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Community Support Division
Government of Nunavut
p.o. box 700 station 1000
Iqaluit Nunavut x0a0h0
Canada
ᐅᓴᐅᐅᓴᓴ: 867-975-5478, ᐱᑲᓴᐅᓴ:

ፍጹሙ ጋር ለሥራ ለመገባደግ ለሚችሉ ሰዎች

ᐅᓄᓂᓴᓂᓴ: The Government of Nunavut Department of Community and Government Services, on behalf of the Municipality of Kinngait (Cape Dorset), is applying to amend water licence 3BM-CAP1925 in the Municipality of Kinngait to proceed with the construction of a mechanical wastewater treatment plant (WWTP). As part of the feasibility study, several sites for the WWTP were considered and evaluated. The recommendation was for the WWTP to be located west of the existing metal and wood recycling site, adjacent to the existing outfall from the emergency lagoon. The new WWTP will be designed to provide reliable treatment of all truck-collected sewage from the community for a 20-year horizon (2025 to 2045) replacing the existing wastewater lagoon system (3-tier lagoon, emergency lagoon, and P-Lake). The estimated daily flow of wastewater is 184 m³ by 2025 based on population projections and per capita wastewater generation calculations. The expected effluent quality will exceed current water licence criteria. Based on the WWTP technology, the effluent quality is expected to have the following characteristics: BOD₅: 25 mg/L; TSS: 25 mg; un-ionized ammonia: 1.25 mg/L; faecal coliform: 200 CFU/100 mL; pH: 6.0 – 9.0; and oil and grease: no visible sheen. The effluent would be discharged by a heat-traced pipe from the WWTP to the existing emergency lagoon outfall at Foxe Channel (CAP-5). Calculations estimate 25.6 tonnes of dry solid sludge would be produced by the WWTP in 2025 and 88.4 tonnes of dry solid sludge by 2045. A sludge management plan has been established, which plans for the sludge to be brought to a holding pad at the existing landfill where the sludge will be dewatered in geomembrane bags. All other previously submitted information for this water licence remains the same.

▷Δ&ΠΔ°: Le ministère des Services communautaires et gouvernementaux du gouvernement du Nunavut, au nom de la municipalité de Kinngait (Cape Dorset), demande la modification du permis d'utilisation des eaux 3BM-CAP1925 dans la municipalité de Kinngait afin de procéder à la construction d'une station de traitement mécanique des eaux usées. Dans le cadre de l'étude de faisabilité, plusieurs sites ont été envisagés et évalués pour la station de traitement des eaux usées. Il a été recommandé d'implanter la station à l'ouest du site actuel de recyclage des métaux et du bois, à côté de l'exutoire existant du bassin d'épuration d'urgence. La nouvelle station de traitement des eaux usées sera conçue pour assurer une épuration fiable de toutes les eaux usées collectées par les camions de la communauté sur une période de 20 ans (2025 à 2045), en remplacement du système de lagunage existant (lagunage à trois niveaux, lagunage d'urgence et lac P). Le débit journalier d'eaux usées est estimé à 184 m³ en 2025 sur la base des projections démographiques et des calculs de production d'eaux usées par habitant. La qualité attendue des effluents dépassera les critères actuels du permis d'utilisation des eaux. Sur la base de la technologie de la station de traitement des eaux usées, la qualité des effluents devrait présenter les caractéristiques suivantes : DBO₅ : 25 mg/L; TSS : 25 mg ; ammoniac non ionisé : 1,25 mg/L ; coliformes fécaux : 200 UFC/100 ml ; pH : 6,0 - 9,0 ; et huile et graisse : pas de reflet visible. Les effluents seraient évacués par une canalisation calorifugée depuis la station de traitement des eaux usées jusqu'à l'exutoire de l'étang d'épuration d'urgence existant dans le chenal Foxe (CAP-5). Les calculs estiment que la station de traitement produira 25,6 tonnes de boues solides sèches en 2025 et 88,4 tonnes de boues solides sèches en 2045. Un plan de gestion des boues a été établi, qui prévoit que les boues soient amenées sur une plateforme de rétention dans la décharge existante, où elles seront déshydratées dans des sacs en géomembrane. Toutes les autres informations précédemment soumises pour ce permis d'utilisation des eaux demeurent inchangées.

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Inuinnaqtun: Nunavut Kavamangani Nunalingni Kavamatkunnili Pivikhaqautikkut Havagvia, pidjutigiplugu Haamlanga Kinngait, (Cape Dorset), uuktuliqtuq ihuaqhariaimi imakktu laisinga 3BM-CAP1925 uvani Haamlangani Kinngait hivumuujaaami uumunga nappaqtirnimmun ingilrutiqaqtukktu halumaittunik-imarnik halummaqtirutikktu havagvingmik (WWTP)Ilauningani pittaataarutikhaanun qaujiharnirmi, qaffit iniit uumunga halumaittunik-imarnik halummaqtirutikktu havagvikhamun ihumagijaujun naunaijaqtaujullu. Pitqujahimajuq una WWTP talvungaqluni uataanun talvaniittumin havigalingni qiuknilu atuqtauffaaqtaqtunin ininganin, haniraliingniani tahamaniittumi kuviraqvianin talvani amirarnakhikpat halumaittunun-imarqarvingmi.Nutaaq WWTP piliuqtauniaqtuq tunijaami ihuaqtunik halummaqtirutinik tamainni akhaluutinin-anaqtautinin anakuinnik nunallaamin uvunga 20nik-ukiuqaqtumik pidjutimi (2025min 2045mun) himauhiqlugu tahamaniittuq halumaittuq-imait halumaittunun-imaqarvingmun pidjutaanun (3nik-qaliriilik imaqarvik, amigarnaqhikpat imaqarvik, unalu P-Lake tahi). Itqurniaqhimajuq ubluq tamaat kuviniit halumaittunik-imarnik una 184 m³ talvuuna 2025 tunnganiani inugiangnirni naunaijarnirni uvanilu tamainni inungni halumaittuni-imarni piliurutainnik kihitiinni.Niriuktaujun anakiunnik qanurinniit avatqunniqaqtait tadjja atuqtuq imakktu laisingani maliktakhat. Tunnganiqarningani uumani WWTPkut ingilrutainni, anakiunnik qanurinniit niriuktaujuq piqarluni hapkuninga qanuridjutinik: BOD5: 25 mg/L; TSS: 25 mg; un-ionized ammonia: 1.25 mg/L; faecal coliform (ananin qupilruit): 200 CFU/100 mL; pH: 6.0 – 9.0; uqhuquuat uqhuillu: takunnaittuq qiplaringnirnik. Halumaittun imait kuviraqtauttaaqtuq uvuunga uunnakhimajumin tuqhuamin uumanga WWTP talvunga tahamaniittumun amirarnakhikpat halumaittunun-imarqarvingmi kuvirarvianun uvani Foxe Channel-mi (CAP-5).Naunaijarutit itqurniaqhimajun 25.6 tonnes uvani paniumajuni naptujuni marlungmi piliuqtaaqtuq WWTPmin 2025mi imaalu 88.4 tonnes uvani paniumajumi naptujuni marlungni 2045kut. Uvani marlungni munaridjutikhakktu uplaungaidjutikhaq piliuqtauhimaliqtuq, upalungaighimajuq malrungnik agjaqtauniaqtuq najuqvikhaani talvaniittumi iqqakuurvingmi talavani marliut imaijaqtauniaqtuq ukunani inngaqtaaqtaunik (geomembrane) puukattani.Tamaita aallat hivuagun tunuqhimajun ilittuirpkaidjutit uumunga imakktu laisigamun huli aajjikkiiktut.

Post-Closure Phase: from to

$\mathbb{C} \Delta^{\text{a}} j^c \wedge J^{\text{a}} q \triangleright \dot{n} \triangleleft^{\text{a}} r^{\text{ab}} C \triangleright p L r^c$

Project transportation types

Project accomodation types

 ΔP_{air}

A^cd^c d^ar^a^b d^c^bC^bD^bσd^ar^a^b ΔL^cb^aD^aN^ar^c Δd^cCΔ^c, Γ^c-^ad^ap^an^c, ^bb^aL^cC^ai^b, m^ae^ar^aD^c d^ar^ar^c-^a

[illegible]

ΔL^{ϕb} ◀D^{ϕb} C▶ϕL^{ϕb} D^{ϕb}

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299	The wastewater treatment plant will receive wastewater trucked from sewage holding tanks in the	A septage receiving station is apart of the wastewater treatment plant design for receiving all

community.

trucked sewage deliveries.

$$\Delta^b C d r n \sigma \Delta^c \sigma^c b$$

$\triangleleft \nabla \cap \Gamma \triangleright C^{\circ} J^C \triangleleft^b J^{cb} C \triangleright I L \nabla^c$

Use of insulating materials around the foundation to prevent heat transfer from the building into the permafrost.

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 I1: Municipal Development

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Miscellaneous Project Information

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Cumulative Effects

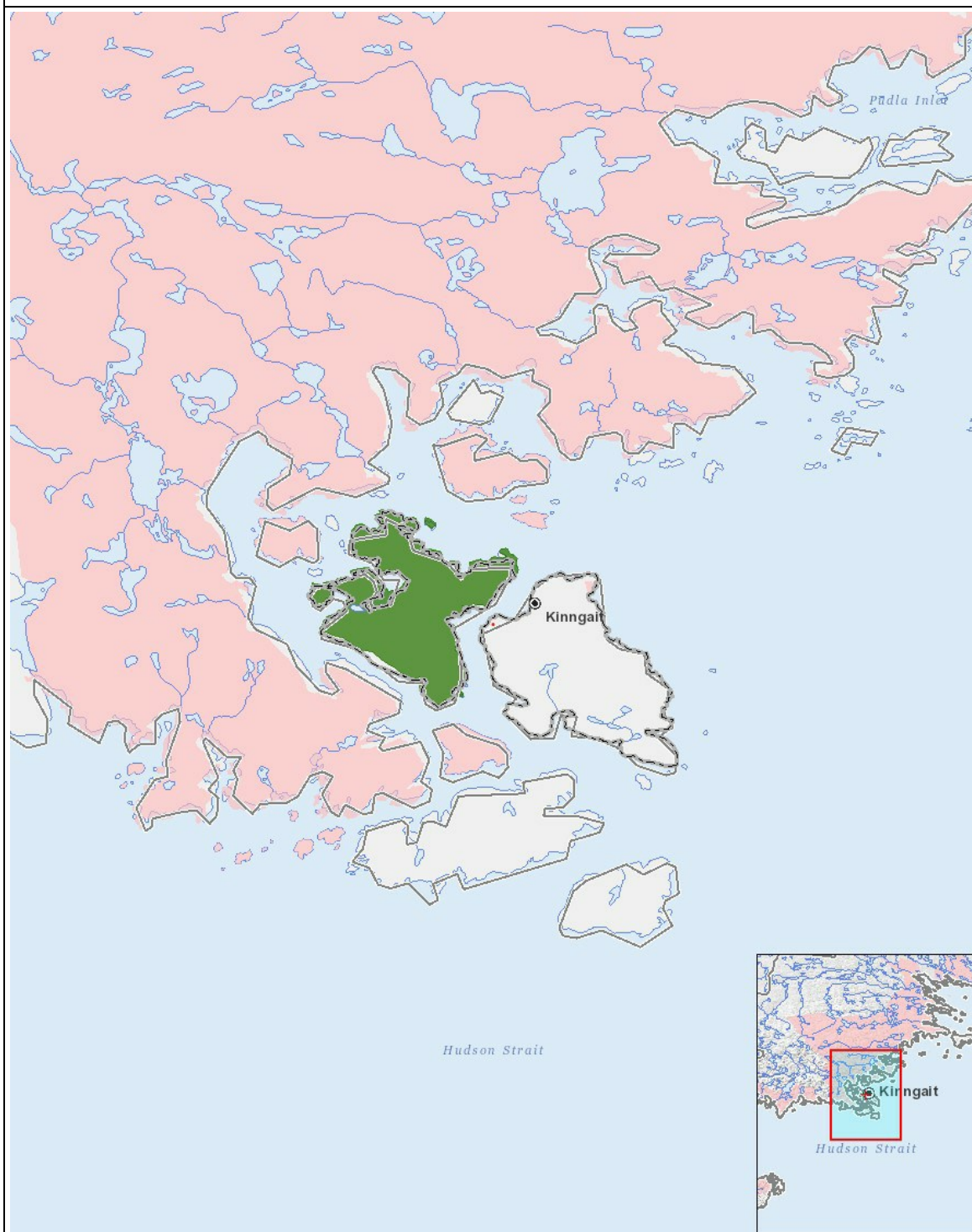
Impacts

$\mathbb{A}^b \mathbb{C} \triangleright \sigma^a \tau^c \triangleleft \mathbb{B} \Gamma \triangleright \mathbb{C} \dot{\sigma}^c \mathbb{D}^c \triangleleft \mathbb{D}^b \mathbb{C} \triangleright \gamma \mathbb{L} \gamma^c$

		P H Y S I C A L										B I O L O G I C A L										S O C I O - E C O N O M I C																								
		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		Vegetation		Wildlife, including habitat and migration patterns		Birds, including habitat and migration patterns		Aquatic species, incl. habitat and migration/spawning		Wildlife protected areas		Archaeological and cultural historic sites		Employment		Community wellness		Community infrastructure		Human health	
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$$(P = \langle b \rangle_{\Delta_P \cap \Gamma^a_{\Delta^b} \mathcal{C}}, N = \langle b \rangle_{\Gamma^a \mathcal{C} \cap \Gamma^a_{\Delta^b} \mathcal{C}} \langle \mathcal{C} \Gamma^b \mathcal{C} \rangle_{\Gamma^a_{\Delta^b} \mathcal{C}}, M = \langle b \rangle_{\Gamma^a \mathcal{C} \cap \Gamma^a_{\Delta^b} \mathcal{C}} \langle \mathcal{C} \Gamma^b \mathcal{C} \rangle_{\Gamma^a_{\Delta^b} \mathcal{C}}, U = \langle b \rangle_{\Gamma^a_{\Delta^b} \mathcal{C}})$$

$a\dot{\Gamma}^L L^a \dot{j}^b \wedge c n \triangleleft n \triangleright d^b$



List of Project Geometries

1	polygon	New Mechanical Wastewater Treatment Plant
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