

Water Licence Renewal Application

Licence number: 3BM-KUG 1520

Hamlet of Kugluktuk, NU

Submission: September 28, 2020

Prepared by:

Shah Alam, P. Eng. E.P.
*Municipal Planning Engineer,
Government of Nunavut
Community and Government Services
Cambridge Bay, Nu*



Department of Community and Government Services
Nunalingni Kavamatkunnilu Pivikhaqautikkut

Ministère des Services Communautaires et gouvernementaux

Renewal

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1L0
Attention: Richard Dwer, Manager of Licensing
RE: 3BM-KUG 1520 – Kugluktuk water Licence Renewal

Please find the enclosed package of 3BM-KUG 1520 NWB Water Licence renewal request for the Hamlet of Kugluktuk. We are pleased to mention updating of number of documents in respond to the request letter by the Board dated December 08, 2015 of the issuance of the current licence as below:

- Annual Report 2019 and all previous year reports
- Addendum to previously approved O&M manual 2014 of the sewage and wastewater facility
- Addendum to Spill Contingency Plan 2014 previously approved and active
- Update of O&M manual of new water intake system and new treatment plant

- Location of new water treatment plant at 67° 49' 35.32", latitude and 115° 05' 35.5" longitude
- Elimination of station **KUG-6** and **KUG-7**

A&R plan of old Lagoon: Effective monitoring program is not in the plan since the berm materials were pushed to infill lagoon area and levelled. Part of the old lagoon foot-print area covered by new lagoon berm toe and water flowing over this area is finally discharges to the station KUG-4 with parameters compliance. We request the Board to eliminate KUG-6 as no specific need for it using the new lagoon.

The lagoon berm foundation originally built on active layer permafrost and design intent to keep berm foundation on solid frost ground. Temperature were recorded until 2013 as available data and logger but after that data recording cables were not in such situation to continue recording. The licensee is requesting also to eliminate the monitoring station KUG-7 from the requirement in the renewal licence.



Department of Community and Government Services
Nunalingni Kavamatkunnilu Pivikhaqautikkut

Ministère des Services Communautaires et gouvernementaux

- Shah Alam, P. Eng. E.P. CAPM
Municipal Planning Engineer,
Government of Nunavut
Community and Government Services
Kitikmeot Region, Cambridge Bay, Nu
Phone: 867-983-4156, fax: 867-983-4124
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Hamlet Of Kugluktuk Kugluktuk Katimayeen

P.O. Box 271

KUGLUKTUK, NU X0B 0E0

Phone: (867) 982-6500

Fax: (867) 982-3060

September 11, 2020

Re: Authorization to act on our behalf

To whom it may concern;

Please note that we authorize Shah Alam, Municipal Engineer, to act on behalf of the Hamlet of Kugluktuk during the water license 3BM-KUG1520NWB renewal process.

Sincerely,

Kimberley Young

Interim SAO

Hamlet of Kugluktuk



Ministère des Services Communautaires et gouvernementaux

Naittuq Tuhaayakhaq

Kugluktumi Haamlatkut havaariyaat imiqtautiluhi, anaqtautit imaiyaqhugu imaalu iqqakuutaqtaqhutiglu nunagiyaptingni. Hapkua aulapkaqatuvaktut Imarmut Laisiqaghuta nakuuyumik aulaniaqtut December 07, 2020-mut. Nutaag imiqtarvik tuqhuangalu atuqtauliqtut iniqtaugami 2012-mi. Nutaag imarmik halummaqtirvia (WTP) iniqtauyuuq March 2017-mi imiqtarvia aulahimaittuq Kugluktumi kuugaanit. Aallakkut imiqtarvik agyaqattaqtaaqtumik hikumi igluuyaarluni aulavikhaa ahikkut imiqtarvingmut taryuqhunilaqikpat halumailruqaqatlunit imiqtaqtaanni kuugarmit. Inugiakhivallianiagullu imaqarumalutik, laisqaqtittiyut imiqtaquyiliqtut angigligubluu 90,000 m³-mut ukiuq tamaat taimaa tadjja naammagiyauyuq laisigiyaannut Type-B-mut.

Havaktauhimayuq anaqtautit kivirarvat tatattaaqtuq 126,000 m³-mik naammayuq nunaptingnut hivunikhamut ukiunut 20-nut. Anaqtaqtauhimayuq iglunit kiviraqtauhimayuq inmigut halummaqtiqpaktuq iluani ukiuraaluk upin'ngaamilu 8-ni tatqiqhiutini. Auyami nunamut maqipkaqhugu aniapkaqtauvaktuuq qayagiblutik halumailruit nunamungaqtailiblugit nuna nauvagiangat hiqiniqarnirlu hilamiinnarluk nakuuhaqhautigiyait. Qaffini ukiuni, kivirarvik maqiyuuq ilitturiyauyuq kivataanit puviqhunilu ilanginni ataanit. Nunavut Kavamangat havaktipagait ilitturiniaghugit huuq taimailiyaakhaa kangiqhipkautikhamik titirarniaqtut qanuqtut ahikkut pittaariakhaita maqihuiangat puviqtaruiangat. Ihuaqhaqtauyuuq puvirviit qupihimaniit Kavamatkut kaatulaatitaiblutik. Kivirarvik qayangnaluanngittuuq tatatihimaittumik, kihimi puqtalaaqtuq iluvruanga ihumaalutigiyauyuq tatattauvallaarumi. Haamlatkut havaqatigiyait Nunavut Kavamatkut Nunalingni Kavamakullu Ikayuqtiit ihuaqharnahuaqhugu akituvallaanngitumik.

Iqqakuurvik piqaqtuq tamayaqarvinik nunaqarvingmik qayangnaqtuqarviglu kivirarviugaluami atuqtauhimaliqtuq iqqakuurvik 2007-mit. Angigliyuummiriami iniqaqtuq hivuraanut akparnianut qaangagut kivirarviugaluap atuqtautaaqtuq hivunikhaani ukiuni qulini. Havigaligyuaqarvik kivataani iqqakuurviup atuqtaunginnaqtuq iniqtaugami 2007-mi. Tadjja, ihuaqhaqtauyariaqaliqtuq haniraanut angigligilirlugu taimaa atuqtauvagianganani hivunikhaani ukiuni qulini.

Auladjutit Nakuuhimadjutit maliktakhaq anaqtaqtautit halummaqtirut, iqqakuurvik Kiviyuqaqqat Qanuriliurutikhat parnaiyautit huli atuqtauyuuq havaktaugamik 2014-mi. Ilauyullu ukununga titiqqanut parnaiyautinullu tuniyauhimayuq Katimayinut nutaanguqtigublugit qanurinia, ilauruhia atuqpallauhia aulapkauhikhaalu. Auladjutit Nakuuhimadjutit maliktakhaq nutaanut IPU-nut tadjalu iniqtauyumut imarmik halummaqtirvianullu kangiqhipkautauyut Katimayinut piyumayaatigut titiraramik Laisikhaat piyaangat.



Application for Water Licence Renewal

Document Date: May 2011

Application Submission Date:

09/24/2020

Month/Day/Year

P.O. BOX 119
GJOA HAVEN, NUNAVUT
XOB 1J0
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NUNAVUT IMALIRIYIN KATIMAYIT
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYIT

OFFICE DES EAUX DU NUNAVUT

APPLICATION FOR WATER LICENCE RENEWAL

Your application may be classified as a **renewal** only if all operations remain the same as previously licensed and only the term of the licence requires change. If your application contemplates:

- a change to the volume of water authorized for use;
- a new activity related to water use or waste disposal;
- a new component related to water use or waste disposal;
- a change in predicted environmental impacts(s); and/or
- a change to any term or condition of the original licence

your application is **NOT** classified as a renewal but rather an amendment and will require submission of an Application for Water Licence Amendment. Licensees applying for combined renewal / amendment are also referred to the Application for Water Licence Amendment.

The applicant is referred to the NWB's Guide 7: *Licensee Requirements Following the Issuance of a Water Licence* for more information about this application form.

EXISTING LICENCE NO: 3BM-CAM 0914

1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB. **A renewal will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: [Hamlet of Kugluktuk](#)

Address: [P.O Box 271, Kugluktuk, Nunavut X0B 0E0](#)

Attn. [Kimberley Young, Senior Administrative Officer \(SAO\)](#)

Phone: [867-982-6505](#)

Fax: [867-982-3060](#)

e-mail: saokug@giniq.com

2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.

Name: Shah Alam, P. Eng.

Address: Municipal Planning Engineer
Community and Government Services (CGS)
Cambridge Bay, Helen Maksagak Centre, NU X0B 0C0

Phone: 867-983-4156

Fax: 867-983-4123

e-mail: salam@gov.nu.ca

(Attach authorization letter.)

3. NAME OF PROJECT

Is the name of the project the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the name of the project including the name of the location: _____

4. LOCATION OF UNDERTAKING

Is the location of the undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

Project Extents

NW: Latitude: (° ' " N)

Longitude: (° ' " W)

NE: Latitude: (° ' " N)

Longitude: (° ' " W)

SE: Latitude: (° ' " N)

Longitude: (° ' " W)

SW: Latitude: (° ' " N)

Longitude: (° ' " W)

Camp Location(s)

Latitude: (67°49'32" N)

Longitude: (115°05'42" W)

5. MAP

Are the locations of the main components of the undertaking the same as those considered in the existing licence?

☒ Yes ☐ No

Attach a topographical map, indicating the main components of the undertaking.

NTS Map Sheet No.: _____ Map Name: _____ Map Scale: _____

6. NATURE OF INTEREST IN THE LAND

Is the nature of the interest in the land the same as that considered in the existing water licence?

☒ Yes ☐ No

Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

Surface

☐ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Commissioner's Land Use Authorization
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Other _____

Date (expected date) of issuance: _____ Date of expiry: _____

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations:

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Is the undertaking located in the same land use planning area as that considered in the existing licence?

☒ Yes ☐ No

Indicate the land use planning area in which the project is located.

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> North Baffin | <input type="checkbox"/> Keewatin |
| <input type="checkbox"/> South Baffin | <input type="checkbox"/> Sanikiluaq |
| <input type="checkbox"/> Akunnig | <input checked="" type="checkbox"/> West Kitikmeot |

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy. _____

Does the proposed renewal change the original NPC conformity determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. _____

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy. _____

Does the proposed renewal change the original NIRB screening determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. _____

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

9. DESCRIPTION OF UNDERTAKING

Is the description of the undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

List and attach plans and drawings or project proposal.

10. OPTIONS

Are the alternative methods and locations that were considered to carry out the project the same as those considered in the existing water licence?

☐ Yes ☒ No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

11. CLASSIFICATION OF PRIMARY UNDERTAKING

Is the primary undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the primary classification of undertaking by checking one of the following boxes.

- | | |
|---|--|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) | |
| <input type="checkbox"/> Conservation | <input type="checkbox"/> Recreational |
| <input checked="" type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Miscellaneous (describe below): |
| <input type="checkbox"/> Power | |

See Schedule II of the *Northwest Territories Waters Regulations* for Description of Undertakings.

12. WATER USE

Is the type(s) of water use(s) the same as that considered in the existing water licence?

☒ Yes ☐ No

Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

- | | |
|--|---|
| <input checked="" type="checkbox"/> To obtain water for municipal purposes | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To obtain water for industrial purposes | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input type="checkbox"/> To cross a watercourse | <input type="checkbox"/> Flood control |
| <input type="checkbox"/> To alter the flow of, or store water | |
| <input type="checkbox"/> Other: _____ | |

13. QUANTITY OF WATER INVOLVED

Is the source of water the same as that considered in the existing licence?

☒ Yes ☐ No

Name of water source(s): Coppermine River
(show location(s) on map)

Is the quality of the water source and its available capacity the same as that considered in the existing licence?

☒ Yes ☐ No

Describe the quality of the water source(s) and the available capacity(s): _____

Is the overall estimated quantity of water to be used the same as that considered in the existing licence?

☒ Yes ☐ No

Provide the overall estimated quantity of water to be used: 90,000 cubic metres annually

Are the quantity(s) of water to be used from each source the same as those considered in the existing licence?

☒ Yes ☐ No

Provide the estimated quantity(s) of water to be used from each source: 90,000 cubic metres annually.

Are the quantity(s) of water to be used for each purpose the same as those considered in the existing licence?

☒ Yes ☐ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.): *not for other purposes except drinking and residential/institutional uses*

Are the method(s) of extraction the same as those considered in the existing licence? ☒ Yes ☐ No

Describe the method(s) of extraction:

- *Use twin intake Pumphouse operate by 3-phase power line and a back-up generator,*
- *Heat trace line inside the 150mm insulated HDPE pipe connected to pump*
- *Intake screen at the end of pipe submerged permanently inverted at 3.5 m depth from water surface*
- *Air burst line attach with water intake pipe for cleaning the clog of intake screen.*
- *Intake water deliver to feed water tank from where it feeds to sand filters and UV and then storage in treated water tank. Cl2 dosing into water drawing from treated water tank through truckfill outside.*
- *Use a storage reservoir for sedimentation and filtration naturally when high turbidity appears*
- *Use temporary hose and mobile shack for alternate ice water when salt intrusion appears in river water.*
- *The new water treatment plant also includes PAC (poly-aluminum chloride) as flocculant to raw water and then sediment of suspended particles when high turbidity in river water to reduce loads on sand filtration.*

Are the quantity(s) of water returned to source(s) the same as those considered in the existing licence?

☒ Yes ☐ No

Estimated quantity(s) of water returned to source(s): *water returns into the source resulting from snow melts in connected areas and continuity of river flow.*

Are the quality(s) of water(s) returned to source(s) the same as those considered in the existing licence?

☒ Yes ☐ No

Describe the quality(s) of water(s) returned to source(s):

- *During early summer, snow melts water from nearby upstream carry sandy silts from gravel rock and suspended solids that generate more turbidity to water.*
- *River water from upstream creek, lake and other water bodies carry dissolved salt and un-dissolved particles with water during mid-summer to fall.*
- *Snow melt water from nearby lands, hill, gravel pits with organic and sands during early summer.*

14. WASTE

Are the type(s) of waste(s) to be generated and/ or deposited the same as those considered in the existing licence?

☒ Yes ☐ No

Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

- | | |
|---|--|
| <input checked="" type="checkbox"/> Sewage | <input checked="" type="checkbox"/> Waste oil |
| <input checked="" type="checkbox"/> Solid Waste | <input checked="" type="checkbox"/> Greywater |
| <input checked="" type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input checked="" type="checkbox"/> Bulky Items/Scrap Metal | <input checked="" type="checkbox"/> Contaminated soil and/or water |
| <input checked="" type="checkbox"/> Animal Waste | |
| <input checked="" type="checkbox"/> Other (describe): used tires, waste woods, auto batteries, electric waste, plastic, papers etc. | |

15. QUANTITY AND QUALITY OF WASTE INVOLVED

Are the quantity(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the composition(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of treatment for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of disposal for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

For each type of waste indicated in Block 14, describe its composition, quantity in **cubic meters/year**, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
<i>Sewage</i>	<i>90%-95% water</i>	<i>60,000</i>	<i>Retention for 360 days, then discharge for natural remediation</i>	<i>Pump decant, also discharge through overflow pipe.</i>
<i>Solid waste</i>	<i>Food, paper, wood, can, plastic, cloth etc.</i>	<i>12,000</i>	<i>Compact and push down, cover with waste mix soil and granular.</i>	<i>House hold bin and collect by covered truck and dump on pile at location.</i>
<i>Hazardous</i>	<i>Battery, paint, switch, antifreeze, bulb etc.</i>	<i>500</i>	<i>Store in wooden box with plastic around until ship out</i>	<i>Ship to south with contractor</i>
<i>Bulky Items</i>	<i>Auto body, snow mobile, metal door, window and electronic</i>	<i>1,600</i>	<i>Pile on cell and smash to smaller pieces before cover with cover materials</i>	<i>Reusable items put in sea can and send by barge</i>
<i>Animal waste</i>	<i>Meat, bone, skin of caribou, muskox, char</i>	<i>60</i>	<i>Cover with granular cover materials</i>	<i>Store in cell on site</i>
<i>Waste oil</i>	<i>Engine oil, heating oil</i>	<i>140</i>	<i>Store in container with cover until ship out</i>	<i>Ship in container</i>

16. OTHER AUTHORIZATIONS

In addition to the sub-surface and surface land use authorizations provided in Block 6, are the same authorizations required as considered in the existing licence? **N/A**

☐ Yes ☐ No

For each provide the following:

Authorization: _____

Administering Agency: _____

Project Activity: _____

Date (expected date) of issuance: _____ Date of expiry: _____

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES

Are predicted environmental impacts of the undertaking and proposed mitigation measures the same as those considered in the existing water licence?

☒ Yes ☐ No

Describe direct, indirect, and cumulative impacts related to water and waste.

*No impact to environment in discharging sewage waste or dumping solid waste at respective facilities. As noted by Environment Canada (EC) in its submission on January 09, 2009, that effluent standards for sewage treatment should meet parameters set in the guidelines for discharge in the NWT and should met at the final discharge point of Sewage Lagoon (end-of-pipe) and not at the end of wetland. NWB limits the quality of effluent for the lagoon discharge that is consistent and in compliance with Section 36(3) of the **Fisheries Act**.*

Sewage Waste:

The new sewage lagoon with approximate capacity of over 126,000 m3 for 20 years life cycle. It has increased the retention time in the lagoon for over 360 days. There is always water over the maximum thickness of sludge when it is fully discharged, this prevent 'flow through' of sewage during the period of discharge and maintain active effluent treatment continuous during discharge.

Solid waste and landfill:

The solid waste site covers an area approximately 1.2 ha, also has expanded additional space near the lower gradient for current and future needs. The facility includes a contaminated soil storage lined cell, a hazardous storage area for metal, waste oil, battery, tire, wood waste and general waste with perimeter fence.

Soil and spills storage:

No separate land farm facility for contaminated soil or spill materials remediation, but a lined cell for spills and Type B soil contaminated with hydrocarbons, petroleum product of fuel oil and/or diesel fuel or gasoline. The hamlet uses a metal container inside the liner cell to store contaminated soil or spills petroleum products which prevent any leaching out of contaminated materials.

18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS

Are the effects of the undertaking on any known persons or property including those that hold licences for water

use in precedence 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, the same as those considered in the existing water licence?

☐ Yes ☒ No

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.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

19. INUIT WATER RIGHTS

Are the effects of the undertaking on the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL) the same as those considered in the existing water licence?

☒ Yes ☐ No

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

20. CONSULTATION - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

Treatment Plant:

The new treatment plant installation completed Dec 2016. The old Treatment Plant used only Cartridge filters and chlorination before truck-fill which was very costly in changing cartridges more frequently to respond more turbidity in water and not completing requirements of salt intrusion when it appears in summer and fall.

With the help of the new Treatment Plant, more effective measures are taken to solve issues of high turbidity and minimizes salt wedge in water by passing water over roughen sand or slow sand bedding.

21. SECURITY INFORMATION

Is the financial security assessment the same as that considered in the existing water licence? **Not applicable**

☐ Yes ☐ No

Is the estimate of the total financial security for final reclamation the same as that considered in the existing water licence?

☐ Yes ☐ No

Provide 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. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

22. FINANCIAL INFORMATION

Is the statement of financial security the same as that considered in the existing water licence? [Not required](#)

☐ Yes ☐ No

Provide an updated statement of financial security.

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence?

☐ Yes ☐ No

Provide a list of the officers of the company.

Is the Certificate of Incorporation or evidence of registration of the company name the same?

☐ Yes ☐ No

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

Please see the attached letter of addendum submission to NWB as requested in previous licence letter:

- (i) *Addendum to Sewage Treatment O&M manual*
- (ii) *Addendum to Spill Contingency plan*
- (iii) *Addendum to Water intake and treatment plant O&M manual*

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

24. PROPOSED TIME SCHEDULE

Is the time schedule for all phases of development (construction, operations, closure and post closure) the same as that considered in the existing licence?

☒ Yes ☐ No

Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction : [missing intake screen at new IPH](#)

Proposed Start Date: April, 2021 (month/year) Proposed Completion Date: August, 2021 (month/year)

Operation

Proposed Start Date: August 2021 (month/year) Proposed Completion Date: Aug 2021 (month/year)

Closure

Proposed Start Date: (month/year) Proposed Completion Date: (month/year)

Post - Closure

Proposed Start Date: Proposed Completion Date:

Updated plans, including designs and reports (see Block 23).

☒ Yes

☐ No

If no, date expected _____

Updated security assessment (see Block 21).

☐ Yes

☒ No

If no, date expected Not applicable

Updated financial statement (see Block 22).

☐ Yes

☒ No

If no, date expected not applicable

Compliance Assessment / Status Report (see Block 23).

☐ Yes

☒ No

If no, date expected Not applicable

English Summary of Renewal Application.

☒ Yes

☐ No

If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Renewal Application.

☐ Yes

☒ No

If no, date expected Oct 05, 2020

Application fee of \$30.00 CDN (Payee Receiver General for Canada).

☒ Yes

☐ No

If no, date expected _____

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes

☒ No

If no, date expected Not applicable

28. SIGNATURE

I, Kimberley Young (print name)

certify that the application requires no changes to water use or waste disposal as previously authorized and that the information given on this form is, to the best of my knowledge, correct and complete.

Signature

Date

Sept, 25, 2020



addendum

September 18, 2020

Nunavut Water Board

P.O. Box 119

Gjoa Haven, NU X0B 1L0

Attention: Richard Dwer, Manager of Licensing

RE: **Spill Contingency Plan (SCP), November 2014 - addendum**
Sewage Treatment O&M manual, May 2014 - addendum

Reference: NWB Letter December 08, 2015 - Amendment Licence 3BM-KUG 1520

Dear Richard,

The Hamlet of Kugluktuk is pleased to submit to Nunavut Water Board the attached files of Spill Contingency Plan and Sewage Treatment O&M manual-addendums to the Water Licence 3BM-KUG 1520 as requested. The enclosed updated documents are:

- Spill Contingency Plan with addendum
- Sewage Treatment O&M manual addendum

We hope that Nunavut Water Board will find the Spill Contingency Plan-addendum and O&M manual-addendum effective to process the renewal Water Licence for Kugluktuk municipality.

GN-CGS is submitting this plan on behalf of the Hamlet of Kugluktuk.

Best Regards,

*Shah Alam, P. Eng. E.P, CAMP
Municipal Planning Engineer,
Government of Nunavut
Community and Government Services
Kitikmeot Region, Cambridge Bay, Nu
Phone: 867-983-4156, fax: 867-983-4123, salam@gov.nu.ca*

Sewage Treatment Facility O&M manual, May 2014

Prepared by: Nuna Burnside Engineering and Environmental Ltd.

Item 1.2 Nunavut Water Board License

Current contents: License NWB3KUG0308

Replace with: License 3BM KUG 1520

Item 1.4 Sewage volumes

Item 3.1 Overview

Current contents: The lagoon will be fenced

Replace with: The lagoon berm is fully fenced with walkway inside the fence on the berm

Item 3.3.1 Existing lagoon

current: The old lagoon has yet to be commissioned

Replace: The old lagoon has been decommissioned

current: the former lagoon will be desludged with the sludge transferred

Replace: the former lagoon was desludged and level gradients towards the wetland

Current: A decommissioning plan has developed.... the topography of the area

Replace: the old sewage facility has been decommissioned. Metal spillway has been removed and berm materials were pushed to infill lagoon area and levelled.

Item 3.3.4 Gas under Synthetic Liner (1st paragraph)

Current: the remaining bubbles will not be removed.....Operation of the lagoon

Replace with: remaining bubbles hopefully be removed through a maintenance work later

Item 3.7.2 Monitoring stations

Current: KUG-1 KUG-4A WS-4

Replace with:

Station	Description	Comments
KUG-1	Raw Water intake location at Coppermine River	Volume of water intake annually
KUG-2	Solid waste run-off effluent sampling location	sampling June-Sep and as available
KUG-3	Raw sewage deposition from truck off-load	Volume of sewage deposition
KUG-3A	Decanting location from sewage lagoon inside	Sampling when decanting in plan
KUG-4	Effluent outfall from wetland to Coronation Gulf	sampling Jun-Sep as available
KUG-5	Landfill and soil storage run-off towards wetland	Sampling Jun-Sep and as available

Note: surface monitoring stations WS 1 – WS 4 were part of old sewage lagoon effluent quality control, which are no more active since the old sewage lagoon facility was decommissioned.

Item 3.7.3 (list# 4) Monitoring procedures

Current sentence starts:raw sewage samples will be collected.....several loads

Replace with: raw sewage sample collects from location at KUG-3A decanting inlet point



Department of Community and Government Services
Nunalingni Kavamatkunnilu Pivikhaqautikkut
Ministère des Services Communautaires et gouvernementaux

WTP O&M manual

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