

PRELIMINARY SCREENING REPORT FORM

<p>PRELIMINARY SCREENER: Bonnie Bergsma</p> <p>REFERENCE / FILE NUMBER: S16L8-002</p> <p>APPLICANT: Department of Fisheries and Oceans Canada</p> <p>DATE: April 11, 2017/ revised January 15, 2018</p>	<p>EIRB REFERENCE NUMBER:</p> <p>TITLE: Regulatory Specialist</p> <p>ORGANIZATION: Sahtu Land and Water Board</p>
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Type of Development: Miscellaneous – Wharf Repair Norman Wells

- Type of Development:** (CHECK ALL THAT APPLY)
- New Development
 - Amend, EIRB Ref. #
 - Renew, EIRB Ref. #
 - Requires permit, licence or authorization
 - Does not require permit, licence or authorization

Project Summary: The project will be undertaken at the Canadian Coast Guard Steel Sheet Pile Wharf in Norman Wells, NT. During the construction phases of the Project the following activities are planned:
Dredging (February – March 2018)

- Mobilization of equipment and materials,
- Thickening the ice by flooding, starting 2 to 3 weeks prior to dredging;
- Dredging 15 m out beyond the existing footprint of the wharf to a depth of approximately 1-2 m,
- Transportation of dredging spoils off site to the town landfill

Wharf Repairs (Summer 2018)

- Mobilization of equipment and materials,
- Staging of equipment and materials,
- Excavation of materials from the dry environment of the existing wharf,
- Removal of the upper 2 m of sheet-piling of the wharf,
- Welding new sheet-piling,
- Concrete pouring within the wharf, and
- Backfilling the wharf.

Scope: The dredging program is currently scheduled to occur in January with construction of an access on the ice cover, followed by dredging to be completed in February-March 2018, working off the ice cover.

There are two main components of work for repairs in the summer of 2018: 1) The demolition and removal of the top 2 m of existing Steel Sheet Pile (SSP); and 2) Backfill and the installation of new SSP above the water line and new, full length SSP installed where required.

The area behind the sheet piling will be infilled with rock and surfaced. New capping channel, steel curb, will be installed in the wharf. There may also be a requirement to excavate more than 100 m³ of silt built up around the east and south face of the wharf.

Principal Activities (related to scoping)

(CHECK ALL THAT APPLY)

- Construction
- Installation
- Maintenance
- Exploration
- Industrial
- Recreation
- Decommissioning
- Abandonment
- Aerial

- Expansion
- Operation (re-suspension)
- Repair
- Water Intake
- Other:
- Municipal
- Quarry
- Linear / Corridor
- Sewage
- Harvesting
- Camp
- Scientific / Research
- Solid Waste

(DESCRIBE)

Principal Development Components (*related to scoping*)

(CHECK ALL THAT APPLY)

- Access Road
 - construction
 - abandonment/removal
 - modification e.g., widening, straightening
- Automobile, Aircraft or Vessel Movement
- Blasting
- Building
- Burning
- Burying
- Channeling
- Cut and Fill
- Cutting of Trees or Removal of Vegetation
- Dams and Impoundments
 - construction
 - abandonment/removal
 - modification
- Ditch Construction
- Drainage Alteration
- Drilling other than Geoscientific
- Ecological Surveys
- Excavation
- Explosive Storage
- Fuel Storage, drilling fluid, and hydraulic fracture fluid storage
- Topsoil, Overburden or Soil
 - fill
 - disposal
 - removal
 - storage
- Waste Management
 - disposal of hazardous waste
 - waste generation
 - drilling wastes and hydraulic flowback fluids
- Sewage
 - disposal of sewage
- Geoscientific Sampling
 - trenching
 - diamond drill
 - borehole core sampling
- Bulk soil sampling
- Gravel
- Hydrological Testing
- Site Restoration
 - fertilization
 - grubbing
 - planting/seeding
 - reforestation
 - scarify
 - spraying
 - recontouring
- Slashing and removal of vegetation
- Soil Testing
- Stream Crossing/Bridging
- Tunneling/Underground
- Water Intake
- Other

NTS Topographic Map Sheet Numbers

(LIST ALL THAT APPLY) O96E

NTS Map Sheet #s:

Latitude/Longitude and UTM System:

Minimum Latitude: 65°16' 15"N

Maximum Latitude:

Minimum Longitude: 126°46'30"W

Maximum Longitude:

(DEGREES, MINUTES, SECONDS, MAP SHEET)

Nearest Community and Water Body:

Norman Wells, Mackenzie River

Land Status (*consultation information*)

(CHECK ALL THAT APPLY)

Free Hold / Private Commissioner's Land Federal Crown Land Municipal Land

Transboundary Implications

(CHECK ALL THAT APPLY - IF KNOWN & APPLICABLE)

British Columbia Alberta Saskatchewan Yukon
 Nunavut Wood Buffalo National Park Inuvialuit Settlement Region

N/A

Type of Transboundary Implication: Impact / Effect Development

Public Concern _____
(DESCRIBE)

N/A

PHYSICAL - CHEMICAL EFFECTS

IMPACT

MITIGATION

1. Groundwater

- Water table alteration
- Water quality changes
- Infiltration changes
- Other:

N/A

IMPACT

MITIGATION

1. Surface Water

Water flow or level changes

Water quality changes

1. There is potential for deleterious substances to enter the Mackenzie River. Equipment operating near any water body must be free of external fluid leaks, grease and oil. Cleaning, fueling and servicing of equipment shall be conducted in a manner that will prevent the deposit of a deleterious substance into waters frequented by fish.
2. Appropriate precautions shall be taken to ensure excavated fill, waste material, debris, and all other construction materials do not enter Mackenzie River. All waste shall be deposited at an approved waste disposal site.
3. A silt curtain shall be installed around the Steel Sheet Piling prior to any work that requires in water activities and shall remain in place until the work is complete.
4. Implement a Spill Contingency Plan and ensure that all onsite personnel understand its contents.
5. Clearly identify spill kits on site and ensure they are stocked with materials sufficient to manage spills in both the aquatic and terrestrial

environments.

6. Fuels, oils, or other hazardous materials will be stored only in designated areas.
7. Vehicles and equipment will be maintained to minimize leaks. Regular inspections of hydraulic fuel systems on machinery will be completed on a routine basis; when detected, leaks will be repaired immediately.
8. Storage and disposal of liquid wastes and filters from equipment maintenance, and any residual material from spill clean-up will be contained in an environmentally safe manner and in accordance with any existing regulations.
9. Waste oils, fuels, and hazardous wastes (if any) will be handled in a safe manner. Staff will be required to transport, store, and handle all such substances as recommended by the suppliers and/or manufacturers and in compliance with applicable Federal, Provincial, and Municipal regulations.

Water quantity changes

Drainage pattern changes

1. Stockpile soil such that it maintains existing surface water drainage patterns to the extent possible.
2. Re-grade affected areas following construction to maintain/restore drainage patterns, as required.

Temperature

Wetland changes / loss

Other:

N/A

IMPACT

MITIGATION

2. Noise

Noise increase

Noise in/near water

1. Every reasonable effort shall be made to minimize the duration of activity and disturbance of the river.
2. Noise generating construction works will be avoided at night when possible.
3. Machinery will be maintained and in good working order with mufflers installed on equipment that is gas-powered.

Other:

N/A

IMPACT

MITIGATION

3. Land

Geologic structure changes

Soil contamination

Ground disturbance

Buffer zone loss

Soil compaction & settling

1. Limit the height of stockpiled materials.
2. Keep stockpiles and equipment within the immediate work areas to avoid compaction of soils outside of the project footprint.
3. Separate stockpiled materials based on soil types and horizons to reduce soil mixing.

Destabilization / erosion

1. Appropriate precautions shall be taken to avoid shoreline damage. All disturbed areas shall be restored to previous or better condition.
2. Work shall be conducted from the shore. No heavy equipment shall enter the Mackenzie River at any time.
3. Implement sediment and erosion management to on land activities to prevent the migration of soils outside the Project Site

Permafrost regime alteration

Other:

N/A

IMPACT

MITIGATION

4. Non Renewable Natural Resources

Resource depletion

Other

N/A

IMPACT

MITIGATION

5. Air / Climate / Atmosphere

Greenhouse gases

1. Vehicles and equipment will be properly maintained.
2. Construction vehicles and equipment will be maintained in good working

condition and inspected regularly.

3. Vehicle idling will be kept to a minimum.
4. Implement sediment and erosion management measures to prevent the migration of soils outside of the immediate work area.
5. Limit material stockpile heights.
6. Keep disturbed/exposed areas to a minimum

BIOLOGICAL ENVIRONMENT

IMPACT

MITIGATION

1. Vegetation

Species composition

1. Limit the extent of vegetation removal.

Species introduction

1. Equipment will be cleaned prior to use.
2. Vegetate exposed soils with native seed mixes when construction activities are complete and as soon as weather permits.

Toxin / heavy accumulation

Loss of timber along seismic lines

Damage to ground vegetation and permafrost

Increased fire hazard

N/A

IMPACT

MITIGATION

2. Wildlife & Fish

Effects on rare, threatened or endangered species

Fish population changes

1. The Mackenzie River is identified as a fish bearing stream. The project falls under project activities and criteria where DFO review is not required. If the project is to extend into the fish spawning season, beginning late September, DFO must notify the Fisheries Protection Branch two weeks in advance and request advice.
2. Equipment operating near any water body must be free of external fluid leaks, grease and oil. Cleaning, fueling and servicing of equipment shall be conducted in a manner that will prevent the deposit of a deleterious substance into waters frequented by fish.

- Waterfowl population
- Breeding disturbances
- Population reduction
- Species diversity change
- Health changes (identify)
- Behavioral changes (identify)
- Habitat changes / effects

1. Waterways to be kept free of excavated fill, waste material and debris.
2. Avoid removal of aquatic vegetation when possible.
3. Minimize the area of disturbance to the bed or banks of the Mackenzie River, to the extent practicable.
4. Follow agreed upon practices for working in or near water, such as those developed by DFO.

- Game species effects
- Toxins / heavy metals
- Forestry changes
- Agricultural changes
- Other:
- N/A

INTERACTING ENVIRONMENT

1. Habitat & Communities

- Predator-prey
- Wildlife habitat / ecosystem composition changes
- Reduction / removal of keystone or endangered species
- Removal of wildlife corridor or buffer zone
- Other: Canadian Important Bird Areas

1. Social & Economic

- Planning / zoning changes or conflicts

Rental house

Airport operations /
capacity changes

Human health hazard

1. All workers associated with this project and while on site, will be required to wear Personal Protection Equipment (PPE) at all times including hard hat, protective eyewear, gloves, steel-toed boots and protective4 clothing suitable for the weather.

Impair the recreational use
of water or aesthetic quality

Affect water use for other
purposes

Affect other land use
operations

Quality of life changes

Public concern

Other:

✓ N/A

1. Cultural & Heritage

Affects to historic property

Increased economic
pressure

Changes to or loss of
historic resources

Changes to or loss of
archeological resources

Increased pressure on
archeological resources

Effects to aboriginal
lifestyle

Other:

PRELIMINARY SCREENER / REFERRING BODY INFORMATION
(CHECK ALL THAT APPLY)

	RA or DRA	ADVISE	PERMIT REQUIRED
Federal			
ATOMIC ENERGY CONTROL BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CANADIAN HERITAGE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CANADIAN TRANSPORTATION AGENCY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ENVIRONMENT CANADA	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
FISHERIES & OCEANS	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
ABORIGINAL AFFAIRS AND NORTHERN DEVELOPMENT CANADA	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
INDUSTRY CANADA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NATIONAL DEFENSE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NATIONAL ENERGY BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NATURAL RESOURCES	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TRANSPORT CANADA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CANADIAN NUCLEAR SAFETY COMMISSION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Territorial			
MUNICIPAL & COMMUNITY AFFAIRS	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ENVIRONMENT & NATURAL RESOURCES	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
TRANSPORTATION	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
DEPARTMENT OF HEALTH AND SOCIAL SERVICES	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
PRINCE OF WALES NORTHERN HERITAGE CENTRE	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
INDUSTRY, TOURISM AND INVESTMENT	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
LANDS	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
Boards			
GWICH'IN LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SAHTU LAND & WATER BOARD	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
MACKENZIE VALLEY LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MACKENZIE VALLEY ENVIR. IMPACT REVIEW BOARD	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
SAHTU LAND USE PLANNING BOARD	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
SAHTU RENEWABLE RESOURCES BOARD	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
SAHTU HEALTH BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aboriginal / First Nation			
SAHTU SECRETARIAT INCORPORATED	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
NORMAN WELLS LAND CORPORATION	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
TULITA RENEWABLE RESOURCES COUNCIL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TULITA DISTRICT LAND CORPORATION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FORT NORMAN METIS LOCAL #60 LAND CORPORATION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TULITA LAND CORPORATION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NORMAN WELLS RENEWABLE RESOURCES COUNCIL	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
Local Government			
TULITA HAMLET INCORPORATED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TOWN OF NORMAN WELLS	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>

Communities

(IDENTIFY)

REASONS FOR DECISION

(LIST ALL REASONS AND SUPPORTING RATIONALES FOR PRELIMINARY SCREENING DECISION)

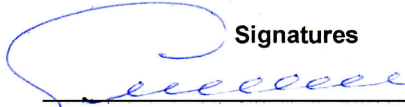
- Adequate time has been given to Reviewers to provide potential environmental impacts and mitigation measures on information as requested from the Applicant during the initial review period.
- The effects of the Program on the environment can take place in an environmentally responsible manner provided that mitigation measures outlined in the Program's Environmental Management Plan are followed.

-	PRELIMINARY SCREENING DECISION
○	Outside Local Government Boundaries
○	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
○	<i>Proceed with regulatory process and/or implementation.</i>
○	The development proposal might have public concern, <i>refer it to the EIRB.</i>
○	<i>Proceed with regulatory process and/or implementation.</i>
✓	Wholly within Local Government Boundaries
○	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the EIRB.</i>
✓	<i>Proceed with regulatory process and/or implementation.</i>
○	The development proposal might have public concern, <i>refer it to the EIRB.</i>
✓	<i>Proceed with regulatory process and/or implementation.</i>

Preliminary Screening Organization

Sahtu Land & Water Board _____

Signatures

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