



NUNAVUT WATER BOARD

TYPE “A” WATER LICENCE NO: 3AM-COR2232

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Licence No: 3AM-COR2232

Pursuant to the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada*, the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

HAMLET OF CORAL HARBOUR

(Licensee)

P.O. BOX 30 CORAL HARBOUR, NUNAVUT, X0C 0C0

(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water or dispose of waste for a period subject to restrictions and conditions contained within this Licence renewal:

Licence Number/Type: **3AM-COR2232 / TYPE "A"**

Water Management Area: **HUDSON BAY ISLANDS WATERSHED (16)**

Location: **KIVALLIQ REGION, NUNAVUT**

Classification: **MUNICIPAL UNDERTAKING**

Purpose: **USE OF WATER AND DEPOSIT OF WASTE**

Quantity of Water use not
To exceed: **45,000 CUBIC METRES PER ANNUM**

Effective Date: **APRIL 04, 2022**

Expiry of Licence: **APRIL 03, 2032**

This Licence issued (Motion Number: 2021-20-P23-06) and recorded at Gjoa Haven, Nunavut, includes and is subject to the annexed conditions.

**Lootie Toomasie,
Nunavut Water Board, Chair**

APPROVED Daniel Vandal
BY: Minister of Northern Affairs

**APPROVAL
DATE:** _____

PART A: SCOPE, DEFINITIONS AND ENFORCEMENT

1. SCOPE

1. The Type “A” Water Licence No: 3AM-COR2232 (Licence) authorizes the Hamlet of Coral Harbour (Licensee) to use Water and dispose Waste in support of a Municipal undertaking, as classified under Schedule 1 of the Regulations, located within the municipal boundaries at the following approximate geographic coordinates:

Undertaking	Latitude	Longitude
Municipal	64°08'03” N	83°10'58” W

The scope of activities, works, and undertakings authorized in accordance with the terms and conditions of this Licence is as follows:

- a. Pumping of 45,000 m³ of Water *per* Annum at a daily rate of up to 2000 m³ from Post River to Water reservoir during open water season to support community needs;
 - b. Continued operation and maintenance of the following municipal facilities:
 - Water Supply Facility
 - Solid Waste Disposal Facility
 - Sewage Disposal Facility comprising
 - Sewage Containment Cell,
 - Wetland Treatment Area, and
 - Diversion Berms.
 - c. Roads management, watercourse crossings and culvert installations within municipal boundaries
2. This Licence is issued subject to conditions contained herein with respect to the use of Waters and the depositing of Waste of any type in any Waters or in any place under any conditions where such Waste or any other Waste that results from the deposits of such Waste may enter any Waters. Whenever new Regulations are made or existing *Regulations* are amended by the Governor in Council under the *Act*, or other statutes imposing more stringent conditions relating to the quantity, type or manner under which any such Waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be subject to such requirements; and
3. Compliance with the terms and conditions of this Licence does not absolve the Licensee from the responsibility for compliance with all applicable legislation, guidelines, and directives.





7. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as accepted by the Board or approved by the Board in writing.
8. The Licensee shall, within thirty (30) days of notification or within the timeframe specified by the Board, submit for review and/or the Board’s approval revisions to any plan that is unacceptable to the Board.
9. Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of the Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board shall also become part of the Licence. All relevant terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.
10. The Licensee shall review the Plans or Manuals referred to in this Licence as required by changes in operation and/or technology and modify the Plans/Manuals accordingly. Revisions to any Plan/Manual shall be submitted in the form of an addendum to be included within the Annual Report required under Part B, Item 1, complete with the lists of revisions detailing where significant content changes are made.
11. The Licensee shall immediately report to the NWT/NU 24-Hour Spill Report Line (867-920-8130) any spills of Waste, which are reported to or observed by the Licensee, which may have resulted from the operations of Water supply and Waste disposal activities.
12. Any communication with respect to this Licence shall be made in writing to the attention of:

Manager of Licensing
Nunavut Water Board
P. O. Box 119
Gjoa Haven, NU X0B 1J0
Telephone: (867) 360-6338
Fax: (867) 360-6369
Email: licensing@nwb-oen.ca

13. Any notice made to an Inspector shall be made in writing to the attention of:

Water Resources Officer
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0
Telephone: (867) 975-4284
Fax: (867) 979-6445



14. Unless otherwise directed by the Board in writing, the Licensee shall submit to the Board one (1) electronic copy of all reports, studies, and Plans generated for the works, activities, and undertakings under this Licence. All Reports, studies or Plans submitted to the Board by the Licensee shall include an executive summary in English, Inuktitut, and French.
15. The Licensee shall ensure that any document(s) or correspondence submitted by the Licensee to the Board is received by the Board and maintain on file a copy of the acknowledgment of receipt issued by the Manager of Licensing or his/her designate.
16. This Licence is assignable as provided for in section 44 of the *Act*.
17. The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence, or any other regulatory requirement.
18. The Schedules attached to this Licence provide details regarding the requirements associated with specific items in the main body of the Licence and are included in the Schedule to provide greater clarity and as an aid to interpretation for the Licensee. If the Board subsequently determines that an item in any of the Schedules requires revision in order to better reflect the intent and objectives of the Licence, the Board may at its discretion, and upon consulting and providing written notice to the Licensee and interested parties, revise the Schedule accordingly. Unless the Board directs otherwise, such revision may not necessarily be considered as an "Amendment" to the Licence.
19. Unless otherwise stated, references in the Licence to any specific legislation, policy, guideline or other regulatory requirement are deemed to refer to the regulatory requirement as may be amended or as may be expressly replaced by successor legislation, policy, guidelines or other regulatory requirements after the Licence is approved by the Minister.

PART C: CONDITIONS APPLYING TO SECURITY

1. The Licensee is not required to post reclamation security for the activities, works, and undertakings authorized under this Licence.

PART D: CONDITIONS APPLYING TO THE USE OF WATERS AND WATER MANAGEMENT

1. The Licensee shall obtain all fresh Water for the Municipal Undertaking, from Post River at Monitoring Program Station COR-1 using the Water Supply Facility, or as otherwise approved by the Board in writing.



2. The Licensee is authorized to withdraw up to 2,000 m³ of water *per* day from Post River during open water season for the annual resupply of the reservoir.
3. The annual quantity of Water used for all purposes from Post River shall not exceed forty-five thousand (45,000) cubic metres *per* annum, or as otherwise approved by the Board in writing.
4. The Licensee shall equip all Water intake hoses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw Water at a rate such that fish do not become impinged on the screen.
5. The Licensee shall not remove any material from below the ordinary High-Water Mark of any water body unless otherwise approved by the Board in writing.
6. The Licensee shall not cause erosion to the banks of any water body and shall provide necessary controls to prevent such erosion.
7. Sediment and erosion control measures shall be implemented prior to and maintained during the operation to prevent entry of sediment into Water.
8. The Licensee shall maintain the Water Supply Facility to the satisfaction of the Inspector.

PART E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT

1. The Licensee shall direct all Sewage to the Sewage Disposal Facility or as otherwise approved by the Board.
2. All Effluent discharged from the Sewage Disposal Facility at Monitoring Program Station COR-5 shall not exceed the following Effluent quality limits

Parameter	Maximum Concentration of any Grab Sample
BOD ₅	30 mg/L
Total Suspended Solids	30 mg/L
Fecal Coliforms	1 x 10 ⁴ CFU/dl
Oil and grease	No visible sheen
pH	Between 6 and 9

3. The Licensee shall provide notice to an Inspector annually upon commencing the monitoring program when flow is observed from either the Sewage Containment Cell, at monitoring station COR-3, or the Wetland Treatment Area, at monitoring station COR-5.



4. The Licensee shall deposit sewage sludge and solid waste to a licensed waste disposal facility.
5. The Sewage Disposal Facility shall be maintained and operated, to the satisfaction of an Inspector in such a manner as to prevent structural failure of the Sewage Containment Cell.
6. The Licensee shall maintain the Licensed Facilities to the satisfaction of an Inspector.
7. The Licensee shall dispose and permanently contain, all solid Wastes at the Solid Waste Disposal Facility or as otherwise approved by the Board in writing.
8. The Licensee shall segregate and store all hazardous materials and/or Hazardous Waste, waste oil and noncombustible Waste generated through the course of the operation within the Solid Waste Disposal Facility in such a manner as to prevent the deposit of deleterious substances into any Water, until such a time that the materials have been removed for proper disposal at a licensed waste disposal facility.
9. The Licensee shall provide a minimum of ten (10) days' notice to an Inspector, of the intent to open burn municipal Waste in accordance with the *Government of Nunavut's Environmental Guideline for the Burning and Incineration of Solid Waste (2012)*, at the designated location at the Solid Waste Disposal Facility, including the details of the types and quantity of Waste to be burned, proposed dates, protocols to be followed, ultimate disposal of residual ash and the person responsible for the activity.
10. The Licensee shall not open burn plastics, wood treated with preservatives, electric wire, Styrofoam, asbestos or painted wood to prevent the deposition of Waste materials of incomplete combustion and/or leachate from contaminated ash residual, from impacting any surrounding Waters, unless otherwise approved by the Board in writing.
11. The Licensee shall maintain records of all Waste removed from site and records of confirmation of proper disposal of removed Waste. These records shall be made available to an Inspector upon request.

PART F: CONDITIONS APPLYING TO MODIFICATIONS AND CONSTRUCTION

1. The Licensee shall submit to the Board for approval in writing, for-construction design drawings stamped and signed by a qualified Engineer, at least sixty (60) days prior to the construction of any dams, dykes or structures intended to contain, withhold, divert or retain Water or Waste.



2. The Licensee may, without written consent from the Board, carry out Modifications to the facilities or infrastructure authorized under this Licence, provided that such Modifications are consistent with the terms of this Licence and the following requirements are met:
 - a. The Licensee has notified the Board in writing of such proposed Modifications at least sixty (60) days prior to beginning the Modifications;
 - b. Such Modifications do not place the Licensee in contravention of the Licence or the Act;
 - c. Such Modifications are consistent with the NPC Land Use Planning and NIRB Screening Determinations;
 - d. The Board has not, within sixty (60) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - e. The Board has not rejected the proposed Modifications.
3. Modifications for which any of the conditions referred to above have not been met can be carried out only with written approval from the Board.
4. Applications for modifications shall contain:
 - a. A description of the facilities and/or works to be constructed;
 - b. The proposed location of the structure(s);
 - c. Identification of any potential impacts to the receiving environment;
 - d. A description of any monitoring required, including sampling locations, parameters measured, and frequencies of sampling;
 - e. Schedule for construction;
 - f. Drawings of Engineered Structures stamped by a Professional Engineer; and
 - g. Proposed sediment and erosion control measures.
5. The Licensee shall, within ninety (90) days from completion of Modification or construction of facilities and/or infrastructure associated with this Undertaking, submit to the Board a Construction Summary Report prepared by a qualified Engineer that includes, among other relevant information, as-built drawings, documentation of field decisions that deviated from original plans, and any information used to support these decisions.
6. The Licensee shall implement measures to ensure that all materials used in the construction of the facilities or infrastructure associated with the Undertaking are free of contaminants, to the extent that they do not cause harmful or significant effects to Water.
7. The Licensee shall, if contamination of surface and/or groundwater is encountered during construction and excavation, notify the Inspector immediately and implement the Spill Contingency Plan, referred to in Part H, Item 1.



8. The Licensee shall develop and implement measures necessary to prevent and mitigate erosion and/ or the release of sediment into Water during any construction activities associated with the Undertaking.
9. All activities shall be conducted in such a way as to minimize impacts on surface drainage, and the Licensee shall immediately undertake any corrective measures in the event of any impacts on surface drainage.
10. With respect to earthworks, the deposition of debris or sediment into or onto any water body is prohibited. These materials shall be disposed at a minimum distance of thirty-one (31) metres from the ordinary High-Water Mark in such a fashion that they do not enter the Water.
11. The construction or disturbance of any stream/lake bed or banks of any definable watercourse are not permitted, unless authorized by the Board in writing.

PART G: CONDITIONS APPLYING TO OPERATIONS AND MAINTENANCE

1. The Licensee shall implement the Plan entitled “Operation and Maintenance Plan for Coral Harbour Municipal Water Licence: Water Supply Facilities 2021” dated June 30, 2021 that was submitted with the Application and has been approved by the Board with the issuance of the Licence.
2. The Licensee shall implement the Plan entitled “Operation and Maintenance Plan for Coral Harbour Municipal Water Licence: Sewage Disposal Facilities 2021” dated June 30, 2021 that was submitted with the Application and has been approved by the Board with the issuance of the Licence.
3. The Licensee shall implement the Plan entitled “Operation and Maintenance Plan for Coral Harbour Municipal Water Licence: Solid Waste Disposal Facilities 2021” dated June 30, 2021 that was submitted with the Application and has been approved by the Board with the issuance of the Licence.
4. The Licensee shall submit along with 2022 Annual Report, an updated Operation & Maintenance Plan for Solid Waste Disposal Facility, to take into consideration comments and recommendations made during the licensing process.
5. The Licensee shall submit along with 2022 Annual Report, an updated Operation & Maintenance Plan for Sewage Disposal Facility, to take into consideration comments and recommendations made during the licensing process.



6. The Licensee shall review all Plans or Manuals referred to in this Part as required by changes in operation and/or technology and modify accordingly. Revisions are to be submitted in the form of an Addendum to be included with the Annual Report, unless directed otherwise by the Board or an Inspector.
7. The Licensee shall maintain all facilities approved under this Licence in accordance with applicable guidelines, procedures, and regulations and to the satisfaction of an Inspector.
8. An inspection of all engineered facilities associated with this Licence shall be carried out at least once annually, during open water season, by an Engineer (Civil, Municipal or Geotechnical). The Engineer’s report shall be submitted to the Board along with the Annual Report, including a cover letter from the Licensee outlining an implementation plan to address each of the Engineer’s recommendations.
9. The Licensee shall perform more frequent inspections of the engineered facilities at the request of an Inspector.

PART H: CONDITIONS APPLYING TO SPILL CONTINGENCY

1. The Licensee shall implement the Plan entitled “Hamlet of Coral Harbour, Environmental Emergency Contingency Plan”, dated April 2021 that was submitted with the Application and has been approved by the Board with the issuance of the Licence.
2. The Licensee shall prevent any chemicals, petroleum products or Wastes associated with the activities under this Undertaking from entering Water. All Sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres from the ordinary High-Water Mark of any adjacent water body and inspected on a regular basis.
3. The Licensee shall conduct any equipment maintenance and servicing in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other Waste and contain potential spills.
4. The Licensee shall, subject to Section 16 of the Regulations, report any unauthorized deposits of waste or foreseeable unauthorized deposits of waste and/or discharges of Effluent, and:
 - a. Employ the appropriate contingency measures outlined in the Environmental Emergency Contingency Plan referred to in Part H, Item 1; take whatever steps are immediately practicable to protect human life, health and the environment;
 - b. Report the incident immediately via the NWT/NU 24-Hour Spill Reporting Line (867) 920-8130 and to the Inspector at (867) 975-4284; and



- c. For each spill occurrence, submit to the Inspector, within thirty (30) days after initially reporting the event, a detailed report that provides the necessary information on the location (including the GPS coordinates), initial response action, remediation/clean-up, status of response (ongoing, complete), proposed disposal options for dealing with contaminated materials and any preventative measures to be implemented.
5. The Licensee shall, in addition to Part H, Item 4, regardless of the quantity of releases of harmful substances, report to the NWT/NU 24-Hour Spill Reporting Line, if the release is near or into a water body.

PART I: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall monitor the Water Supply, Sewage Disposal and Solid Waste Disposal Facilities authorized under this Licence in accordance with requirements included under [Schedule I](#).
2. The Licensee shall measure by instrument and record in cubic metres, the daily, monthly and annual quantities of Water extracted from Post River for all purposes at Monitoring Program Station COR-1.
3. The Licensee shall provide estimates in cubic metres, the daily, monthly and annual quantities of Sewage offloaded from trucks at Monitoring Program Station COR-2.
4. The Licensee shall take samples at Monitoring Program Stations COR-3, COR-4 and COR-5, a minimum of three (3) times annually, during spring melt, once approximately mid-way through the open water season, and once prior to fall freeze-up, and analyze for the parameters listed in [Schedule I](#) in accordance with Tables 1 and 2.
5. The Licensee shall take samples at Monitoring Program Stations COR-6 and COR-7, a minimum of three (3) times annually, during spring melt, once approximately mid-way through the open water season, and once prior to fall freeze-up, and analyze for the parameters listed in Schedule I in accordance with Tables 1 and 2.
6. The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of Water are utilized for all purposes and at all Monitoring Program Stations.
7. All sampling, sample preservation and analyses required under [Schedule I](#) shall be conducted in accordance with methods prescribed in the current edition of Standard Methods for the Examination of Water and Wastewater, or by such other methods approved by the Board.



8. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.
9. The Licensee shall update, and submit with the 2022 Annual Report, the Plan entitled “Environmental Monitoring Program and Quality Assurance/Quality Control Plan” dated April 2021, to include field pH and field temperature measurements during SNP sampling events.
10. The Licensee shall annually review the QA/QC Plan referred to in Part I, Item 9 and modify it as necessary. Revised QA/QC Plans shall be submitted to the Board with a current approval letter from an accredited lab and shall meet the standards set out in Part I, Items 7 and Item 8 of the Licence.
11. The Licensee shall include all of the data and information required by the Monitoring Program within the Annual Report, as required per Part B, Item 1 or as otherwise requested by an Inspector and/or by the Board.
12. Additional Monitoring may be requested by the Board and/or the Inspector.
13. The Monitoring Program and compliance dates specified in the Licence may be modified at the discretion of the Board in writing and do not necessarily constitute an Amendment to the Licence as defined in the Act.

PART J: CONDITIONS APPLYING TO CLOSURE AND RECLAMATION

1. The Licensee shall, at least six (6) months prior to decommissioning any facilities or upon submission of final design drawings for the construction of new facilities to replace the existing ones, submit to the Board for approval in writing a Closure and Reclamation Plan for the facilities being decommissioned. The Plan shall be prepared by an Engineer in accordance with the industry’s best practices and relevant guidelines and shall incorporate, where applicable, the following information:
 - a. Facilities being abandoned;
 - b. Maps delineating all disturbed areas and site facilities;
 - c. Environmental conditions existing before the use of the site;
 - d. Remediation objectives;
 - e. Any sites affected by waste spills and measures taken to remediate these sites;
 - f. An implementation schedule;
 - g. Type and source of cover materials;
 - h. Future use of the area;
 - i. Hazardous wastes;
 - j. Financing of the restoration/remediation costs.



2. The Licensee shall carry out progressive reclamation of any components of the project no longer required for the Licensee’s operations.
3. In order to promote growth of vegetation and the needed microclimate for seed deposition, all disturbed surfaces shall be prepared by ripping, grading, or scarifying the surface to conform to the natural topography.
4. Areas that have been contaminated by hydrocarbons shall be reclaimed to meet objectives as outlined in the Government of Nunavut’s Environmental Guideline for Site Remediation, January 2002. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out only upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector.
5. The Licensee shall complete the restoration work within the time schedule specified in an approved Closure and Reclamation Plan, or as subsequently revised and approved by the Board.

SCHEDULES

[Schedule A](#): Scope, Definitions, and Enforcement

[Schedule B](#): General Conditions

Schedule C: No Schedule for Security

Schedule D: No Schedule for Use of Water and Water Management Plans

Schedule E: No Schedule for Deposit of Waste and Waste Management

Schedule F: No Schedule for Modifications and Construction

Schedule G: No Schedule for Operations and Maintenance

Schedule H: No Schedule for Spill Contingency Planning

[Schedule I](#): Conditions Applying to Monitoring

Schedule J: No Schedule for Closure and Reclamation



Schedule A: **Definitions**

In this Licence No: 3AM-COR2232

“**Act**” means the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

“**Addendum**” means the supplemental text that is added to a full plan or report, usually included at the end of the document and is not intended to require a full resubmission of the revised report. It may also be considered as an appendix or supplement;

“**Amendment**” means a change to any terms and conditions of this Licence through application to the NWB, requiring a change, addition, or deletion of specific terms and conditions of the Licence not considered as a modification;

“**Analyst**” means an Analyst designated by the Minister under section 85 (1) of the *Act*;

“**Annually**” means, in the context of monitoring frequency, one sampling event occurring every 365 days with a minimum of 200 days between sampling events;

“**Application**” means, for the purposes of this License, the totality of the NWB Public Registry opened as a result of the filing of the Application to replace the expired Water Licence No: 3BM-COR1521;

“**Appurtenant Undertaking**” means an undertaking in relation to which a use of water or a deposit of waste is permitted by a licence issued by the Board;

“**Board**” means the Nunavut Water Board established under Article 13 of the *Nunavut Agreement* and under section 14 of the *Act*;

“**Calendar Quarter**” means divisions of the calendar year, comprised of three month intervals from January to December, inclusive (January – March, April – June, July – September and October – December);

“**Discharge**” means the release of any water or waste to the receiving environment;

“**Diversion Berms**” means the engineered diversion structures installed in the Tundra Wetland Area in 2008 to augment treatment capacity, and illustrated in Drawing “Issue for Addendum # 4”, dated May 7, 2008;

“**Effluent**” means treated or untreated liquid waste material that is discharged into the environment from the site water management facility such as a settling pond or a treatment plant;



“**Engineer**” means a professional engineer registered to practice in Nunavut in accordance with the *Consolidation of Engineers and Geoscientists Act S. Nu 2008, c.2* and the *Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12*;

“**Engineered Structure**” means any facility, which was designed and approved by a Professional Engineer registered with the Association of Professional Engineers, Geologists and Geophysicists of Nunavut;

“**Greywater**” means the component of effluent produced from domestic use (i.e. washing, bathing, food preparation and laundering), excluding sewage;

“**Hazardous Waste**” means materials or contaminant which are categorized as dangerous goods under the *Transportation of Dangerous Good Act (1992)* and/or that is no longer used for their original purpose and is intended for recycling, treatment, disposal or storage;

“**High Water Mark**” means the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land (ref. *Department of Fisheries and Oceans Canada, Operational Statement: Mineral Exploration Activities*);

“**Inspector**” means an Inspector designated by the Minister under section 85 (1) of the Act;

“**Licence**” means this Type “A” Water Licence No: 3AM-COR2232, issued by the Nunavut Water Board in accordance with the *Act*, to the Hamlet of Coral Harbour;

“**Licensed Facilities**” means the Water Supply Facility, Solid Waste Disposal Facility and Sewage Disposal Facility;

“**Licensee**” means to whom the Licence 3AM-COR2232 is issued to or assigned;

“**Minister**” means the Minister of Northern Affairs Canada;

“**Modification**” means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work;

“**Monitoring Program**” means the program to collect data on surface water quality and quantity to assess impacts to the environment of an appurtenant undertaking;

“**Monthly**” means, in the context of monitoring frequency, one sampling event occurring every thirty (30) days with a minimum of twenty-one (21) days between sampling events;

“**Nunavut Agreement**” means the “*Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada*,” including its preamble and schedules, and any amendments to that agreement made pursuant to it;



“Quality Assurance / Quality Control (QA/QC)” Quality Assurance means the system of activities designed to better ensure that quality control is done effectively; Quality Control means the use of established procedures to achieve standards of measurement for the three principal components of quality: precision, accuracy and reliability;

“Regulations” means the *Nunavut Waters Regulations (SOR/2013/669 18th April, 2013)*;

“Sewage” means all toilet wastes and greywater;

“Sewage Containment Cell” comprises the exfiltration Containment Cell built in 2003, and referred to in the Application dated May 18, 2021;

“Sewage Disposal Facility” comprises the exfiltration Containment Cell, Wetland Area and Diversion Berms designed to contain and treat sewage as described in the Application for Water Licence Renewal filed by the Applicant on January 16, 2015, and illustrated in Drawing “Issue for Addendum # 4”, dated May 7, 2008;

“Solid Waste Disposal Facility” comprises the area and associated structures designed to contain solid Waste as described in the Application and associated documents filed by the Applicant dated May 18, 2021;

“Undertaking” means an undertaking in respect of which water is to be used or waste is to be deposited, of a type set out in Schedule I of the *Regulations*;

“Use” means use as defined in S.4 of the Act;

“Waste” means, as defined in S.4 of the *Act*, any substance that, by itself or in combination with other substances found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means;

“Wastewater” means the water generated by site activities or originates on-site that requires treatment or any other water management activity;

“Water or Waters” mean water as defined in S.4 of the *Act*, inland waters, whether in a liquid or solid state, on or below the surface of the land;

“Water Supply Facility” means the area and associated intake infrastructure at the Post River, reservoir and pump-house, as described in the Design Brief (Exp. 2013) and illustrated in Design Drawings C3, E1 R00, PLN-MEC, COV, C1-SP, C2-PP, C4, S1 to S5, filed with the Application dated January 16, 2015.



“Wetland Treatment Area” comprises the area of land immediately downstream of the Sewage Disposal Facility as described in the report entitled *Report of the Natural Tundra Wetland Sewage Disposal Facility, Coral Harbour, NU*, prepared for Nunavut Water Board in support of Licence renewal application NWB #COR0207; Prepared by *Nunami Jacques Whitford Limited, Rankin Inlet, Nunavut, October 2007*, and also to include the engineered Diversion Berms installed in 2008, and illustrated in Drawing “Issue for Addendum # 4”, dated May 7, 2008.



Schedule B: Annual Reporting Requirements

The Annual Report referred to in Part B, Item 1, shall include the following:

- a. The daily, monthly and annual quantities in cubic metres of fresh Water withdrawn from Post River at Monitoring Station COR-1;
- b. The daily, monthly and annual quantities in cubic metres of any Sewage discharged into the Sewage Containment Cell at Monitoring Station COR-2;
- c. The annual quantities in cubic metres of sludge removed from the Sewage Disposal Facility;
- d. A summary report which includes all data and information generated under the Monitoring Program, including the QA/QC program, in electronic formats acceptable to the Board;
- e. A summary of modifications and/or major maintenance work carried out on the Water Supply, Solid Waste and Sewage Disposal Facilities, including all associated structures;
- f. A progress report and revisions (if applicable) to any studies requested by the Board that relate to Waste management, Water use or reclamation and a brief description of any future studies planned by the Licensee including, a non-technical executive summary for the general public, translated into Inuktitut;
- g. Any revisions required, in the form of addenda, to Plans, Manuals and Reports approved under the Licence;
- h. A list and description, including volumes, of all unauthorized discharges, spills and summaries of follow-up action taken;
- i. A summary of any closure and reclamation work undertaken and an outline of any work anticipated for the next year, including any changes to implementation and scheduling;
- j. A summary of actions taken to address concerns or deficiencies listed in the inspection reports and/or compliance reports filed by an Inspector;
- k. A summary of any studies, reports and plans requested by the Board that relate to Waste disposal, Water use or reclamation and a brief description of any future studies planned; and
- l. Any other details on the use of Water or Waste disposal requested by the Board by November 1st of the year being reported.



Schedule I: Conditions Applying to Monitoring

Table 1 – Water Quality Parameters

Test Group	Analytical Parameter	Unit of Measurement
Effluent (E)	pH (field and lab)	NA
	Conductivity (field and lab)	µS/cm
	Temperature (field)	°C
	Total Suspended Solids (TSS)	mg/L
	Biochemical Oxygen Demand	mg/L
	Fecal Coliform	CFU/100 mL
	Nitrate-Nitrite	mg/L
	Ammonia Nitrogen	mg/L
	Sulphate	mg/L
	Chloride	mg/L
	Total Hardness	mg/L
	Total Alkalinity	mg/L
	Total Phenols	mg/L
	Total Organic Carbon - TOC	mg/L
ICP Metals Scan (Total) (Me)	Al, As, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Na, Ni, Pb, Zn	mg/L
Hydrocarbons (H)	Total Petroleum Hydrocarbons (TPH)	mg/L
	Polycyclic Aromatic Hydrocarbons (PAH)	mg/L
	Benzene, Toluene, Ethylbenzene, Xylene (BTEX)	mg/L
Flow (F)	Volume	m ³



Table 2 – Water Quality Monitoring Criteria

Station ID	Description	Status	Parameter	Testing / Measurement Frequency	Reporting Frequency
COR-1	Raw Water intake At Post River	Active	F	Daily & Monthly	Annually
COR-2	Sewage Truck Release Point (Into the Containment Cell)	Active	F	Daily & Monthly	Annually
COR-3	Effluent discharge from Sewage Containment Cell	Active	F, E, Me	At spring melt, middle season and before freeze-up	Annually
COR-4	Effluent within the Wetland Treatment Area	Active	E, Me	At spring melt, middle season and before freeze-up	Annually
COR-5	Effluent discharge from Wetland (Compliance Point)	Active	E, Me	At spring melt, middle season and before freeze-up	Annually
COR-6	Run-off from the Solid Waste Disposal Facility	Active	E, Me, H	Once per month during open water season and during periods of observed flow	Annually
COR-7	Run-off below Waste metals area	Active	E, Me, H	Once per month during open water season and during periods of observed flow	Annually