



## ᓄᓇᓂᓪ ᐃᓴᓂᓕᓂᓴᐃᓄᓪ ᐅᓂᓴᓴᓂᓪ ᐃᓴᓂᓕᓂᓴᐃᓄᓪ ᐃᓴᓂᓕᓂᓴᐃᓄᓪ #125632 3BM-COR1521 Municipal Water Licence Renewal

ᐃᓴᓂᓕᓂᓴᐃᓄᓪ  
ᐃᓴᓂᓕᓂᓴᐃᓄᓪ:

New

ᐃᓴᓂᓕᓂᓴᐃᓄᓪ  
ᐃᓴᓂᓕᓂᓴᐃᓄᓪ:

Municipal and Industrial Development

ᐃᓴᓂᓕᓂᓴᐃᓄᓪ  
ᐃᓴᓂᓕᓂᓴᐃᓄᓪ:

8/12/2021 3:01:35 PM

Period of operation: from 0001-01-01 to 0001-01-01

ᐃᓴᓂᓕᓂᓴᐃᓄᓪ ᐃᓴᓂᓕᓂᓴᐃᓄᓪ: from 0001-01-01 to 0001-01-01

ᐃᓴᓂᓕᓂᓴᐃᓄᓪ:

Elan Chalmers

Government of Nunavut

PO Box 1000, stn 700

Iqaluit NU X0A0H0

Canada

ᐃᓴᓂᓕᓂᓴᐃᓄᓪ: 8679755461, ᐃᓴᓂᓕᓂᓴᐃᓄᓪ:

כ ל ד ל ב ל ג

$${}^{\epsilon}\mathfrak{b}_{\Delta}{}^{\zeta}\mathfrak{N}_{\sigma}{}^{\flat} \quad \wedge \text{c} \text{ n} \mathfrak{d}{}^{\epsilon}\mathfrak{b}{}^{\epsilon}\sigma \mathfrak{d} \text{ n} \mathfrak{d}{}^{\flat}\mathfrak{L}{}^{\flat}\sigma{}^{\flat}$$

36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

This application is being submitted for the renewal and amendment of water licence 3BM-COR1521. All licence requirements will remain the same, except for the change to a Type A water licence to reflect that Coral Harbour relies on a raw water reservoir that must be resupplied annually at a water pumping rate that exceeds the Type B licence limit of 300. Resupply of up to 45,000 m3 from Post River must take place during open water season, in approximately 25 days to ensure there is sufficient water in the reservoir for the year. The maximum daily volume could be up to approximately 2,000 cubic meters/day. There are no changes in operations for the Coral Harbour water resupply and treatment plant, but the withdrawal rate from Post River will be considered for the licence rather than the water consumption rate from the reservoir. The municipal water supply is drawn from Post River and consists of a movable water intake, overland pipeline, and storage reservoir. Resupply occurs over a period of approximately 25 days during the period of open water. There are no changes to the other licenced facilities, Sewage is deposited in a permeable lagoon from which effluent passively flows into a wetland treatment area. The solid waste site is a fenced and bermed area that accepts municipal, bulky metal, and hazardous waste.

▷ΔΛΝΔ: La présente demande est soumise pour le renouvellement et la modification du permis d'utilisation des eaux 3BM-COR1521. Toutes les exigences du permis resteront les mêmes, à l'exception du changement au permis d'eau de type A, changement visant à tenir compte du fait que Coral Harbour dépend d'un réservoir d'eau brute qui doit être réapprovisionné annuellement à un taux de pompage excédant la limite de 300 du permis de type B. Le réapprovisionnement d'au plus 45 000 m<sup>3</sup> à même la Post River doit se dérouler durant la saison des eaux libres, en 25 jours environ afin qu'il y ait suffisamment d'eau dans le réservoir pour l'année. Le volume quotidien maximal pourrait être d'environ 2 000 m<sup>3</sup> par jour. Il n'y a aucun changement quant à l'exploitation de l'usine de réapprovisionnement et de traitement de l'eau de Coral Harbour, mais c'est le taux de prélèvement d'eau dans la Post River qui sera évalué pour le permis plutôt que le taux de consommation d'eau dans le réservoir. L'approvisionnement en eau de la localité se fait à même la Post River, au moyen d'une prise d'eau mobile, d'un pipeline de surface et d'un réservoir d'accumulation. Le réapprovisionnement se fait sur une période d'environ 25 jours durant la saison des eaux libres. Il n'y a aucun changement aux autres installations détentrices de permis. Les eaux usées sont déversées dans un étang perméable, traversé de façon passive par les effluents jusqu'à une zone de traitement des eaux usées par milieux humides. Le site des déchets solides est une zone entourée d'une clôture et d'une berme, où l'on accepte les déchets municipaux, les métaux encombrants et les déchets dangereux.

[illegible]

Inuinnaqtun: Taanna tutsirauti tunijaujuq nutaanngutitsinirmut aqqigiarinirmullu imarmut ajungijjutimu 3BM-COR1521. Iluunnatik ajungijjutinut aturialit asijijjaangittut, piqataunngittut asijirniujumut qanuittuuninga A imarmut ajungijjuti attuanigaqtuq Salliqmi tunngaviqaqtut imirtaqvimmi imiqtaukanniqattarialik arraagulimaat imarmi miluaqsiqattaqtut qatsiuninga ungataanut qanuittuuninga B ajungijjuti killiaqtuq 300-mi. Imiqtaukanninirmut 45,000 kuunganit imauninganit, immaqa 25 ulluit nalunaiqsinirmut amiganngittumi imaqarnirmut imirtaqvinga arraagumut. Angilaa qautamaat unurniit immaqa 2,000 kippariksiliqsimajunut miitanut/qautamaat. Asijirniqtaqangittuq aulaniujunit Salliqmi imiqarnirmut imarmillu kamagijaqarnirmut, kisiani atuqtaajunnaqtut qatsiuninga kuunganit isumagijauniaqpuq ajungijjutimu qanutigiungittuq imaqturunga imirtaqvimmi. Haammalakkut imiqtaukannirniq kuungani nuutaujunaqtumu imarmik immiqpalliavattuq, nunakkut sullulikkut, sunakkutaakkuvillu imirtaqvimmi. Imiqtaukannirniq immaqa ullunut 25-nu imauninganit. Asijirniqtaqangittuq asinginnut ajungijjutinut inigijaujunut, kinaaluk kuvijauqattaqtuq kinaaluqarvimmut kuuqattaqsunilu nunami imaqarnirmik piliriaguviujumut. Tangilinnut aturunniiqtunut attivik avalusimajuq killialu pijunnaqtut haammalakkut, savirajaalunnit, ulurianaqtunillu sanirnit.

#### **Personnel**

Personnel on site: 2

Days on site: 365

Total Person days: 730

Operations Phase: from 2021-09-30 to 2031-09-29

## ለሮሲባሊክድሮባክ

ደረጃ	የግልጽጽጽ ለሮሲባሊክድሮባክ	የግልጽጽ ለሮሲባሊክድሮባክ	ግልጽጽ ለሮሲባሊክድሮባክ	ግልጽጽ ለሮሲባሊክድሮባክ	ግልጽጽ ለሮሲባሊክድሮባክ
Coral Harbour	Municipal and Industrial Development	Municipal	Municipality of Coral Harbour	Only the areas currently licensed under 3BM-COR1521 will continue to be used, no areas of archeological value will be impacted.	The activities under this licence are for Coral Harbour municipal water use and waste disposal.

## የግልጽጽ ለሮሲባሊክድሮባክ ለሮሲባሊክድሮባክ ለሮሲባሊክድሮባክ

የግልጽጽ ለሮሲባሊክድሮባክ	የግልጽጽ ለሮሲባሊክድሮባክ	የግልጽጽ ለሮሲባሊክድሮባክ	የግልጽጽ ለሮሲባሊክድሮባክ
ሮሲባሊክድሮባክ	Leonie Pameolik	Municipality of Coral Harbour	2021-05-10

$\epsilon \Delta^{\alpha} j^{\beta} \wedge J^{\alpha} e^{\beta} \dot{N} \quad d^{\alpha} r^{\beta} C D P L \dot{L}^{\beta}$

[illegible]

Kivalliq

$\Delta^{\alpha} \Gamma^{\beta} \Lambda^{\gamma} \Sigma^{\delta}$

[illegible]

## Project transportation types

Transportation Type	Transportation Method	Length of Use
Land	Wastewater and solid waste is transported by truck from municipal buildings to disposal areas.	

## Project accomodation types

[illegible]

## ᐃᐱᐱᐅᓂᐱᖃᐱᖅ

ᐱᖃᐱᖅ ᐱᖃᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ, ᐱᐱᖃᐱᐅᓂᐱᖅ, ᐱᐱᖃᐱᐅᓂᐱᖅ, ᐱᐱᖃᐱᐅᓂᐱᖅ

ᐱᖃᐱᖅ ᐱᖃᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ - ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ
Pump	N/A	N/A	Pumps used to draw raw water from source into water reservoir for storage until moving to the treatment plant for chlorination/disinfection, then moved into discharge arm for filling of the water trucks.

ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ

ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ
Diesel	fuel	1	0	0	Liters	Fuel used to heat the water treatment plant. *Container capacity unknown *
Chlorine	hazardous	1	0	0	Liters	Chlorine used for disinfection of RAW water at the water treatment plant. *Container capacity unknown

ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ

ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ	ᐱᐱᖃᐱᐅᓂᐱᖅ ᐱᐱᖃᐱᐅᓂᐱᖅ
2000	Pump for approx. 25 days to resupply the raw water reservoir to sustain the municipality each year.	Post River. This location is already the licensed resupply location and water source. This application is with regards to the quantity.

## ᐱᑦᐸᐅᑦ

### ᐱᑦᐸᐅᑦ ᑕᑦᑕᑦᑕᑦ

ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	ᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	ᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	ᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ
Waste disposal	ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	6 cubic meters/capita/yr	Landfill	Burning combustible waste
Waste disposal	ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	0.6 cubic meters/capita/yr	Segregated and contained at landfill	Backhaul
Waste disposal	ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ	45,000 cubic meters	Trucked disposal into a sewage lagoon	Wetland treatment area

### ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ ᐱᑦᐸᐅᑦ

The activities under the existing Coral Harbour water licence are essential municipal activities. The lagoon wetland system provides treatment for wastewater prior to effluent entering the final receiving environment. The solid waste site provides containment for waste generated by the municipality. The water use is not expected to increase beyond the volume previously licensed, in the next 10 years. This application is for the licence to reflect that up to 45,000 m<sup>3</sup> is pumped annually in approximately 25 days from Post River to the water treatment plant reservoir for the municipal water supply for the year.

# **Additional Information**

**SECTION A1: Project Info**

**SECTION A2: Allweather Road**

**SECTION A3: Winter Road**

**SECTION B1: Project Info**

**SECTION B2: Exploration Activity**

**SECTION B3: Geosciences**

**SECTION B4: Drilling**

**SECTION B5: Stripping**

**SECTION B6: Underground Activity**

**SECTION B7: Waste Rock**

**SECTION B8: Stockpiles**

**SECTION B9: Mine Development**

**SECTION B10: Geology**

**SECTION B11: Mine**

**SECTION B12: Mill**

**SECTION C1: Pits**

**SECTION D1: Facility**

**SECTION D2: Facility Construction**

**SECTION D3: Facility Operation**

**SECTION D4: Vessel Use**

**SECTION E1: Offshore Survey**

**SECTION E2: Nearshore Survey**



### SECTION E3: Vessel Use

## SECTION F1: Site Cleanup

## SECTION G1: Well Authorization

## SECTION G2: Onland Exploration

## SECTION G3: Offshore Exploration

## SECTION G4: Rig

## SECTION H1: Vessel Use

## SECTION H2: Disposal At Sea

## SECTION 11: Municipal Development

**ᐱᓪᑲ ᐃᑦᐅᐸ ᖃᓄᐃᑦᑐᑦ ᑕᓚᐅᓂᖅ:** ᓄᓇᐅᑦ ᖃᓄᐃᑦᑐᓂᖅ

ᐱᓪᓇ ᐱᑦᐅᐅᑦ ᑭᓪᓂᐱᑦᐅᑦ ᑕᓪᓂᐅᓂᓪᓴᑦ: ᐅᐱᑦᑭᑦᑭᑦᓂᓪᓴᑦ

**ᐱᓪᑲ ᐃᑦᑎᐅᑦ ᖃᑳᐃᑦ)ᑦᑕᑎᐅᑭᑦ: ᐃᑭᑦᑎᑭᑦᑐᑦᐱᑦᑕᐃᑦᑕᑎᑭᑦᑐᑦᐱᑦᑕ**

### Miscellaneous Project Information

Water is pumped annually from Post River to fill the water reservoirs to provide municipal water service for the year. This annual resupply has taken place since at least 1980 when the first reservoir was constructed. This water licence amendment and renewal to a Type-A water licence is to reflect this resupply method.

[illegible]

While this licence is proposed to change from a type-B water licence , which only allowed up to 300 cubic meters per day, to a type-A water licence with 2,000 cubic meters per day, there is actually no change in practice occurring. This has been how this system has operated since 1980, and is required to function in this fashion to provide the essential service of a potable water supply to the Community of Coral Harbour for the year.

## Cumulative Effects

## Impacts

$\mathbf{e} \rightarrow \mathbf{e} \Delta^{\mathbf{q}_b} \mathbf{C} \triangleright \sigma^{\mathbf{q}_b} \mathbf{r}^{\mathbf{c}} \quad \mathbf{d} \in \mathbf{N} \Gamma \triangleright \mathbf{C} \dot{\sigma}^{\mathbf{c}} \mathbf{D}^{\mathbf{c}} \quad \mathbf{d}^b \mathbf{D}^{\mathbf{q}_b} \mathbf{C} \triangleright \mathbf{r}^{\mathbf{L}} \mathbf{L}^{\mathbf{c}}$

[illegible]
$$(P = \langle b \rangle \dot{\cup} P \cap \langle a \rangle^c, N = \langle b \rangle \cap P \cup \langle a \rangle^c, M = \langle b \rangle \cap P \cup \langle a \rangle^c, U = \langle b \rangle \cap P \cup \langle a \rangle^c)$$

1	point	Coral Harbour
---	-------	---------------