

Geotechnical and Environmental Baseline Studies for Iqaluit Port Development

Wildlife Mitigation and Monitoring Plan

15-Jul-16

4321 Still Creek Drive
Burnaby BC V5C 6S7
Canada

307071-01123-00-PM-PLN-0002

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Project No: 307071-01123-00-PM-PLN-0002 – Geotechnical and Environmental Baseline Studies for Iqaluit Port Development: Wildlife Mitigation and Monitoring Plan

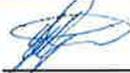
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1 Introduction

1.1 Purpose and Scope

The purpose of the Wildlife Mitigation and Monitoring Plan (WMMP) is to outline the environmental management requirements regarding terrestrial and marine wildlife during field-based geotechnical and environmental baseline studies (the Project). This plan is a working document and will be updated, as required.

The primary objectives of this WMMP are the following:

- Identify the regulatory requirements applicable to geotechnical and environmental baseline studies with respect to wildlife
- Identify study activities and potential environmental effects associated with terrestrial and marine wildlife
- Identify measures and management requirements/strategies to avoid, manage or mitigate the potential environmental effects associated with wildlife during the studies
- Act as a wildlife reference document for project personnel when planning or conducting the studies

The WMMP is organized as follows:

- Section 1 – outlines the purpose, scope, and objectives of the WMMP, and presents an overview of the Project, including the environmental and wildlife setting
- Section 2 – presents summaries of environmental management plans related to the WMMP
- Section 3 – outlines regulatory requirements and best management practices relevant to wildlife management
- Section 4 – describes potential environmental impacts on wildlife and wildlife habitat and methods to mitigate such impacts
- Section 5 – outlines monitoring, reporting and record keeping procedures to be implemented
- Section 6 – presents training procedures and communication protocols to be implemented

Project field staff will be required to review this WMMP during the course of site orientation in order to inform staff of expectations for wildlife mitigation and monitoring.

1.2 Project Overview

Geotechnical and environmental baseline studies are required to support the design of a proposed deep water port and upgrades to a municipal breakwater and boat ramp in Iqaluit, Nunavut. These studies will support engineering design, future preparation of an Environmental Assessment (EA), as per Article 12, Part 4 of the Nunavut Land Claims Agreement, and post-EA permitting.



Site coordinates for the municipal breakwater and boat ramp are approximately 68°30'41.45" W and 63°44'24.67" N (Appendix 1). The site coordinates for the deepwater port are approximately 68°31'29.07" W and 63°43'26.82" N.

Geotechnical and environmental baseline studies to be conducted include the following:

- Water and sediment quality
- Oceanography
- Fish and fish habitat
- Migratory and marine birds
- Terrestrial vegetation and rare plants
- Terrestrial landforms, soil and permafrost
- Traditional Knowledge (Inuit Qaujimagatuqangit)
- Geotechnical investigations

The geotechnical and environmental baseline studies will focus on the areas surrounding the proposed deep water port site, municipal breakwater and boat ramp. These field studies will be performed on federal Crown land, Municipal land, and Commissioner's land.

The proponent's contact information is as follows:

Paul Mulak, PMP, M. Arch.
Director, Capital Projects
Community & Government Services
Government of Nunavut
P.O. Box 1000
Iqaluit, NU
X0A 0H0 Canada

Email: pmulak@gov.nu.ca
ph: (867) 975-5414
fax: (867) 975-5457

1.3 Existing Site Conditions

The project site consists of the marine environment, natural tundra habitat, and rocky shoreline.

1.4 Terrestrial and Marine Wildlife

A list of wildlife with range overlapping the South Baffin Region and their conservation status is presented in Table 1.



Species	COSEWIC ¹	SARA ²	Species	COSEWIC ¹	SARA ²
Arctic Fox	-	-	Killer Whale	-	-
American Pipit	-	-	King Eider	-	-
Arctic Hare	-	-	Long-finned Pilot Whale	-	-
Arctic Tern	-	-	Long-tailed Duck	-	-
Bearded Seal	-	-	Narwhal	-	-
Beluga Whale	Special Concern	No Schedule	Northern Collard Lemming	-	-
Black Guillemot	-	-	Northern Fulmar	-	-
Bowhead Whale	-	-	Parasitic Jaeger	-	-
Brown Lemming	-	-	Polar Bear	Special Concern	Schedule 1
Caribou	-	-	Purple Sandpiper	-	-
Common Eider	-	-	Red Fox	-	-
Common Loon	-	-	Red-necked Phalarope	Special Concern	No Schedule
Common Raven	-	-	Ringed Seal	-	-
Glaucous Gull	-	-	Rough-legged Hawk	Not at Risk	-
Gyrfalcon	Not at Risk	-	Sandhill Crane	-	-
Harbour Porpoise	-	-	Semipalmated Plover	-	-
Harbour Seal	-	-	Semipalmated Sandpiper	-	-
Harlequin Duck	Special Concern	Schedule 1	Short-eared Owl	Special Concern	Schedule 1
Harp Seal			Snowy Owl	Not at Risk	-
Horned Lark			Atlantic Walrus	Special Concern	No Schedule
Humpback Whale			Wolverine	Special Concern	No Schedule
Iceland Gull					

Table 1 Marine and Terrestrial Wildlife with Ranges Overlapping Project Area

Note: Species list was developed based on Reid, F. 2006. Peterson Field Guide to Mammals of North America 4th Edition. Houghton MifflinHarcourt, New York, New York. Pp. 608.

1. COSEWIC (2016) status. Endangered: species facing imminent extirpation or extinction. Threatened: species likely to become endangered if limiting factors are not reversed. Species Concern: species is of special concern because of characteristics that make it particularly sensitive to human activities or natural events. Not at Risk: species that has been evaluated and found not to be at risk.
2. Species under Schedule 1 of SARA (2012) are legally protected under the Species at Risk Act
3. Marine and Terrestrial Wildlife with Ranges Overlapping Project Area



2 Related Environmental Management Plans

This WMMP is one of four Environmental Management Plans (EMPs) to be referred to during the geotechnical and environmental baseline studies. The other EMPs include a Waste Management Plan, Spill Prevention Plan, and Abandonment and Restoration Plan. These plans should be read in conjunction with the WMMP.

2.1 Waste Management Plan

A Waste Management Plan (WMP) has been prepared to identify, manage, and minimize the waste generated during geotechnical and environmental baseline studies. The WMP includes the procedures to reduce or eliminate potential impacts associated with the baseline studies.

2.2 Spill Prevention Plan

A Spill Prevention Plan has been prepared to document and describe the systems and procedures for handling, storing, and disposing of hazardous waste generated during the geotechnical and environmental baseline studies. This plan also presents procedures for managing spills of hazardous materials. Spills, particularly of hazardous materials, can result in harm to field personnel and to the local environment.

2.3 Abandonment and Restoration Plan

An Abandonment and Restoration Plan has been prepared to describe the procedures to restore the Project site on completion of the geotechnical and environmental baseline studies.



3 Regulatory Requirements and Best Management Practices

3.1 Federal Legislation

Through Environment and Climate Change Canada, the federal government's mandate is to preserve and enhance the quality of the natural environment, conserve Canada's natural resources, conserve and protect Canada's water resources, coordinate policies and programs, and address environmental issues on a national scale. Indigenous and Northern Affairs Canada, through the *Territorial Lands Act*, is responsible for the management of activities on federal Crown land in Nunavut. Additional federal acts that apply to wildlife management in Nunavut include:

- *Fisheries Act*
- *Migratory Birds Convention Act*
- *Species at Risk Act*

3.2 Territorial Legislation

The site is located in the territory of Nunavut. One of the most important pieces of legislation in regards to wildlife is the *Wildlife Act*. The purpose of the Wildlife Act is to establish a comprehensive regime for the management of wildlife and habitat in Nunavut, including the conservation, protection and recovery of species at risk. Jurisdiction over several territorial matters, including wildlife management, was granted to the territory by the Canadian government under the *Nunavut Land Claims Agreement* of 1993. Under this agreement, Institutions of Public Government (IPGs), including the Nunavut Wildlife Management Board, Nunavut Impact Review Board (NIRB) and Nunavut Water Board (NWB) were created to manage wildlife and regulate activities pertaining to use or disturbance of the natural environment.

Key pieces of territorial legislation also exist that provide the framework for the management of wildlife Nunavut. These include the following:

- *Nunavut Lands Claims Agreement*
- *Environmental Protection Act*
- *Wildlife Act*



3.3 Best Management Practices and Guidelines

Relevant Best Management Practices (BMPs) for wildlife management include the following:

- Migratory Birds Environmental Assessment Guideline – Government of Canada
- Guidelines to Avoid Disturbance to Seabird and Waterbird Colonies in Canada – Environment and Climate Change Canada
- Avoidance of Detrimental Effects to Migratory Birds (Incidental Take) – Environment and Climate Change Canada

3.4 Permits and Authorizations

The geotechnical and environmental baseline studies will require several permits and/or authorizations before proceeding. These include a variety of federal and territorial permits to allow for the collection of sediments, deployment of instruments, and land access.

A list of applicable federal permits/approvals is provided below:

- *Fisheries Act* Self-Assessment and, if required, a Request for Review (geotechnical drilling)
- *Fisheries Act* Licence to Fish for Scientific Purposes (invertebrate collection and retention)
- *Navigation Protection Act* Notice of Works (if required; barge placement during open water period)
- Indigenous and Northern Affairs Canada Class A land use permit (land use of Crown Land)

A list of applicable territorial and IPG permits/approvals is provided below:

- Nunavut Research Institute project registration
- Nunavut Planning Commission Review/Determination
- NIRB Screening/Decision
- NWB Type B Water Licence or Authorization (water use and waste disposal for geotechnical drilling program)



4 Potential Environmental Impacts and Mitigation Measures

4.1 Environmental Impacts

There is no intent to capture or handle wildlife during the field studies. However, the studies present potential impacts to local wildlife and habitat, including the following:

- Increased risk of predation due to presence of field staff (e.g. flushing bird off of nest)
- Pollution of the local terrestrial and marine environments
- Attraction of local wildlife
- Production of odours that may attract wildlife
- Risk of harm to wildlife due to unintended interaction

4.2 Mitigation Measures

4.2.1 General

The following measures will be implemented by field personnel to manage and mitigate impacts to local wildlife and habitat:

- Have a qualified wildlife monitor onsite
- Attend site orientation
- Participate in wildlife awareness training, including bear safety training
- Follow all government recommended setback distances for terrestrial and marine wildlife species
- Properly maintain equipment and perform regular inspections before each shift
- Reduce vehicle speeds to 30 km/h in identified high risk wildlife areas
- Ensure vehicle passengers assist driver by actively looking for wildlife along roadways
- Avoid driving during dawn and dusk hours where practical
- Cover waste material bins to prevent scavenging by wildlife and feral animals, as well as to control odour
- Store all waste in a plastic bag while conducting marine work to prevent waste being released into the water
- Schedule regular waste removal and remove all waste from the deck of the boat prior to moving
- Do not feed terrestrial or marine wildlife
- Pack out what you pack in



- Have approved permits on site and follow stipulations in permits
- Hydrocarbon waste (i.e. engine oils and lubricants) will be stored in separate leak-proof sealed containers

4.2.2 Geotechnical Studies

Geotechnical studies will include vibrocore and borehole drilling. Drilling activities will be conducted from an operational platform that will be placed over top of the selected sampling location. Drilling is planned to occur on land (quarry) and, depending on season, on the ice and / or on a barge (subtidal sites). Vibrocores will be undertaken in intertidal areas.

Potential impacts to wildlife associated with the geotechnical studies include:

- Increased noise
- Risk of spills
- Disruption of life cycles of wildlife
- Dust generation
- Wildlife/vehicle/vessel collisions
- Waste generation, including hazardous waste

The following mitigation measures will be implemented during the geotechnical investigation:

- Environmental Monitoring of the drilling operation will be conducted by a Qualified Environment Professional (QEP);
 - The environmental monitor will conduct continued visual monitoring around the drilling barge for signs of stress, injury or mortality of fish or marine mammals. If observed, drilling operations will be suspended until the QEP authorizes a restart. Any such incidents will be reported to Fisheries and Oceans Canada; and
 - Visual surveys for the presence of marine mammals will be conducted prior to commencement of drilling activities; if marine mammals are observed in the vicinity of the drilling barge, drilling activities will not commence until they have exited the area.
- Noise reduction technologies (e.g. sound blankets) will be installed on rigs, if possible
- Waste will be stored in labelled containers and appropriately segregated based on material

4.2.3 Environmental Baseline Studies

Environmental baseline studies will occur largely on foot in terrestrial and the intertidal marine environments. The marine water quality and sediment baseline study will require the collection of water and sediment samples from a vessel. Water samples will be collected using a grab sample (i.e. Niskin or Van Dorn bottle) and sediment samples will be collected using a clamshell grab (i.e. Ponar or Van Veen).



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Potential impacts to wildlife associated with the environmental baseline studies include the following:

- Chance encounters and habituation of dangerous wildlife (e.g. polar bear) which may lead the animal being put down
- Nest abandonment due to survey presence
- Accidental spillage of preservatives, decontamination agents, and fuels

The following mitigation measures will be implemented during the environmental baseline studies:

- Limit time spent near sensitive wildlife features (e.g. nest) to less than 3 minutes
- Solid waste from sampling equipment (boxes and wrappers) will be stored in appropriate containers (i.e. garbage bags or boxes) and disposed of at an approved municipal waste management facility
- Sampling equipment will be decontaminated before travelling to study sites to eliminate the need for cleaning at site
- Reduce vessel speeds if marine wildlife are observed nearby



5 Monitoring, Reporting, and Record Keeping

5.1 Monitoring

During the geotechnical and environmental baseline studies, monitoring will reduce the risk of adverse effects on terrestrial and marine wildlife populations and maintain compliance with regulatory requirements. The parameters for monitoring, by wildlife monitors, with respect to studies for both terrestrial and marine wildlife include:

- Recording locations of wildlife species with particular attention to species at risk on wildlife sighting form (Appendix 2)
- Reporting and documenting the location of dangerous wildlife (e.g. predators, species that are carriers of the rabies virus)
- Reporting any observed dead or injured wildlife to the regional government wildlife biologist

All field staff that incidentally observes terrestrial or marine wildlife should also record the observation on the wildlife sighting form (Appendix 2).

5.2 Reporting

Monitoring data will be recorded on a wildlife sighting card (Appendix 2) and will be entered and maintained in a database. Terrestrial and marine wildlife that act aggressively or show signs of habituation will be reported to the regional government wildlife biologist and/or local conservation officers.

5.3 Record Keeping

Observations, field notes, checklists, inspection reports, including any non-compliances or non-conformances and corrective action plans are to be maintained. Records shall be legible, identifiable, and traceable. Records may be recorded in hard copy as long as an electronic copy is also kept.



6 Training, Competency, and Communications

6.1 Training and Competency

Prior to the commencement of the studies, site personnel will attend a site orientation. Specific training in wildlife management will be required for the avoidance, management, and mitigation of potential wildlife impacts. Such training would provide:

- Knowledge about the applicable wildlife legislation and regulations
- Knowledge about animal/bird behaviour
- Knowledge about terrestrial and marine wildlife setback distances
- Knowledge about wildlife deterrents and firearms
- Knowledge about Restricted Activity Periods

Additional environmental and/or safety training will be provided depending on the requirements of the individual's specific assignment and the work to be performed. Environmental and safety topics, including wildlife mitigation and management, will be discussed regularly at Health, Safety and Environment meetings, tailgate meetings, kick-off meetings, and work plan development. It is the responsibility of the field supervisor to provide the field team with this information for wildlife management matters. All records of personnel training will be maintained.

6.2 Communications

Field personnel will communicate directly with the field supervisor who in-turn will communicate with the Project Manager. If required, the Project Manager will communicate incidents/issues/concerns to the relevant regulatory bodies.



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Appendix 1: Study Area





FILE LOCATION: U:\YVR\307071\01123 GoN Iqaluit\10_Eng\16_Geomatics\01_Mxd\2016-05-10_Iqaluit_Port_Development_Site_Plan.mxd

- Legend**
- Study Area
 - Shoreline
 - Property Lot
 - Road
 - Creek



Note:
Coordinate System: NAD 1983 UTM Zone 19N
Vertical Elevation Refers to Chart Datum

B SHEET	SCALE: 1:15000	CUSTOMER:
Oneway to zero harm		
DATE:	15/06/2016	
DRAWN:	YM	
EDITED:	KR	
APPROVED:	MC	
<small>*This drawing is prepared for the use of our customer as specified in the accompanying report. WorleyParsons Canada Ltd. assumes no liability to any other party for any representations contained in this drawing.*</small>		

 WorleyParsons resources & energy		
IQALUIT PORT DEVELOPMENT STUDY AREA		
WORLEYPARSONS PROJECT No: 307071-01123	FIG No: 1	REV 0



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Appendix 2: Wildlife Sighting Field Form



WILDLIFE SIGHTING CARD



Date:	Time:
Observer Name(s):	
Employer/Company:	
Observer Email or Phone No. (optional):	
Location of Observation (GPS coordinates or Legal Land Description preferred):	
Property Type: <input type="checkbox"/> Public / Lease <input type="checkbox"/> Private <input type="checkbox"/> Unknown	
Habitat: <input type="checkbox"/> Forested <input type="checkbox"/> Grassland / Pasture <input type="checkbox"/> Agriculture <input type="checkbox"/> River / Stream <input type="checkbox"/> Wetland <input type="checkbox"/> Right-of-Way / Seismic <input type="checkbox"/> Urban / Industrial <input type="checkbox"/> Other	
<i>Wildlife Sighting – any wildlife species observed (e.g., Deer, Moose, Wolf, Coyote, Lynx, Black Bear), including birds and birds' nests (e.g., hawk or owl nest), or dens sites.</i>	
Description of Wildlife Sighting:	

WILDLIFE SIGHTING CARD



Date:	Time:
Observer Name(s):	
Employer/Company:	
Observer Email or Phone No. (optional):	
Location of Observation (GPS coordinates or Legal Land Description preferred):	
Property Type: <input type="checkbox"/> Public / Lease <input type="checkbox"/> Private <input type="checkbox"/> Unknown	
Habitat: <input type="checkbox"/> Forested <input type="checkbox"/> Grassland / Pasture <input type="checkbox"/> Agriculture <input type="checkbox"/> River / Stream <input type="checkbox"/> Wetland <input type="checkbox"/> Right-of-Way / Seismic <input type="checkbox"/> Urban / Industrial <input type="checkbox"/> Other	
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Description of Wildlife Sighting:	

WILDLIFE SIGHTING CARD

Class:				
<input type="checkbox"/> Large Mammal	<input type="checkbox"/> Small Mammal	<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Song Bird	
<input type="checkbox"/> Hawk	<input type="checkbox"/> Owl	<input type="checkbox"/> Bird-Other	<input type="checkbox"/> Fish	
<input type="checkbox"/> Amphibian	<input type="checkbox"/> Reptile	<input type="checkbox"/> Arthropod	<input type="checkbox"/> Other	
Observation Method:				
<input type="checkbox"/> Sighted	<input type="checkbox"/> Heard	<input type="checkbox"/> Tracks		
<input type="checkbox"/> Scat	<input type="checkbox"/> Other			
Number Adult(s): _____	Number Juvenile(s): _____	Number Unknown: _____	Total No. Individuals: _____	<input type="checkbox"/> N/A
Other Comments / Description of Animal Behaviour:				
Activity:				
<input type="checkbox"/> Feeding	<input type="checkbox"/> Nesting	<input type="checkbox"/> Vocalizing	<input type="checkbox"/> Breeding	
<input type="checkbox"/> Travelling / swimming	<input type="checkbox"/> Resting	<input type="checkbox"/> Other	<input type="checkbox"/> Not Applicable	
State:				
<input type="checkbox"/> Alive & Well	<input type="checkbox"/> Injured	<input type="checkbox"/> Dead	<input type="checkbox"/> Not Applicable	
Picture Taken? <input type="checkbox"/> Yes* <input type="checkbox"/> No <i>*Please send picture(s) to wildlife coordinator</i>				

WILDLIFE SIGHTING CARD

Class:				
<input type="checkbox"/> Large Mammal	<input type="checkbox"/> Small Mammal	<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Song Bird	
<input type="checkbox"/> Hawk	<input type="checkbox"/> Owl	<input type="checkbox"/> Bird-Other	<input type="checkbox"/> Fish	
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