ᓄᓇᕗᒻᒥ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᖏᑦ

NUNAVUT IMPACT REVIEW BOARD
NUNAVUMI AVATILIKIYIN KATIMAYIN

Demande de la CNER faisant l'objet d'un examen préalable #124677

3AM-GRA1624 GN-CGS Rankin Inlet Water Licence Amendment - Lower Landing Lake

Type de demande :	New
Type de projet:	Eau
Date de la demande :	6/14/2016 9:45:21 AM
Period of operation:	from 2017-06-09 to 2024-05-01
Autorisations proposées:	from 2024-05-01 to 2024-05-01
Promoteur du projet:	Megan Lusty GN-CGS P.O. Box 490 Rankin Inlet Nunavut X0C0G0 Canada Téléphone :: 867-645-8176, Télécopieur :: 867-645-8141

DÉTAILS

Description non technique de la proposition de projet

Anglais: The Government of Nunavut, Department of Community and Government Services (GN-CGS) is seeking an amendment to Water Licence 3AM-GRA1624 issued on May 2, 2016 to allow for water to be transferred directly from Lower Landing Lake to Nipissar Lake, instead of from the currently authorized location at Char River. Lower Landing Lake feeds Char River which then flows into the Hudson Bay. The authorized Char River pumping location is at the beginning of Char River near Lower Landing Lake. The new intake location in Lower Landing Lake will be approximately 200m to the north-west of the current intake location in Char River. Both locations are within the Hamlet of Rankin Inlet municipal boundaries. The Licensee is not requesting an amendment to the volume of water authorized for the transfer of water to Nipissar Lake of 3,485m3/day. The same equipment currently used for the seasonal transfer of water from Char River to Nipissar Lake will be used at the proposed Lower Landing Lake intake location. The temporary floating intake, with fish screen, will be used with the same pump and generator within the relocated seacan. An extension of approximately 200m to the 4.05km overland pipeline will be installed to bring the pipeline from Char River to Lower Landing Lake. The existing intake location at Char River is located on a previously disturbed area that was the location of the former bridge over the Char River (the bridge was removed well before the Nipissar Lake resupply project began). As such there is an existing road to the north of Char River that will be used to access the new intake location on Lower Landing Lake. Golder Associates prepared the "Nipissar Lake and Lower Landing Lake Water Balance Assessment" with "Char River Theoretical Rating Curve Based on Field Data" (February 2016) for GN-CGS. A translation of the report Executive Summary is also submitted. This report was done to address concerns that Char River was not a sustainable secondary water source for the Hamlet of Rankin Inlet. The water balance assessment of Lower Landing Lake outlines that this water source would be able to provide sufficient supplementary water to Nipissar Lake, while still maintaining the in-stream flow objectives outlined in the Licence for Char River. Lower Landing Lake and Char River are part of the same watershed. Water quality has been annually monitored in both water bodies (GRA-6, GRA-7), along with Nipissar Lake (GRA-1), since 2014. The water chemistry for Nipissar Lake, Char River and Lower Landing Lake is very similar. No impacts on the water quality of Nipissar Lake have been apparent or are anticipated.

Français: N/A

Inuktitut: 3AM-GRA1624 ᓄᓇᕗᑦ ᒐᕙᒪᖓᓄᓇᓕᓐᓂ ᒐᕙᒪᒃᑯᓐᓂᓪᓗ ᐱᔨᑦᑎᖅᑎᒃᑯᑦ ᑲᖏᖅᖠᓂᖅ ᐃᒪᓕᕆᓂᕐᒧᑦ ᓚᐅᓯᖓ ᐋᖅᑭᒋᐊᖅᑕᐅᓂᖓ ᓄᓇᕗᒻᒥ ᐊᕙᑎᓕᕆᔨᑦ ᑲᑎᒪᔨᖏᑦ ᐃᓗᓕᖅᑲᐅᓗᐊᙱᑦᑐᖅ ᓇᓗᓇᐃᔭᐃᕐᓂᕐᒥᒃ ᑐᒃᓯᕋᕈᑎᓕᐅᕐᓂᕐᒧᑦ ᒪᓕᒐᑦᓴᐃᑦ ᓄᓇᕗᑦ ᒐᕙᒪᖓ, ᐱᓕᕆᕝᕙᖓᑕ ᓄᓇᓕᓐᓂ ᒐᕙᒪᒃᑯᓂᓪᓗ ᐱᔨᑦᑎᖅᑎᒃᑯᑦ (GN-

CGS) ᐱᔪᒪᕗᑦ ᐋᖅᑭᒋᐊᖅᑕᐅᖁᓪᓗᒍ ᐃᒥᓕᕆᓂᕐᒧᑦ ᓚᐃᓴᖓ 3AM-GRA1624 ᑐᓂᔭᐅᓚᐅᖅᑐᖅ ᒪᐃ 2, 2016 ᐱᔪᓐᓇᑎᑦᑎᓪᓗᓂ ᑖᓐᓇ ᐃᒪᖓ ᓅᑎᑕᐅᓗᓂ ᑕᐃᑲᙵᓪᓚᕆᒃ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓᓂᑦ ᑕᐃᑯᖓ ᓂᐱᓴ ᑕᓯᖓᓄᑦ, ᐊᑐᖅᑕᐅᙱᖕᒫᕐᓗᓂ ᒫᓐᓇᐅᔪᖅ ᐱᔪᓐᓇᐅᑎᒋᔭᐅᔪᖅ ᐃᓂᖃᖅᑐᒥᒃ ᐊᖅᑯᒫᕐᔫᑉ ᑰᖓᓂ. ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓ ᐃᒻᒪᐃᕙᓪᓕᐊᓲᖑᕗᖅ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓂ ᑕᐅᓄᖓᓗ ᑰᓕᖅᑐᓂ ᑲᖏᖅᓯᐊᓘᑉ ᐃᓗᐊ. ᑖᓐᓇ ᐱᔪᓐᓇᐅᑎᔪᖅ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓂ ᒥᓪᓗᐊᖅᑎᑦᑎᓂᕐᒧᑦ ᐃᓂᒋᔭᖓ ᑕᐃᑲᓃᑉᐳᖅ ᓯᕗᓂᐊᓂ ᐊᖅᑯᒫᕐᔫᑉ ᑕᓯᖓᓂ. ᑖᓐᓇ ᓄᑖᖅ ᐃᓂᖃᕐᕕᐅᔪᖅ ᑕᐃᑲᓂ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓᓂ ᐃᒪᓐᓇᐸᓘᓂᐊᖅᑯᖅ 200m ᑕᐅᕗᖓ ᑲᓇᓐᓇᖅᐸᓯᐊᑕ ᐱᖓᓐᓇᖓᓄᑦ ᒫᓐᓇᐅᔪᒥ ᐱᔭᐅᕙᓪᓕᐊᔪᒥ ᐃᓂᖃᖅᑐᒥ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓂ. ᑕᒪᒃᑮᒃ ᐃᓂᖃᕐᕕᐅᔫᒃ ᐃᓗᐊᓃᑉᐴᒃ Hᐋᒻᒪᓚᖓᑕ ᑲᖏᖅᖠᓂᖅ ᓄᓇᓕᓐᓄᑦ ᑭᓪᓕᓕᐊᕆᓯᒪᔪᒥ. ᑖᓐᓇ ᓚᐃᓴᑖᖅᑎᑕᐅᔪᖅ ᑐᒃᓯᕋᖅᓯᒪᙱᓚᖅ ᐋᖅᑭᒋᐊᖅᓯᒪᔪᒥᒃ ᖃᓄᑎᒋ ᐃᒥᕐᒥᑦ ᐱᓂᐊᕐᓂᖓᓂᑦ ᐊᐅᓪᓛᖅᑎᑦᑎᓂᕐᒧᑦ ᑕᐃᑲᖓ ᓂᐱᓴ ᑕᓯᖓᓄᑦ ᐃᒪᓐᓇᒥᒃ 3,485m3/ ᐅᓪᓗ. ᑖᒃᑯᐊ ᓱᓇᒃᑯᑖᕆᔭᐅᔭᕆᐊᓃᑦ ᒫᓐᓇᐅᔪᖅ ᐊᑐᖅᑕᐅᕙᑦᑐᑦ ᐊᐅᓪᓛᖅᑎᑦᑎᓂᕐᒧᑦ ᐃᒥᕐᒥᒃ ᑕᐃᑲᙵᑦ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓄ ᑕᐃᑯᖓ ᓂᐱᓴ ᑕᓯᖓᓄᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑯᑦ ᑖᔅᓯᒧᖓ ᑐᒃᓯᕋᐅᑕᐅᔪᒧᑦ ᑕᐃᑲᓂ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓᓂ ᐃᒥᖅᑕᖅᑕᐅᕙᓪᓕᐊᔫᑉ ᐃᓂᖓᓂ. ᑖᒃᑯᐊ ᐳᑦᑕᖅᑯᑎᐅᑲᐃᓐᓇᖅᑐᑦ ᐃᒥᖅᑕᖅᑕᐅᕙᓪᓕᐊᔪᓂ, ᐊᔾᔨᙳᐊᖃᖅᑐᓂ ᐃᖃᓗᒻᒥ, ᐊᑐᖅᑕᐅᓂᐊᖅᑯᖅ ᑖᔅᓯᒧᖓᔅᓴᐃᓐᓇᖅ ᒥᓪᓗᐊᕈᑎᒧᑦ ᐊᒻᒪᓗ ᐊᐅᓚᐅᑎᓄᑦ ᑕᐃᑲᓂ ᐃᓂᖃᕐᕕᖓᓂᑦ ᐊᐅᓪᓛᖅᑕᐅᓯᒪᔪᒥᒃ ᐃᓂᖃᕐᕕᐅᔪᒥ. ᑕᒪᓐᓇ ᐃᓚᒋᐊᖅᑕᐅᓯᒪᓂᐊᕐᓗᓂ ᐃᒪᓐᓇᑎᒥᐸᓗᒃ 200m ᑎᑭᐅᒪᓗᒍ 4.05km ᓄᓇᒦᓪᓗᑎ ᓯᓪᓗᓕᖏ ᐋᖅᑭᒃᑕᐅᓂᐊᖅᑯᑦ ᑖᒃᑯᐊ ᐊᐅᓪᓛᖅᑕᐅᓕᖅᑲᑕ ᓯᓪᓗᓃᑦ ᑕᐃᑲᙵ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓂ ᑕᐃᑯᖓ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓᓄᑦ. ᒫᓐᓇᐅᔪᖅ ᐃᒥᖅᑕᖅᑕᐅᕙᓪᓕᐊᔪᖅ ᑕᐃᑲᙵᑦ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓂ ᑕᐃᑲᓃᑉᐳᖅ ᐃᒥᖅᑕᕐᕕᐅᕙᓚᐅᖅᑐᒥ ᐃᓂᖃᓚᐅᖅᑐᖅ ᐃᑳᕈᑎᒥᓚᐅᖅᑕᖓᓂᑦ ᑕᐃᑲᓂ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᑕ (ᑖᓐᓇ ᐃᑳᕈᑎ ᐲᖅᑕᐅᓚᐅᖅᑯᖅ ᑖᓐᓇ ᓂᐱᓴ ᑕᓯᖓᓂᑦ ᐃᒥᖅᑕᑲᓐᓂᕐᓂᖅ ᐱᓕᕆᐊᔅᓴᖅ ᐱᒋᐊᕐᒪᑦ). ᐱᑕᖃᖅᑎᓪᓗᒍ ᐊᖅᑯᑎᒥᒃ ᒫᓐᓇᐅᔪᖅ ᑕᐃᑲᓂ ᑲᓇᓐᓇᖓᓂ ᐊᖅᑯᒫᕐᔪᒃ ᑰᖓᓂ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᓂ ᐃᓯᕐᕕᐅᓗᓂ ᓄᑖᒧᑦ ᐃᒥᖅᑕᕐᕕᐅᓂᐊᓕᖅᑐᒧᑦ ᑕᐃᑲᓂ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓᓂ. ᑖᒃᑯᐊ Golder ᑲᑐᔾᔨᖃᑎᒌᑦ ᑲᒪᒋᔭᖃᓚᐅᖅᑯᑦ ᖃᐅᔨᓴᐃᓂᕐᒥᒃ ᑕᐃᑲᓂ "ᓂᐱᓴ ᑕᓯᖓᓂ ᐊᒻᒪᓗ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓᓂ ᐃᒥᖅ ᓇᓕᒧᒦᓐᓂᕐᒧᑦ ᖃᐅᔨᓴᕈᑎᐅᔪᒥ" ᐱᖃᓯᐅᑎᓪᓗᒍ "ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓ ᐱᔾᔪᑕᐅᔪᓄᑦ ᓇᓗᓇᐃᖅᑕᐅᒍᑎᖓᓂ ᑕᐃᑲᓂ ᑐᖅᑯᖅᑕᐅᕕᖓᓃᑦᑐᒥᒃ" (ᕖᕝᕗᐊᕆ 2016) ᑕᕝᕗᖓ ᓄᓇᕗᑦ ᒐᕙᒪᖓ–ᓄᓇᓕᓐᓂ ᒐᕙᒪᒃᑯᓂᓪᓗ ᐱᔨᑦᑎᖅᑎᒃᑯᓐᓄᑦ. ᐃᓄᒃᑎᑑᓕᖅᑎᑕᐅᓯᒪᔪᖅ ᐅᓂᒃᑳᖅ ᐊᐅᓚᑦᑎᔨᓂᑦ ᓇᐃᓈᖅᓯᔪᑦ ᐱᖃᓯᐅᔾᔭᐅᓯᒪᕗᖅ. ᐅᓇ ᐅᓂᒃᑳᖅ ᐱᐊᓂᒃᑕᐅᓚᐅᖅᑯᖅ ᑲᒪᒋᔭᐅᖁᓪᓗᒋᑦ ᐃᓯᒫᓘᑎᐅᔪᑦ ᑕᐃᑲᓂ ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓ ᑕᒪᓐᓇ ᐃᒥᖓ ᐃᒥᓇᔾᔭᐅᙱᒻᒪᑦ Hᐋᒻᒪᓚᖓᓐᓄᑦ ᑲᖏᖅᖠᓂᖅ. ᑖᓐᓇ ᐃᒪᐅᑉ ᓇᓕᒧᒦᓐᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᕈᑕᐅᔪᑦ ᑕᐃᑲᓂ ᐊᖅᑯᒫᕐᔪᒃ ᓇᓗᓇᐃᖅᓯᕗᑦ ᑕᒪᓐᓇ ᐃᒪ ᐱᕕᖃᖅᑎᑦᑎᑎᐊᕈᓐᓇᕐᒪᑦ ᐃᒥᕐᒥ ᑕᐃᑯᙵᖅᑐᒥ ᓂᐱᓴᐅᑉ ᑕᓯᖓᓄᑦ, ᐊᑐᐃᓐᓇᐅᑎᑦᑎᐊᑎᐊᖅᓯᓐᓈᕐᓗᓂᓗ ᑰᓐᓂᕆᔭᖓᓂᑦ ᑎᑭᐅᒪᑎᑕᐅᔪᒧᑦ ᑕᐃᑲᓂ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᒥᒃ ᓚᐃᓴᖃᖅᑎᑦᑎᓂᕐᒧᑦ ᐊᖅᑰᒫᕐᔪᒃ ᑰᖓᓂ. ᑕᐃᑲᓂ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓᓂ ᐊᒻᒪᓗ ᐊᖅᑯᒫᕐᔪᒃ ᑰᖓᓂ ᑕᕝᕙᙵᔅᓴᐃᓐᓇᖅ ᐃᒪᖃᖅᑯᒃ ᑕᕝᕙᖓᔅᓴᐃᓐᓇᖅᑐᒥᒃ ᑯᒻᒥ. ᑕᒪᓐᓇ ᐃᒪᐅᑉ ᖃᓄᐃᓐᓂᖓ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᑯᖅ ᐊᕐᖀᒍᑕᒫᑦ ᑕᒪᒃᑮᓐᓂᒃ ᑕᓯᕐᓂᒃ (GRA-6, GRA-7), ᐱᖃᓯᐅᑎᓪᓗᒍ ᓂᐱᓴ ᑕᓯᖓ (GRA-1), ᑕᐃᒪᙵᓂᑦ 2014. ᑕᒪᓐᓇ ᐃᒪᐅᑉ ᖃᓄᐃᑦᑑᓂᖓ ᑕᐃᑲᓂ ᓂᐱᓴᐅᑉ ᑕᓯᖓᓂ, ᐊᖅᑰᒫᕐᔫᑉ ᑰᖓ ᐊᒻᒪᓗ ᐊᖅᑯᒫᕐᔪᒃ ᑕᓯᖓ ᐃᒥᖏᑦ ᑕᐃᒫᓪᓗᐊᐸᓘᕗᐃᑦ. ᐊᔪᙳᕈᑕᐅᔪᓂᑦ ᐃᒪᐅᑉ ᖃᓄᐃᓐᓂᖓᓂᑦ ᑕᐃᑲᓂ ᓂᐱᓴ ᑕᓯᖓ ᒪᓗᖕᓇᖅᑐᒃᑲᙱᑕᖅ ᐅᕝᕙᓘᓐᓃᑦ ᓂᕆᐅᒋᔭᐅᔪᖃᙱᓚᖅ.

Personnel

Personnel on site: 1
Days on site: 1000
Total Person days: 1000
Period of operation: from 2017-06-09 to 2024-05-01
Proposed term of operation: from 2024-05-01 to 2024-05-01

Activités

Activités

Emplacement	Type d’activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
GRA-1 Nipissar Lake Water Supply	Sampling sites	Municipal	Location of Nipissar Lake Pumphouse and intake for the community water supply. Water is transported via underground pipeline to the Williamson Lake Pumphouse in Rankin Inlet for treatment and distribution.	No known archaeological/paleontological value.	With Hamlet of Rankin Inlet Municipal Boundaries.
GRA-6 Char River Water Pumped to Nipissar Lake	Sampling sites	Municipal	Current intake location for seasonal resuppply pipeline.	No known archaeological/paleontological value.	With Hamlet of Rankin Inlet Municipal Boundaries.
GRA-7 Lower Landing Lake (approximate proposed pumping location)	Sampling sites	Municipal	Proposed intake location and extension of seasonal intake. Lower Landing Lake feeds Char River.	No known archaeological/paleontological value.	With Hamlet of Rankin Inlet Municipal Boundaries.
GRA-3 Sewage Treatment Facility	Waste disposal	Municipal	Sewage Treatment Facility - samples are collected from within the building before effluent discharge to Prairie Bay, Hudson Bay.	No known archaeological/paleontological value.	Within Hamlet of Rankin Inlet Municipal Boundaries.

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Rankin Inlet	Megan Lusty	Hamlet Council - update on current water volumes in Nipissar Lake and intention to move intake to Lower Landing Lake, pending regulatory approvals.	2017-01-30

Autorisations

Indiquez les zones dans lesquelles le projet est situé

Kivalliq

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l’émission/de la demande	Date d’échéance
Office des eaux du Nunavut	Type 'A' Water Licence 3AM-GRA1624	Active	2016-05-02	2024-05-01
Autre	Nunavut Planning Commission - NPC File #148311, 3AM-GRA1624 GN-CGS Rankin Inlet Water Licence Amendment. Project proposal conforms to the KRLUP. NPC determined significant modification to the project and screening is required by the NIRB.	Active	2016-06-19	
Autre	NIRB Screening Decision Report, File #13UN037. Screening decision for the GN-CGS "Hamlet of Rankin Inlet: Amendment Application - Seasonal Replenishment of Nipissar Lake".	Active	2014-06-26	
Autre	NIRB Exempt from screening, File #13UN037. Application Exempt from the Requirement for Screening pursuant to Section 12.4.3 of the NLCA: GN-CGS "Hamlet of Rankin Inlet: Amendment Application - Seasonal Replenishment of Nipissar Lake".	Active	2015-05-27	

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d’équipement	Quantité	Taille – Dimensions	Utilisation proposée
Diesel powered generator	1	75hp, same as currently used	Power pump for water transfer from Char River/Lower Landing Lake to Nipissar Lake
Pump	1	Maximum 0.04 m3/s, same as currently used	Pump for water transfer from Char River/Lower Landing Lake to Nipissar Lake
Floating Intake	1	Conforms with DFO Guidelines, same as currently used	Water intake from Char River/Lower Landing Lake
Seacan	1	20ft, same as currently used	Houses pump and generator at Char River/Lower Landing Lake
Pipeline	1	4.05km (same as currenly used) + 0.2km (new, to be installed upon approval)	Overland resupply pipeline from Char River/Lower Landing Lake

Décrivez l’utilisation du carburant et des marchandises dangereuses

Décrivez l’utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Diesel	fuel	1	250	250	Gallons	Generator

Consommation d’eau

Quantité quotidienne (m3)	Méthodes de récupération de l’eau proposées	Emplacement de récupération de l’eau proposé
3485	Seasonal floating intake	Lower Landing Lake

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d’élimination	Procédures de traitement supplémentaires
Waste disposal	Eaux usées (matières de vidange)	772,000 m3 (projected 2024 volume)	Discharge to Prairie Bay, Hudson Bay.	Wastewater Treatment Plant with Monster Augers

Répercussions environnementales :

Rankin Inlet water consumption has exceeded natural recharge to Nipissar Lake for many years. The overland resupply pipeline from Char River was constructed to supplement the water in Nipissar Lake, to prevent further decrease in water level. The “Nipissar Lake and Lower Landing Lake Water Balance Assessment” by Golder Associates (attacged) details the suitability of Lower Landing Lake to provide supplementary water to Nipissar Lake for a significantly longer term than the current Water Licence 3AM-GRA1624 expiry on May 1, 2024. Using Nunavut Bureau of Statistics population projects, the required supplementary water volumes are not expected to exceed 10% of the flow in Char River until 2082, using current per capita consumption rates. Water samples collected in 2014, 2015 and 2016 have determined that Lower Landing Lake, Char River and Nipissar Lake all have similar water chemistry. The Water Pumping Adaptive Management Plan details this monitoring and is also attached.

Description de l’environnement existant : Environnement physique

Description de l’environnement existant : Environnement biologique

Description de l’environnement existant : Environnement socio-économique

Identification des répercussions et mesures d’atténuation proposées

Répercussions cumulatives

Impacts

Identification des répercussions environnementales

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
Construction																									
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Exploitation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Désaffectation																									

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(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Project Map