

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</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.

Scope: There are two main components of work for repairs: 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)

- | | | |
|---|---|---|
| <input type="radio"/> Construction | <input type="radio"/> Exploration | <input type="radio"/> Decommissioning |
| <input type="radio"/> Installation | <input type="radio"/> Industrial | <input type="radio"/> Abandonment |
| <input type="radio"/> Maintenance | <input type="radio"/> Recreation | <input type="radio"/> Aerial |
| <input type="radio"/> Expansion | <input type="radio"/> Municipal | <input type="radio"/> Harvesting |
| <input type="radio"/> Operation (re-suspension) | <input type="radio"/> Quarry | <input type="radio"/> Camp |
| <input checked="" type="radio"/> Repair | <input type="radio"/> Linear / Corridor | <input type="radio"/> Scientific / Research |
| <input type="radio"/> Water Intake | <input type="radio"/> Sewage | <input type="radio"/> Solid Waste |
| <input type="radio"/> Other: | | |

(DESCRIBE)

Principal Development Components (related to scoping)

(CHECK ALL THAT APPLY)

- | | |
|------------------------------------|---|
| <input type="radio"/> Access Road | <input checked="" type="radio"/> Waste Management |
| <input type="radio"/> construction | <input type="radio"/> disposal of hazardous waste |

- 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 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

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.

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.

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.

- Water quantity changes
- Drainage pattern changes
- Temperature
- Wetland changes / loss
- Other:
- N/A

IMPACT

MITIGATION

2. Noise

- Noise increase
- Noise in/near water

Every reasonable effort shall be made to minimize the duration of activity and disturbance of the river.

- Other:
- N/A

IMPACT

MITIGATION

3. Land

- Geologic structure changes
- Soil contamination
- Ground disturbance
- Buffer zone loss
- Soil compaction & settling
- Destabilization / erosion

Appropriate precautions shall be taken to avoid shoreline damage. All disturbed areas shall be restored to previous or better condition.

Work shall be conducted from the shore. No heavy equipment shall enter the Mackenzie River at any time.

- 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

BIOLOGICAL ENVIRONMENT

IMPACT

MITIGATION

1. Vegetation

- Species composition
- Species introduction
- Toxin / heavy accumulation
- Loss of timber along seismic lines
- Damage to ground vegetation and permafrost
- Increased fire hazard
- N/A

Equipment will be cleaned prior to use.

IMPACT

MITIGATION

2. Wildlife & Fish

- Effects on rare, threatened or endangered species

- Fish population changes

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.

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

Waterways to be kept free of excavated fill, waste material and debris.

- 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

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 type="radio"/>
FISHERIES & OCEANS	<input type="radio"/>	✓	<input type="radio"/>
ABORIGINAL AFFAIRS AND NORTHERN DEVELOPMENT CANADA	<input type="radio"/>	✓	<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 type="radio"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ENVIRONMENT & NATURAL RESOURCES	<input type="radio"/>	✓	<input type="radio"/>
TRANSPORTATION	<input type="radio"/>	✓	<input type="radio"/>
DEPARTMENT OF HEALTH AND SOCIAL SERVICES	<input type="radio"/>	✓	<input type="radio"/>
PRINCE OF WALES NORTHERN HERITAGE CENTRE	<input type="radio"/>	✓	<input type="radio"/>
INDUSTRY, TOURISM AND INVESTMENT	<input type="radio"/>	✓	<input type="radio"/>
LANDS	<input type="radio"/>	✓	<input type="radio"/>
Boards			
GWICH'IN LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SAHTU LAND & WATER BOARD	✓	<input type="radio"/>	✓
MACKENZIE VALLEY LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MACKENZIE VALLEY ENVIR. IMPACT REVIEW BOARD	<input type="radio"/>	✓	<input type="radio"/>
SAHTU LAND USE PLANNING BOARD	<input type="radio"/>	✓	<input type="radio"/>
SAHTU RENEWABLE RESOURCES BOARD	<input type="radio"/>	✓	<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 type="radio"/>
NORMAN WELLS LAND CORPORATION	<input type="radio"/>	✓	<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 type="radio"/>
Local Government			
TULITA HAMLET INCORPORATED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TOWN OF NORMAN WELLS	<input type="radio"/>	✓	<input type="radio"/>

Communities

(IDENTIFY)

REASONS FOR DECISION

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

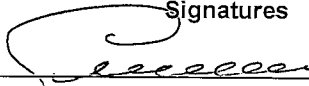
- Adequate time has been given to Reviewers to provide potential environmental impacts and mitigation measures on information as requested from the Applicant during the initial review period.
- The effects of the Program on the environment can take place in an environmentally responsible manner provided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