



NIRB Uuktuutinga Ihivriuqhikhamut #125874

CD-Wastewater Treatment Plant

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Imaktigut

Uuktuutinga Ublua: 1/25/2024 1:05:18 PM

Period of operation: from 2028-01-01 to 2045-12-31

Havaauhikhaq Ikayuqtinga: Community Support Division

Government of Nunavut

p.o. box 700 station 1000

Iqaluit Nunavut X0A 0H0

Canada

Hivayautit Nampanga:: 867-975-5478, Kayumiktukkut Nampanga::

QANURITTUT

Tukihiannaqtunik havaariyauyumayumik uqauhiuyun

Qablunaatitut: 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.

Viviitut: 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.

Инуктитут: **Информация о проекте по строительству и эксплуатации очистных сооружений в г. Умма-Калека (WWTP) в 2025-2045 гг.**

Inuinnaqtun: Nunavut Kavamangani Nunalingni Kavamatkunnillu Pivikhaqautikkut Havagvia, pidjutigiplugu Haamlanga Kinngait, (Cape Dorset), uuktuliqtuq ihuaqhariami imakkut laisinga 3BM-CAP1925 uvani Haamlangani Kinngait hivumuujaami uumunga nappaqtirnirmun ingilrutiqaqtukkut halumaittunik-imarnik halummaqtirutikkut havagvingmik (WWTP)Ilauningani pittaataarutikaanun qaujiharnirmi, qaffit iniit uumunga halumaittunik-imarnik halummaqtirutikkut havagvikhamun ihumajijaujun naunajaqtajullu. Pitqujauhimajuq una WWTP talvungaqluni uataanun talvaniittumin havigalingni quiuknilu atuqtauffaaqtaaqtunin ininganin, haniraliingniani tahamaniittumi kuviraqvianin talvani amirarnakhikpat halumaittunun-imarqarvingmi.Nutaaq WWTP piliuqtauniaqtuq tunijaami ihuaqtunik halummaqtirutinik tamainni akhaluutinin-anaqtautinik anakuinnik nunallaamin uvunga 20nik-ukiuqaqtumik pidjutimi (2025min 2045mun) himauhiqlugu tahamaniittuq halumaittuq-imait halumaittunun-imaqarvingmun pidjutanun (3nik-qaliriilik imaqarvik, amigarnaqhikpat imaqarvik, unalu P-Lake tahiq). Itqurniaqhimajuq ubluq tamaat kuviniit halumaittunik-imarnik una 184 m³ talvuuna 2025 tunnganiani inugiangnirni naunaijarnirni uvanilu tamainni inungni halumaittuni-imarni piliurutainnik kihitiinni.Niriuktaujun anakiunnik qanurinniit avatqunniaqtaidjadua atuqtuq imakkut 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; uqhuqjuat uqhuillu: takunnaittuq qiplaringnirnik. Halumaittun imait kuviraqtauttaaqtun 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 imaal 88.4 tonnes uvani paniumajumi naptujuni marlungni 2045kut. Uvani marlungni munaridjutikhakkut uplaungaidjutikhaq piliuqtauhimaliqtuq, upalungaiqhimajuq malrungnik agjaqtauniaqtuq najuqvikhani talvaniittumi iqqakuurvingmi talavani marliut imajaqtauniaqtuq ukunani inngaqtaaqtunik (geomembrane) puukattani.Tamaita aallat hivuagun tunuqhimajun ilittuirpkaidjutit uumunga imakkut laisigamun huli aajjikkiiktut.

Personnel

Personnel on site: 2

Days on site: 365

Total Person days: 730

Operations Phase: from 2025-05-01 to 2027-12-31

Operations Phase: from 2028-01-01 to 2045-12-31

Post-Closure Phase: from to

Hulilukaarutit

Inigiy	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuguqtut akhuurninnga	Qanitqiayuq qanitqiamut nunallaat kitulluuniit ahiruqtailiyainnit nuna
New Mechanical Wastewater Treatment Plant	Municipal and Industrial Development	Municipal	Current municipal waste site.	None.	Apart of the municipality.

Nunaliin Ilauyun, Aviktuqhimiayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigyaungmata
Kinngait	Louis Primeau	Hamlet of Kinngait	2024-09-10

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuuq	Tadja Qanurittaakhaanik	Ublua Tuniayuuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Imaligiyit Katimayit	3BM-CAP1925 Water Licence	Active	2019-05-22	2025-05-21
Alaanut	Municipality of Cape Dorset Motion Number 153-2017 Approval of mechanical wastewater treatment plant	Active	2017-10-30	
Alaanut	Municipality of Cape Dorset Motion Number 154-2017 Approval of approve across the emergency lagoon for the wastewater treatment plant	Active	2017-10-30	

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	Construction phase personnel to fly in/out by air.	
Land	Operations phase personnel (2 people) will be from the local community.	

Project accomodation types

Temporary Camp

Nunauyuq

Ihuaqtivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
LAND RESCAPING HEAVY CONSTRUCTION MACHINERY	10	xyz	all heavy earth moving construction machinery used in constructing permanent structures.
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Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Diesel	fuel	1	10000	10000	Liters	DPD diesel fuel supply will be used for refueling purposes of dozers', excavators, compactors, trucks, concrete mixers and portable power supply generators

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqtittagaani qanuq	Atulirumayain imavaluin utiqtittagani humi
299	The wastewater treatment plant will receive wastewater trucked from sewage holding tanks in the community.	A septic receiving station is apart of the wastewater treatment plant design for receiving all trucked sewage deliveries.

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiayuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarlungaa	Halummaqtirarnirutikan piyutin
Waste disposal	Anaagun (inuin anaagun)	25.6 tonnes	Sludge to be disposed at existing landfill	Dewatering sludge in geomembrane bags

Avatiliriniqmut Ayurhautingit:

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

Qanurittuq Ittunik Avatinga: Avatingalluanga

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

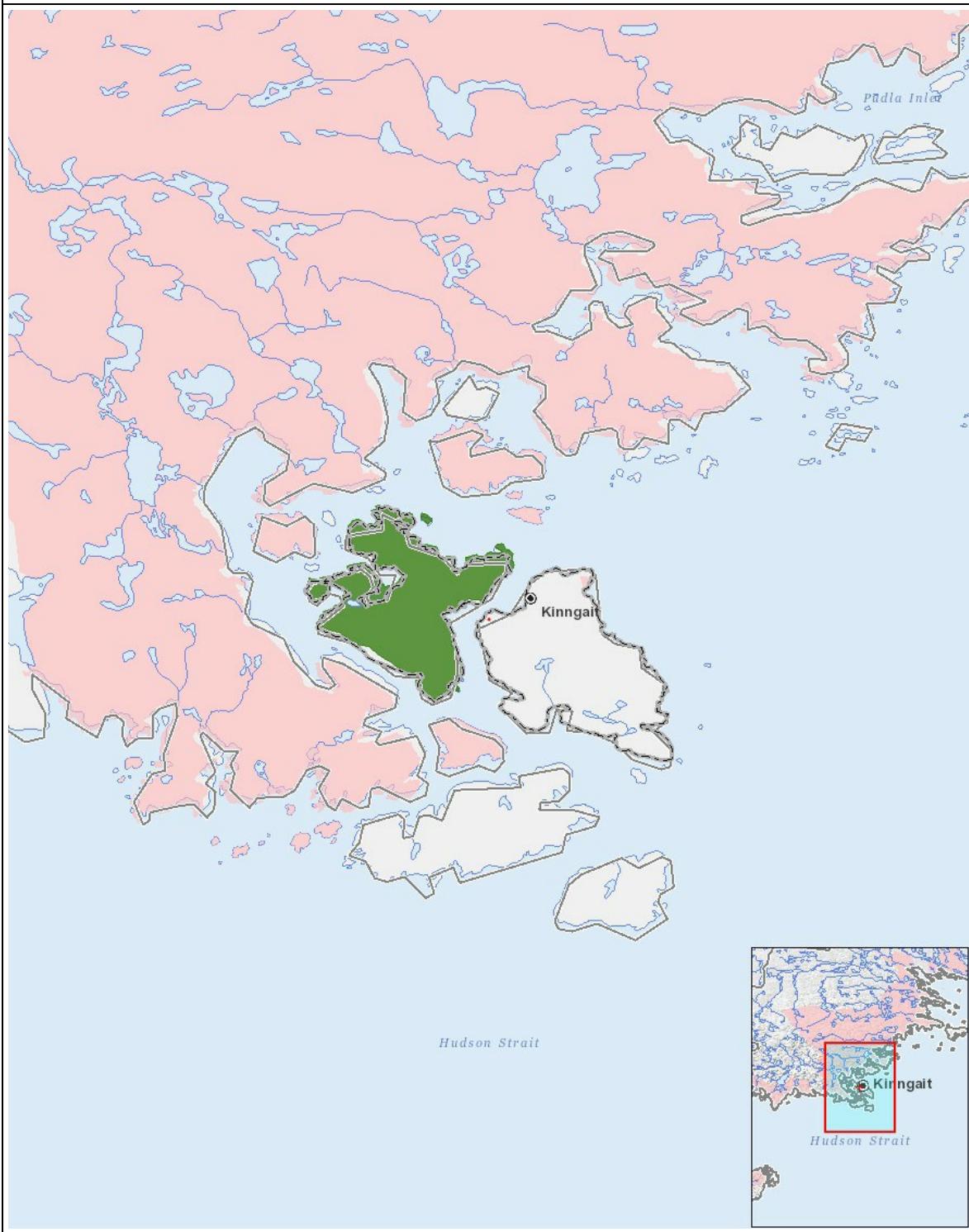
Tamatkiumayunik Ihuikgutivaktunik

Impacts

Iilitariyauniq Avatiliriniqmut Ayurhautingit

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyaukhamut Nayugaa



List of Project Geometries

1 polygon New Mechanical Wastewater Treatment Plant