautiit Project Drawings
		Indicate whether a temporary detour road is required to construct the watercourse crossing. If applicable, provide a schematic drawing that shows the location of the proposed detour road, any watercourse crossings to be constructed to facilitate the detour road, and the type of crossing.	N/A
		Provide a plan of any watercourse crossing showing cross section and elevations.	Anuriqjuak Nukkiksautiit Project Drawings
e	<i>Watercourse Trainings</i>	Provide a description of any watercourse trainings including channel and bank alterations, culverts, spurs, erosion control, and artificial accretion, and its purpose.	N/A
f	<i>Flood Control</i>	Provide a description of any flood control structures and its purpose.	N/A
g	<i>Diversions</i>	Provide a description of any diversions including ditches and dikes, and its purpose.	N/A
h	<i>Alterations in flow</i>	Provide a description of any activities or structures that could alter the flow of a watercourse including dams, spillways, berms, cofferdams, and dikes, and its purpose.	N/A
		Indicate whether the natural storage capacity or water level of any lake or pond will be altered.	N/A
		If the alteration involves a dam, provide a plan showing the length, height, cross section and elevations of the dam and the location and preliminary designs of spillways, canals, sluice pipes, and any other outlet work.	N/A
i	<i>Dewatering</i>	Provide a description of dewatering programs, if planned, including estimated quantities, qualities, dewatering flow rates, methods and schedule of withdrawal, end use or discharge location.	N/A
j	<i>Identification</i>	Indicate whether there are any signs identifying past or present water intake, storage, distribution systems and/or waterwork structures presently in the project area.	N/A
k	<i>Modifications</i>	Indicate whether any changes are planned for the water intake, storage, distribution systems and/or waterwork structures. If applicable, see item 2 (l) of this section.	N/A