

$\gamma_b \Delta^c \dot{\gamma} \Pi \sigma^b \quad \Lambda_{\text{C}} \sim \Delta^{\gamma_b} \gamma \sigma \Delta \sim \Delta^{ab} L^a \sigma^b$

ᐅᓂᓄᓇᓂᓗ: Executive Summary of the Municipality of Kimmirut Water Licence #3BM-KIM 1929 for amendment in order to accommodate the construction of the New Wastewater Treatment Facility (WWTF). Kimmirut is located on the southern end of Baffin Island at 62°50'48"N and 069°52'07"W. Kimmirut is a small community with a current population of 511 in 2020. Like most communities in the north, Kimmirut is only accessible year-round by plane. Boat access to the community is available for a limited number of months during the year. This small community is currently 100% serviced by a trucked system for both water delivery and sewage collection. For the past 30 years, they have discharged the untreated wastewater into a trench near the community's solid waste facility. This trench drains over a steep (average slope 4:1) embankment into the ocean through Lake Harbour. The current sewage disposal system provides only preliminary treatment, with some further primary treatment occurring during the summer months when vegetation is present and active. This facility is non-compliant. It is estimated that Kimmirut produces roughly 18,500 cubic meters of wastewater annually. The Government of Nunavut (GN) is proceeding with the design and construction of a new Waste Water Treatment Facility at "Site 9" (62°50'15.4N and 69°52'35.2W) in Kimmirut, Nunavut. The new WWTF will be designed to meet the community's waste water requirements for 20 years. The proposed site for the new sewage lagoon has been supported by the Hamlet Council of Kimmirut and approved by Transport Canada. The GN is currently in the design phase of this new WWTF project. A feasibility study conducted in 2015 determined that the optimal design of the new WWTF in Kimmirut is to build a sewage lagoon using an existing pond at Site 9 in Kimmirut. Two design options have been considered for this site. The first design option provides a secondary treatment process through the use of an impermeable berm to allow for a one year retention period. The second design option includes an enhanced preliminary treatment process using a permeable berm that allows for continuous discharge from the lagoon. In both cases, the lagoon will discharge along a path that flows overland into the marine environment of Lake Harbour. The effluent quality will be further enhanced by the overland flow and the design of permeable berms along the overland flow path. The new lagoon will be designed to meet all regulatory standards and requirements, including the 2019 water licence effluent criteria. These design considerations will result in improved effluent criteria that will ensure the health and safety of those living in Kimmirut along with the environment. The future consultant will design the facility considering the best option. This Design Brief will be approved by the NWB prior to starting construction. The project is expected to be completed in 2021. The design phase will commence in March 2020 with construction expected to start in July 2021. Commissioning of the new sewage lagoon is expected to occur in November 2021 after successful training and handoff of operations to the Hamlet. The existing Water Licence #3BM-KIM1929 was issued on May 27, 2019 and will expire on May 26, 2029. The proposed amended water licence will accommodate the construction of the new WWTF which is anticipated to be commissioned in 2021. The as-built drawings and O&M manual will be made available to operate the new facility.

$\triangleright \Delta \dot{\Delta} \cap \mathcal{D}^c$: Not applicable

[illegible]

ለፍጥነት ማስፈጸም የሚያስፈልጉት

ጉዞ	የፍጥነት ማስፈጸም ስልጣን	የፍጥነት ማስፈጸም ዓይነት	የፍጥነት ማስፈጸም ዓይነት	የፍጥነት ማስፈጸም ዓይነት	የፍጥነት ማስፈጸም ዓይነት
New project geometry	Other	Municipal	N/A	N/A	Kimmirut

የፍጥነት ማስፈጸም ዓይነት ማስፈጸም ዓይነት ማስፈጸም ዓይነት ማስፈጸም ዓይነት

የፍጥነት ማስፈጸም ዓይነት	የፍጥነት ማስፈጸም ዓይነት	የፍጥነት ማስፈጸም ዓይነት	የፍጥነት ማስፈጸም ዓይነት
Information is not available			

ᄒᄆᅃᆫ ᄇᄊᅃᄂᆺ ᄈᅃᆯᅃᄌᄀᄆᄀᄀᄀ

$a^b r^c \Delta \sigma^d \gamma^e$ $\Lambda c_n d_n^e \Delta \sigma^f \gamma^g$ $n n f^g r^h$:

South Baffin

$\epsilon \Delta^{\alpha} j^c \wedge J^{\omega} e_D \dot{n} \lrcorner R^{\alpha\beta} C D F L \downarrow^c$

<p>ሲቪል ማስተካከያ ሰነድ ባለቤቱ የሚሰጠው ሲቪል ማስተካከያ ሰነድ ለፍትህ ሚኒስቴር በሚሰጠው ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ</p>	<p>የፍትህ ሚኒስቴር ሲቪል ማስተካከያ ሰነድ ለፍትህ ሚኒስቴር በሚሰጠው ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ</p>	<p>ሲቪል ማስተካከያ ሰነድ ለፍትህ ሚኒስቴር በሚሰጠው ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ</p>	<p>ሲቪል ማስተካከያ ሰነድ ለፍትህ ሚኒስቴር በሚሰጠው ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ</p>	<p>ሲቪል ማስተካከያ ሰነድ ለፍትህ ሚኒስቴር በሚሰጠው ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ</p>
<p>ሲቪል ማስተካከያ ሰነድ ለፍትህ ሚኒስቴር በሚሰጠው ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ ሲቪል ማስተካከያ ሰነድ</p>	<p>Type B License</p>	<p>Active</p>		

Project transportation types

Transportation Type	Estimated Cost	Length of Use
Land	Heavy Equipment	

Project accomodation types

መርህ ፭

၎်း

၎်း

၎်း	၎်း	၎်း	၎်း	၎်း
၎်း	၎်း	၎်း	၎်း	၎်း
Information is not available				

၎်း

Not applicable

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]

ᐱᓪᑦ ᐃᑲᐅᑦ ᖃᓄᐃᑦᑐᑦ ᑕᓚᐅᓂᖅ: ᐅᐱᒋᖃᑕᖃᖃᓂᖅ

[illegible]

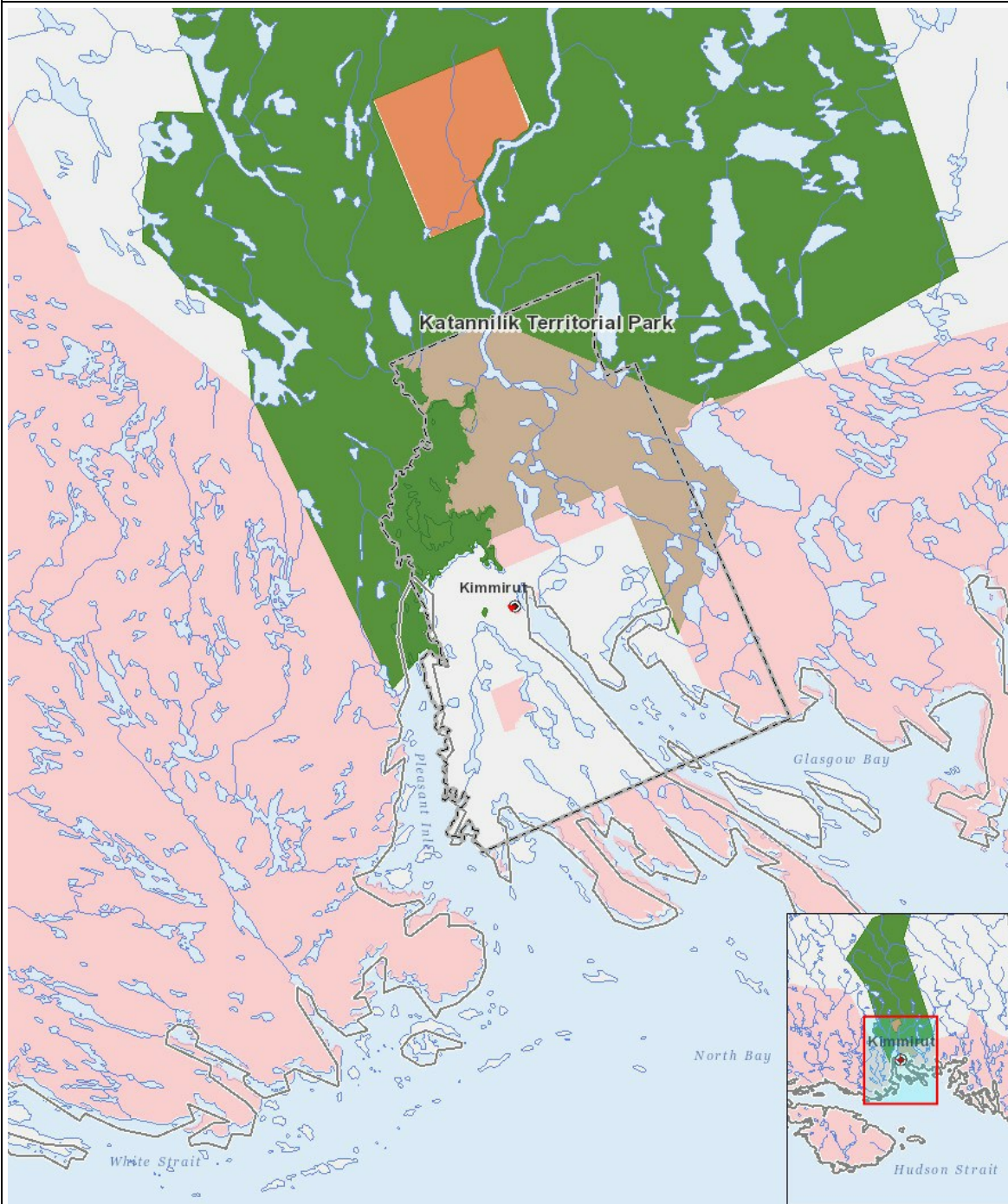
Miscellaneous Project Information

$\alpha \rightarrow \Delta^{\text{fb}} \text{CD} \sigma^{\text{fb}} \Gamma^{\text{C}} \quad \Delta^{\text{b}} \text{fb} \text{CD} \Gamma^{\text{L}} \Gamma^{\text{C}} \quad \text{fb} \Delta^{\text{C}} \sigma^{\text{fb}} \Gamma^{\text{C}} \quad \langle \text{CD} \Gamma^{\text{L}} \Gamma^{\text{L}} \text{fb} \text{CD} \sigma^{\text{fb}} \Gamma^{\text{C}} \rangle$

Cumulative Effects

Impacts

[illegible][illegible]
$$(P = \langle b \rangle \Delta_P \cap \langle \Delta^a \rangle^C, N = \langle b \rangle \Delta_P \langle \Delta \rangle \langle \Delta^a \rangle^C \langle \Delta \Gamma \rangle \langle \Delta^b \rangle^C \langle \Delta \rangle \langle \Delta^a \rangle^C, M = \langle b \rangle \Delta_P \langle \Delta \rangle \langle \Delta^a \rangle^C \langle \Delta \Gamma \rangle \langle \Delta^b \rangle^C \langle \Delta \rangle \langle \Delta^a \rangle^C, U = \langle b \rangle \Delta \langle \Delta^a \rangle^C \langle \Delta^b \rangle^C)$$



List of Project Geometries

1	polygon	New project geometry
---	---------	----------------------