

## Amendment

 $\Delta L^{96}$ 

10/19/2018 7:31:00 PM

**ᐱᓕ ᐱᑦᐅᑭᑯᑦ:** Shah Alam  
Community and Government Services (CGS)  
Helen Maksagak Centre  
Cambridge Bay NU X0B 0C0  
Canada  
ᑲᑦᐅᑭᑯᑦ: 8679834156, ᑯᑦᐅᑭᑯᑦ: 8679834123

$\gamma_b \Delta^c \dot{\bar{O}} \Pi \sigma^b \quad \Lambda c_n \nabla^{\gamma_b} \sigma \nabla n \nabla^{\alpha} L^a \sigma^b$

16-2018: The Hamlet of Gjoa Haven is responsible for the supply of potable water and disposal of sewage waste and solid waste generated from the community. These facilities are currently operating under the current Licence 3BM-GJO 1318 which remains active until Nov 12, 2018. The buried water line sometime faces frozen issues due to crack in insulation or insufficient coverage which required replacing some of the sections of the pipe line. Water line improvement works also included replacement of two heat exchanger pumps, increase sizes of intake pumps, and SCADA monitoring system- all completed during the year 2015-2017. Raw water drawn from Swan lake by two intake pumps, transport to 3.2 km away treatment plant through buried line where water is treated by gravity pressure filtration and chlorination before truckfill for delivery. Water flow meters are included in the treatment system to address the volume of water drawn and delivery to residents using Hamlet operated water trucks. Current engineered lagoon constructed in 2014 and in operation for raw sewage deposition and primary treatment. Decanting of effluent carried during July-August by using pump and hose to a designated point on wetland from where the effluent travels 1275 m towards Ocean through the Final Discharge point GJO-4. The old sewage lagoon was decommissioned and the A&R plan was received to the Board on July 25, 2014. Solid waste site facility had some issues over the years in terms of mixing runoff contamination within the solid waste management (SWMA) area and hazardous materials leachate mixing onto water through wetland, poor segregation in waste dumps, illegal dumping outside the facility, broken spots of fence and poor performance of facility operations. The community has fixed majority of those issues over the years with own resources and some assistance through Government initiatives including the reduction in vehicles parts, reinstalling the fallen fences, filling the broken gaps of berms and stopping the leachate runoff from free flow outside. A sampling monitoring point GJO-5 and signage established for leachate sampling. Other monitoring stations GJO-2, GJO-3, GJO-4 are remains active with GPS locations and identity signage. Monitoring of solid waste and sewage facilities continued during May-August and operators training of Environmental Awareness. Annual Reports are upto date to the Board to 2017.

ᐅᐃᐱᓂᑦ: Le hameau de Gjoa Haven est responsable de l'approvisionnement en eau potable et de l'élimination des eaux usées et des déchets solides générés par la communauté. Ces installations sont actuellement exploitées sous la licence actuelle 3BM-GJO 1318, qui reste active jusqu'au 12 novembre 2018.Lagune aménagée actuellement construite en 2014 et en exploitation pour le dépôt d'eaux d'égout brutes et le traitement primaire. Décantation des effluents transportés entre juillet et août à l'aide d'une pompe et d'un tuyau jusqu'à un point désigné sur une zone humide à partir de laquelle l'effluent se déplace sur 1275 m vers l'océan.L'ancienne lagune d'égout a été mise hors service, point de contrôle GJO-5 et affichage mis en place pour l'échantillonnage du lixiviat. Les autres stations de surveillance GJO-2, GJO-3, GJO-4 restent actives.La surveillance des installations de traitement des déchets solides et des eaux usées s'est poursuivie de mai à août. Les rapports annuels sont jusqu'à 2017 pour le Conseil.La Commission d'évaluation des incidences du Nunavut a déjà approuvé la licence actuelle, mais elle doit être renouvelée car elle expire le 11 novembre 2018.

Δ<sup>ω</sup>Π<sup>c</sup>: wu3b3Fs2 wmlz xN3b3F[l n7M4f5 s6h6+g6u vmQCq. Mwnzb~Nns+b 3BM-GJO 1318 +b7N MwnECsD6 xg3ix6 kF2WE 12, 2018a3y3IA.kNs2 x+b~i5g6 h9lw5 w~M8i4f5 eec5b3g5 sdDtcq9Mq8k5. nNCsymo3gFisZlw5 2015-2017l xf8zi +sNdy3bs9lt4 VVVV (Pump) cspnstzi9l woy9lt4. s6h6+gt4+vu wm6 h9l4+f3Li3.2km u szyio1j5 wu3b3F1jzc5b3g6 bwvil nlmw~E4ft4+fc5b3g6 gdNo3bs9lil bwm wu3bstjzc5b3g6 wm6. ck6 x4t4hu wm3u wu3bsts2 wlxkziz cspnstc3g6 wu3b3F1u x7ml x4n~lts2 wlxi cspnstc3uD6 ck6 xqtQDu w7u3bsc5b3m+zb w[lc3g9l n8NFsD9l.xN3b3F4 2014u nNCsD6. JMwa+Cz5 x[Zyul u4OQx3bsc5b3g6 xN3b3F4 S2M4nst4f5 wm3jz3bs9lil 1275 mu szyio1j5 wm3j5 bw+fN

GJO-4. xN3b3FFi6 xgDw3bsD6 JMw 14, 2014u xyD3t3ym1mb x?9lw, moZ3ul xyDw9lt4  
wQbsiq xN3b3Fs2 wlx~i5gi.nN+p5 wMq8i nN+DZlw5 Z?m4f8i wvJ3bs9lt4. cspnsti GJO-5,  
GJO-2, GJO-3 GJO-4ul woCsD5 cspnc5b3ix7mb ckE5+b4+n5 wQbsD5.vmpsD5 kNi  
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wm3u x7ml xN3b3F1u+zgi. bwml nNCs2c3X9o3ix3bz xN3b3Fsc5b3g6. csEn3ix5 2018-  
2019ul ck6 xrc3ixEx4+n5 nNCsQxc3iz s=?~l8~i5 k+bu WQxc3iz.xrc3ixEx4+n5 nNCsQxc3iz  
s=?~l8~i5 k+bu WQxc3iz.

Inuinnaqtun: not required.

#### **Personnel**

Personnel on site: 3

Days on site: 32

Total Person days: 96

Operations Phase: from 2018-10-29 to 2033-10-29

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Latitude: 68o 30' N, Longitude:95o 53' W	Other	Municipal	Active water License ued to draw water and delivery to hosehold tanks for domestic uses, municipal waste and sewage disposal to waste facility and engineered Lagoon.	Fine -grained marine deposits, numerous lakes & ponds, covered with thin layer of tundra & grasses, poor soil quality, various types of lichen, moss, continuous permafrost, annual precipitation 5 cm of rain fall and 25 cm of snowfall. January -39°C to -23°C and July high & low 13.9°C and 7.2°C.	South-East coast of King William Island, in the Kitikmeot Region of Nunavut, approximately 142 air km SW of Kugaaruk, and 1,056 air km NE of Yellowknife.

$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

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ᑯᑦᕈᑦᕐᔪᑦ	SAO and Director of Works	Hamlet of Gjoa Haven	2018-06-11

[illegible]

$a^b r^c \wedge c d e f g h i j k l m n o p q r s t u v w x y z$

## Kitikmeot

[illegible][illegible]

## Project transportation types

Transportation Type	Transportation Method	Length of Use
Air	Charter flight and commercial airlines (First Air and Canadian North)	
Water	using burried lines of 150 mm diameter HDPE pipes with 100 mm thick insulation all around.	
Land	Hauling water using water truck, sewage and solid waste using waste truck to the lagoon and solid waste site.	

## Project accomodation types

[illegible]

△ ۲۰۰۶،



$\triangleleft^b C d^c$ 
$$\Delta^b C d_c n \sigma \Delta^a \sigma^a$$
[illegible]

4907DC<sup>5</sup>DC 4<sup>b</sup>D<sup>6b</sup>CD<sup>7</sup>PL<sup>8</sup>LC

No environmental impacts since the infrastructures are outside of town and no impact to tourism, wildlife or water course.

# **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

[illegible]

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**ᐱᓪᑲ ᐃᑦᑎᐅᑦ ᖃᓄᐃᑦ)ᑦᑕᑎᐅᓂᖃᑦ: ᐃᓄᑕᑎᓂᖃᑦᐱᑦᑕᐃᑦᑕᑎᓂᖃᑦᐱᑦᑕ**

### Miscellaneous Project Information

[illegible]

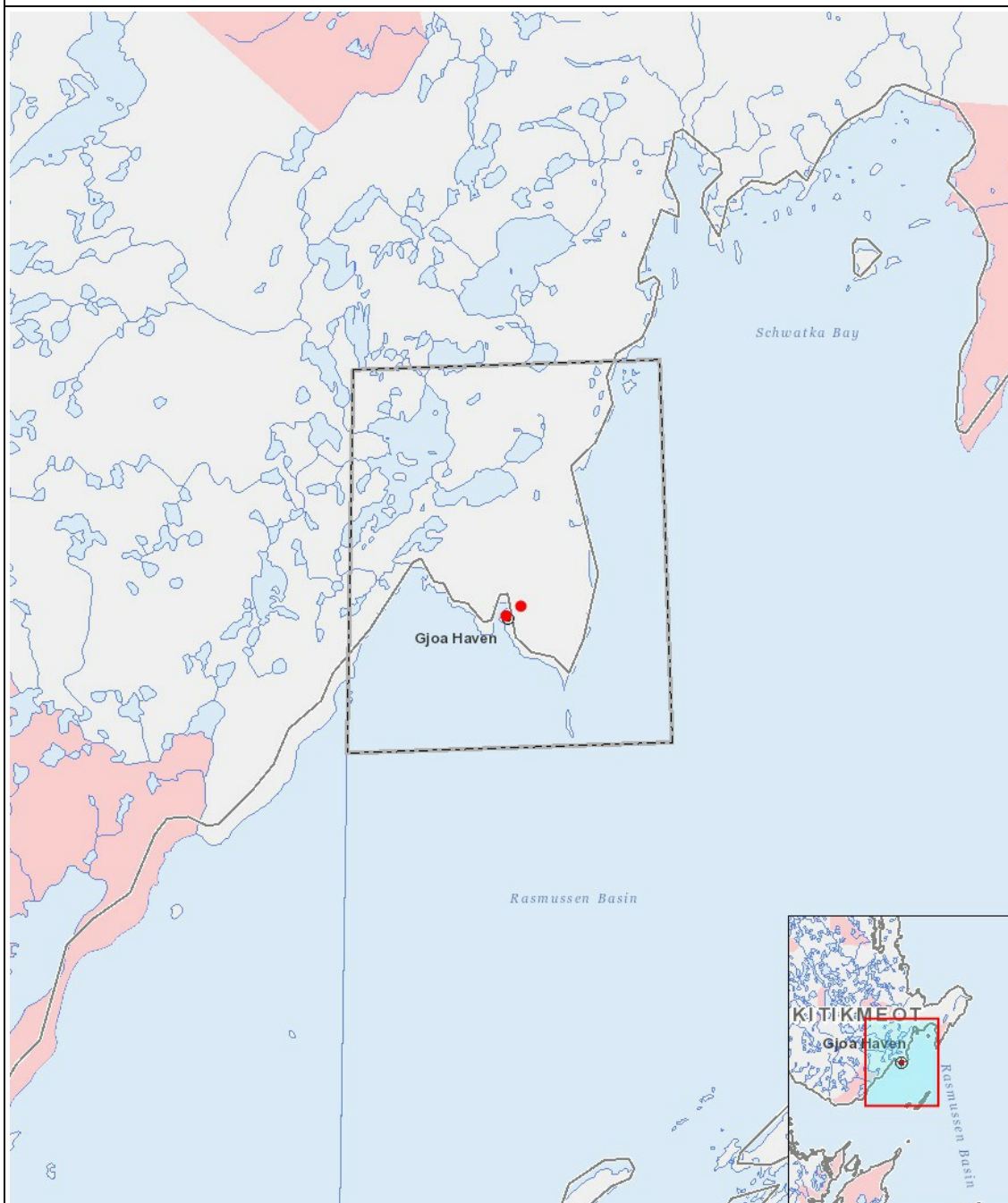
## Cumulative Effects

## Impacts

$\mathbb{A}^1_{\mathbb{C}} \times \mathbb{A}^1_{\mathbb{C}} \rightarrow \mathbb{A}^1_{\mathbb{C}}$

[illegible][illegible]

## PROJECT MAP



### LIST OF PROJECT GEOMETRIES:

1	point	Latitude: 68o 30' N, Longitude:95o 53' W
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