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2/11/2021 9:50:35 AM

Period of operation: from 0001-01-01 to 0001-01-01

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Λεπτομέρεια:

Eleanor McEwan

Fisheries and Oceans Canada -Small Craft Harbours Branch

501 University Crescent

Winnipeg Manitoba R3T 2N6

Canada

ᐅᓴᓐᓇᐅᓴᓐ: 204-805-3828, ᓴᓐᓴᓐᓴᓐ:

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$${}^{\epsilon}\mathfrak{b}_{\Delta}{}^{\zeta}\mathfrak{N}_{\sigma}{}^{\flat} \quad \wedge \text{c} \text{ n} \mathfrak{d}{}^{\epsilon}\mathfrak{b}{}^{\epsilon}\sigma \mathfrak{d} \text{ n} \mathfrak{d}{}^{\flat}\mathfrak{L}{}^{\flat}\sigma{}^{\flat}$$

٩٦٤٠٠٠٠: see PDF of Project description (attached)

ᐃᐃᐱᑎᓂᑦ: n/a for North Baffin

$\Delta_{\sigma^b \cap \tau^c}$: $Cd_{-J} \nabla^b \tau_{-D} L^{qb} \cap \cap \nabla^q P L^{qb} \hookrightarrow \sigma^b b^q \sigma$ ($C^\circ \sigma^c$)^(b)

Inuinnaqtun: n/a for North Baffin

Personnel

Personnel on site: 30

Days on site: 366

Total Person days: 10980

Operations Phase: from 2022-06-08 to 2025-10-08

Operations Phase: from 2025-10-09 to 2049-10-09

Post-Closure Phase: from to

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Transboundary
North Baffin

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Environment and Climate Change Canada	Disposal at Sea (DAS) is not considered likely, however if required a DAS application will be submitted to Environment and Climate Change Canada (ECCC). A sample analysis plan (SAP) was submitted to and approved by ECCC for sediment analysis in the dredge footprint of the SCH. ECCC has been engaged from an early stage in project planning as the proponent (DFO- SCH) is a federal agency	Not Yet Applied		
ᓂᓐᓂᓐ ᓂᓐᓂᓐ ᓂᓐᓂᓐ	A Notice of Works (NoW) is expected to be required from Transport Canada due to the potential for interferences to navigation during construction, and to confirm navigational markers required during operations of the SCH. TC has been engaged	Not Yet Applied		

	from an early stage in project planning as the proponent (DFO-SCH) is a federal agency. Maintaining access for harvesters to the marine environment during construction has been a key part of consultation and measures will be in place during construction to confirm there are no access restrictions for hunters.			
ᑲᓇᐸ ᓄᓇᒥᐅᐸᐸ ᓕᓚ ᓂᓃᓂᓂ	a permit from NRCan is expected to be required for the transportation and storage of explosives (required for blasting). NRCan compliance requirements will be the responsibility of the contractor and will be applied for after contract award and before the start of construction	Not Yet Applied		
ᓄᓇᓂᓃᒥ ᐃᐸᐸ ᓕᓚ ᓂᓃᓂᓂ	A Type B license may be required if the haul road upgrades requires culverts to be installed or if stream alteration is required for the Project. As the streams are not major water courses, it is expected that a Type B permit will be acceptable. NWB compliance requirements will be the	Not Yet Applied		

	responsibility of the contractor and will be applied for after contract award and before the start of construction			
ბაღი ობიექტი კონსტრუქცია	A Fisheries Act Authorization (FAA) will be required due to the permanent loss of seabed habitat due to the construction of the Small Craft Harbour. DFO-Fish and Fish Habitat Protection Program (FFHPP) has been engaged from an early stage in project planning as the proponent (DFO-SCH) is a federal agency	Applied, Decision Pending		

Project transportation types

Transportation Type	რეალური გზის ტიპი	Length of Use
Air	During construction, the Project will use commercially scheduled flights, with the potential for use of chartered flights but may need to use chartered flights if the existing service cannot support the additional throughput. In addition, the Project will confirm that if commercial flights are used, that there is no effect to availability of flight service to locals	
Water	During construction, the Project will use the existing scheduled sealift deliveries	

Project accommodation types

Temporary Camp

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Equipment	Quantity	Capacity	Use
Drill	2 to 3	5 tons	Quarry
Excavator	3 to 4	30-40 tons	placing armor stone, excavating, land-based dredging
Rock Truck	4 to 5	35-40 ton articulating	Rock transportation from quarry to small craft harbour
Front End Loader	2 to 3	966 to 988	Loading and moving rock
Compactor	1	20 tons	Compacting and surfacing roads
Dozer	1	D8	Levelling placed rock and road surfaces
Grader	1	140	Road maintenance
Spud Barge/derrick	1	20m x 50m deck w/150t crane	Dredging, pile installation, moving/lifting materials and equipment
Dump scows	2 to 3	500 m3	Dredging support for disposal at sea
Tug	1	1000 to 1500 horsepower	Support for barge movement
Work boat	1 to 2	varies - 50 to 500 horsepower	Floating equipment moving
Pick up truck	5	crew cab 3/4 ton	Crew transportation
Mini Bus	1	15 passenger	Transportation of crew from camp to worksite
Fuel Service Truck	1	10 tons	fuelling of equipment
Telehandler	1	5 ton	moving materials and equipment
Rough terrain crane	1	80 tons	lifting materials
Rock crusher	2	X	Primary and secondary crusher for quarry rock
Vibratory and/or Impact Hammer	1	X	Driving of Piles

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						equipment, remote generators and heaters. Containers listed as 1 because fuel will be dispensed daily from existing facilities in Arctic Bay.
Gasoline	fuel	1	15000	15000	Liters	Mobile equipment, remote generators and heaters. Containers listed as 1 because fuel will be dispensed daily from existing facilities in Arctic Bay.
Propane	fuel	30	30	900	Liters	Heaters - Number of containers is an estimate - container capacity 20 to 30l
Lubes and Oils	hazardous	10	200	2000	Liters	Maintenance of mobile equipemnt
Lubes and Oils	hazardous	10	5	50	Gallons	Maintenance of mobile equipment
Oxy/acetylene	hazardous	10	140	1400	Cubic ft	Welding, cutting of steel
Paint	hazardous	10	4	40	Liters	Painting wharf hardware & miscellaneous
Explosives	hazardous	1	40	40	Metric Tons	Quarrying. Containers to be standard size.

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$$\Delta^b C d_c \sim \sigma \Delta^q \sigma^q$$
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Potential impacts have been considered relative to the proposed construction activities (described in Section 2 of the PSIR supplementary report) for the Project Study Areas (Figure 1-1, described in Section 6.6 of the PSIR supplementary report) and specific to each of the VECs and SVECs. All impacts are considered as positive or negative/mitigatable. See Section 7 of the PSIR supplementary report for further information. Mitigation and monitoring measures will be in place to minimize negative impacts (see Section 5 of the CEMP).

Additional Information

SECTION A1: Project Info

Field investigations: Several field studies have been undertaken since 2019 and received an NPC conformity determination (No. 149425), NIRB SDR (No. 19YNO31), and NIR research permit (No 02 01121-R-M). A report was submitted to NRI in English and North Baffin Inuktitut for 2019 to 2020 programs (can be provided upon request). A 2021 drilling program occurred in March 2021. NPC issued a conformity determination to confirm the field program did not require additional review from NIRB. Additional field permits were obtained from NWB (8BD-ABH2122), CIRNAC (N2021S0003) and the GN-DoE (No. LUP-2021-001). The field studies so far have supported assessment of existing conditions and the determination of potential quarry and disposal at sea sites. A drilling program was undertaken in March 2021 to inform geotechnical requirements for detailed design. Project: Supporting components for the construction of the SCH, include a quarry and a haul road. These components are summarized in the Project description and are further described in the PSIR supplementary report.

SECTION A2: Allweather Road

An existing road is planned to be used to support the transportation of rock materials from the quarry to the SCH. Upgrades to the road will occur prior to construction and will be described in the PSIR document. In required, the contractor will be responsible for necessary permits from the NWB. Measures to manage traffic interactions with the community will be described in the CEMP, and the contractor will be required to develop a Traffic Management Plan (TMP) to detail methodologies (e.g. use of dust suppressants, speed limits, training requirements) to be undertaken to support CEMP requirements.

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

a quarry will be required to support construction of the SCH (see preferred quarry location in Figure 1-1). Activities expected to occur at the quarry include drilling, blasting, stockpiling, crushing and screening. A summary of construction activities is provided in Section 2 of the PSIR supplementary report.

SECTION D1: Facility

See Project information section of this online application and Section 2.1 of the PSIR supplementary report

SECTION D2: Facility Construction

construction activities expected to be required at the SCH includes; infill, dredging, disposal at sea (unlikely) pile driving, and installation of small craft floats. A summary of construction activities is provided in Section 2 of the PSIR supplementary report

SECTION D3: Facility Operation

the SCH once operational will remain the responsibility of DFO-SCH. An Operations Environmental Management Plan (OEMP) will be prepared prior to operations of the SCH. There are not expected to be any differences in vessel use before and after the construction of the SCH. If any potential fisheries are successful, these are not a part of the current Project, and will be submitted to the Nunavut Planning Commission (NPC) for referral to NIRB under a separate application.

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

there is no shipping associated with the project construction as all materials will arrive under existing scheduled sealift deliveries.

SECTION H2: Disposal At Sea

it has not been determined if disposal at sea is required, however the preferred DAS site is shown in Figure 1-1.

SECTION I1: Municipal Development

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the physical environment is described in Sections 3 to 7 of the ESEB report (Environmental and Socio-Economic Baseline Report) and summarized in Section 6.4 of the PSIR supplementary report. Both documents have been uploaded to the NIRB portal.

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the biological environment is described in Sections 8 to 12 of the ESEB report and summarized in Section 6.5 of the PSIR supplementary report

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the socio-economic environment, including archaeological conditions are described in Sections 13 and 14 of the ESEB report and summarized in Section 6.5 of the PSIR supplementary report.

Miscellaneous Project Information

no miscellaneous information to add at this time

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Identification of potential and impacts and proposed mitigations will be summarized in Section 6 of the PSIR document. A construction environmental management plan (CEMP) is being developed which will provide details of mitigation and monitoring measures required to minimize or eliminate potential effects. Potential effects will be considered relative to the proposed construction activities for each of the Valued Ecosystem Components (VECs) and Valued Socio-Economic Components (VSECs) identified. Mitigation and monitoring measures being developed are being informed by best management practices, community consultation and regulatory conditions.

Cumulative Effects

there are not expected to be cumulative effects due to the Project. see Section 7.4 of the PSIR supplementary report for further discussion.

Impacts

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	PHYSICAL																BIOLOGICAL								SOCIO - ECONOMIC				
	Designated environmental areas																Vegetation								Archaeological and cultural historic sites				
	Ground stability																Wildlife, including habitat and migration patterns								Employment				
	Permafrost																Birds, including habitat and migration patterns								Community wellness				
	Hydrology / Limnology																Aquatic species, incl. habitat and migration/spawning								Community infrastructure				
	Water quality																Wildlife protected areas								Human health				
	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																												
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	Archaeological and cultural historic sites																												
	Employment																												
	Community wellness																												
	Community infrastructure																												
	Human health																												
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Quarry/Borrow pit	-	M	-	-	-	-	-	-	-	-	-	M	M		M	M	M	-	-		-	P	M	M	M				
Offshore Infrastructure (port, break water, dock)	-	-	-	-	-	-	-	-	-	-	M	M		M	M	M	M	M		-	P	M	M	M					
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Offshore Infrastructure (port, break water, dock)	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	P	-		-	P	P	P	P					
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$$(P = \langle b \rangle \Delta \langle p \rangle \cap \langle a \rangle \langle b \rangle^c, N = \langle b \rangle \langle p \rangle \setminus \langle c \rangle \langle a \rangle \langle b \rangle^c \setminus \langle c \rangle \langle p \rangle \setminus \langle p \rangle \langle b \rangle \langle c \rangle \langle a \rangle \langle p \rangle^c \setminus, M = \langle b \rangle \langle p \rangle \setminus \langle c \rangle \langle a \rangle \langle b \rangle^c \setminus \langle c \rangle \langle p \rangle \setminus \langle p \rangle \langle b \rangle \langle c \rangle \langle a \rangle \langle b \rangle^c \setminus, U = \langle b \rangle \langle p \rangle \setminus \langle a \rangle \langle p \rangle \langle c \rangle \langle b \rangle)$$



List of Project Geometries

1	polygon	Quarry Site
2	polyline	Arctic Bay Harbour
3	polyline	Arctic Bay Harbour
4	polyline	Arctic Bay Harbour
5	polyline	Arctic Bay Harbour
6	polyline	Arctic Bay Harbour
7	polyline	Arctic Bay Harbour
8	polyline	Arctic Bay Harbour
9	polyline	Arctic Bay Harbour
10	polyline	Arctic Bay Harbour
11	polyline	Arctic Bay Harbour

12	polyline	Arctic Bay Harbour
13	polyline	Arctic Bay Harbour
14	polyline	Arctic Bay Harbour
15	polyline	Arctic Bay Harbour
16	polyline	Arctic Bay Harbour
17	polyline	Arctic Bay Harbour
18	polyline	Arctic Bay Harbour
19	polyline	Arctic Bay Harbour
20	point	Arctic Bay Small Craft Harbour