



AlecSandra Macdonald
Regulatory Specialist
Gwich'in Land and Water Board
105 Veterans Way, P.O. Box 2018
Inuvik, NT. X0E 0T0

Dear Ms. Macdonald

James Creek Maintenance Camp Land Use Permit G20H006 Renewal

The Government of the Northwest Territories' Department of Infrastructure (GNWT-INF) is pleased to submit a Land Use Permit Application for the renewal of the James Creek Maintenance Camp located at Km 14.2 on the NWT Dempster Highway #8.

It is believed that preliminary screening is not required as the location has already been screened. Enclosed please find the following documents:

1. Land Use Permit Application and Additional Information
2. Maps and Images
3. Spill Contingency Plan
4. Waste Management Plan
5. Engagement Plan
6. Engagement Record

If you have any questions please contact Alexis Campbell via email at alexis.campbell@gov.nt.ca or by phone at 867-767-9083 ext 31055.

Sincerely,



July 11, 2023

Shah Alam
Project Officer
Beaufort Delta Regional Office
Department of Infrastructure

Land and Water Boards of the Mackenzie Valley



LAND USE PERMIT APPLICATION FORM

Subsection 19(2) and Schedule 2 of the [Mackenzie Valley Land Use Regulations](#)

Use an "X" to indicate which Board the Application is being made to:	Mackenzie Valley Land and Water Board:		Shtu Land and Water Board:	
	Wek'èezhii Land and Water Board:		Gwich'in Land and Water Board:	X

To complete this Form, please refer to the MVLWB [Guide to the Land Use Permitting Process](#) (Guide) and fill in the grey fields; attach additional pages, as necessary. Indicate N/A in the grey fields for Items or parts of Items that are not applicable. An application package checklist is provided in the Guide. Review the following MVLWB guidance for formatting your Application Package:

- [Document Submission Standards](#)
- [Standard Outline for Management Plans](#)

If applicable, provide the existing or current Land Use Permit file number:	G20H006		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:		
	Water Licence – in a federal area:		

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	SHAH ALAM		
Position:	Project Officer/ Engineer		
Company Name:	Department of Infrastructure, GNWT		
Mailing Address:	3 rd floor, GNWT Multiuse Building, Bag service # 1, 106 Veteran's Way,		
Community:	Inuvik	Telephone:	867-678-8096 extension 33622
Prov/Terr:	NT	Email:	Shah_Alam@gov.nt.ca
Postal Code:	X0E 0T0	Other:	Allan_Hamilton@gov.nt.ca

2. NAME AND CONTACT INFORMATION – APPLICANT’S HEAD OFFICE

Include a Certificate of Corporate Registration from the Government of the Northwest Territories in your Application Package.

Use an “X” to indicate this information is the same as Item 1 above:			X
Name:			
Position:			
Company Name:			
Mailing Address:			
Community:			
Prov/Terr:		Telephone:	
Postal Code:		Email:	
Field Supervisor:		Other:	

3. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

Include relevant names, responsibilities, and contact information. An additional table should be added for each contractor and sub-contractor.

Name:	Leslie J. Blake		
Position:	Director		
Company Name:	LJ’s Septic Services & Contracting Ltd		
Mailing Address:	4 Industrial Road, PO Box 151		
Community:	Fort McPherson	Telephone:	867-952-2901
Prov/Terr:	NT	Email:	lcontracting@hotmail.com
Postal Code:	X0E 0J0	Other:	

	Use an “X” to indicate that contractor and/or subcontractor information is not available at this time.
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4. LOCATION OF ACTIVITIES

Use the grey fields below to provide or reference the following information:

Traditional Place Name: James Creek

Maps and Geographic Information System (GIS) Data: Include a map in your Application Package identifying local geographic features, watercourses and water sources, project structures, and location(s) of any proposed waste deposits. Provide geographic coordinates (latitude and longitude) of project features, and the maximum and minimum project boundary in degrees, minutes, seconds, or decimal degrees. Include GIS data in your Application Package, if applicable. Refer to the MVLWB [Geospatial Data Submission Standards](#) for providing geographic information.

Minimum latitude:	67° 06’30”N	Maximum latitude:	135°59’53” W
Minimum longitude:	N/A	Maximum longitude:	N/A

NTS Map Sheet No.: Provide the map sheet number: 106M04

Land Types: Use an “X” to indicate the type(s) of the land on which the activities are proposed:

Free Hold/ Private:	<input type="checkbox"/>	Commissioner’s/ Territorial Lands:	<input checked="" type="checkbox"/>	Federal Land:	<input type="checkbox"/>	Municipal Land:	<input type="checkbox"/>
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5. ELIGIBILITY

Refer to section 18 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which one applies:

18(a)(i):		18(a)(ii):		18(a)(iii):		18(b):	X
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6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact Indigenous, federal, and territorial governments, and other parties to ensure all appropriate rights, authorizations, permissions, dispositions, and contracts have been obtained or are in the process of being obtained (e.g., mineral exploration rights, quarry permits, licences of occupation, leases, access agreements and authorizations, etc.). List and provide confirmation of other authorizations that relate to the proposed activities; reference these in your Application Package (e.g., rights, permits, licences, etc.).

This location is administered through the transfer of Inter-Territorial Roads Program from the Government of Canada to the Government of Northwest Territories under the Transfer Agreement - May 08, 1990, for the specific purpose of the maintenance and operation of Dempster Highway-8. Access to the location has been used and maintained in perpetuity.

7. PERMIT TYPE AND CRITERIA

Refer to sections 4 and 5 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which permitting criteria apply:

Type A				Type B				Type C	
4(a)(i):		4(b)(i):		5(a)(i):		5(b)(i):		(SLWB and WLWB only):	
4(a)(ii):		4(b)(ii):	X	5(a)(ii):		5(b)(ii):			
4(a)(iii):		4(b)(iii):	X	5(a)(iii):					
4(a)(iv):		4(b)(iv):		5(a)(iv):					
4(a)(v):				5(a)(v):					
				5(a)(vi):					

8. PROJECT DESCRIPTION

Include a project description in your Application Package, or for small-scale projects, describe the proposed activities in the grey field provided below. Include the name and type (e.g., lake, river) of water source(s), and the purpose and quantity of water to be used (rates, volumes (m³/day)). Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

The Department of infrastructure is continuing operation and maintenance of Dempster Highway that require safe parking place for equipment and service vehicles and operators. James Creek Camp facility will be used for equipment and useable fuel storage during operation period. The location is suitable for access from Dempster Highway with short notice when emergency response needed. The camp is located at Km 14.2 on NWT Highway 8.

James Creek Camp facility will be used for equipment, useable fuel storage and staff lodging (1-2 people) during operation period. Equipment and service vehicles mainly include pick-up trucks, 2 Graders, 1 Loader, 1 snowblower, 1 CAT Dozer, 1 Plow truck, 2 End Dumps, 2 Belly Dumps and Tractor Truck.

The details description of the site, location, activities, water uses and waste water management is attached. Please Refer to the attached Description.

9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale,

The camp can hold up to 10 maintenance worker in two eight-bedroom accommodation trailers, or at times other guests overnight in these accommodations. It is expected that there will be 1 person on site for work and maintenance from May- September, and from October – April 2 person per day. Anticipated number of person days is 510.

any variations in the number of people that may be on site over the life of the project.

10. ROADS AND ACCESSES

Provide detailed information about the construction, location, and decommissioning of any roads and accesses.

Use an "X" to indicate if this is to be a pioneered road or access:	Yes		Use an "X" to indicate if the route has been laid out or ground-truthed:	Yes	
	No	X		No	X

This location is administered through the Transfer of Inter-Territorial Roads program from the Government of Canada to the Government of Northwest Territories under the Transfer Agreement - May 08, 1990, for the specific purpose of the maintenance and operation of Dempster Highway-8. There is direct access to the location from highway 8 that has been used and maintained.

11. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide or reference the following information:

Waste Management Plan: Include a Waste Management Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed waste management activities in the grey fields provided below. A template for the Plan can be found in the MVLWB [Guidelines for Developing a Waste Management Plan](#).

Waste Type	Management Method(s)
Garbage:	Hauled to the municipal facility
Sewage (Sanitary and greywater):	Hauled to municipal facility by vacuum truck

Brush and trees:	N/A
Overburden (Organic soils, waste material, etc.):	N/A
Other (describe):	N/A

Off-site Disposal: If waste is proposed to be disposed of off-site within the NWT, written confirmation (e.g., an email, letter, etc.) from the facility/facilities indicating they will accept the waste is required. Include it/these in your Application Package. Please note this information will be required by the Board prior to commencement of activities.

12. EQUIPMENT

Identify the types of equipment proposed to be used.

Number	Type/Description	Size (weight in tonnes)	Proposed use
D8, D7, D8	Bulldozer	20,500 kg	Snow plowing and earth works
CAT 14G, 140	Grader	33,356 kgs	Highway blading
3 tonne	Pick up trucks	5266 kg	transportation
16 m3	Dump truck	26, 500 kg	Materials hauling
966 F	Loader	10,000 Kg	Loading materials
CAT 322L	Excavator/ Snow blower	25,000 Kg	Snow blow

13. FUEL

Identify all fuel types proposed to be used.

Type of Fuel	Number of containers	Capacity of containers (e.g., litres, pounds)	Type of container (e.g., barrel, tank, tidy-tank)	Proposed storage or staging location(s)
Diesel:	1	90,000 L	Tidy tank	James Creek Camp
Gasoline:	Various	20 L container	Jerry cans	James Creek Camp
Aviation Fuel:	N/A			
Propane:	N/A			
Other: (describe)				

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fuel is delivered by tanker truck to on-site fuel tanks and pumps into tanks via on-board pump. Fuel from tank dispensed with electrical pump to equipment and vehicles

15. SPILL CONTINGENCY PLAN

Include a Spill Contingency Plan in your Application Package, if applicable, or for small-scale projects, provide relevant details in the grey field provided below. An example of this Plan can be found in the [INAC Guidelines for Spill Contingency Planning](#).

Please see attached file. There is no change from previous land use permit plan.

16. PROPOSED PROJECT SCHEDULE AND TERM

Indicate the proposed project start and completion dates and the time of year the project activities are planned to occur. Describe any anticipated temporary closure(s) or seasonal shutdowns. Indicate the term requested.

Start Date:	August 05, 2023	Completion Date:	August 4, 2028
Term of Permit Requested:	5 years effecting from August 05, 2023		

17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

If the proposed project, or parts of the proposed project, may be exempt from preliminary screening, describe the rationale for the exemption in the grey field below. Include the date of the most recent screening, and/or the environmental assessment or impact review number.

The proposed project is exempt from preliminary screening as it has been previously issued under G20H006 and there is no change in scope

Unless the project could be exempt from preliminary screening, using the Impact-Mitigation Table below, or the more detailed Table in Appendix D of the [Guide](#), identify all potential impacts and possible mitigations that are relevant to the proposed project, and indicate whether any of the mitigation measures have been developed as a result of input from affected parties. Possible potential impacts are listed below; however, these lists are not exhaustive and may not apply to all projects. All information provided should reflect the size, scale, and nature of the proposed project. Cumulative impacts and climate change must be considered. Attach additional pages if needed.

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
ABIOTIC COMPONENTS		
Land: N/A		
Soil contamination		
Soil compaction		
Destabilization/erosion		
Change in soil structure		
Inability to support vegetation		
Other		
Water		
Groundwater: N/A		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Permafrost: N/A		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		
Drainage pattern changes		
Temperature changes		
Changes in water quality		
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases		
Other		
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation		
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species		
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation		
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests		
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality		
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging		
Effects on population abundance		
Change in species diversity		
Effects on wildlife health (toxins, metals, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Human-wildlife conflicts		

Potential Impacts <i>Use an "X" to indicate which apply</i>	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Other	X
Aquatic Habitat	
Breeding disturbances	
Change in species diversity	
Effects on health (toxins, metals, sediment, etc.)	
Changes to migratory movement patterns	
Changes to predator-prey relationships	
Effects on population abundance	
Change in species diversity	
Other	
CULTURAL COMPONENTS	
Wildlife Harvesting	
Loss or reduction in game species populations	
Effects on traditional land use, subsistence, and harvesting rights	
Other	
Cultural Integrity and Heritage Resources	
Change to or loss of cultural integrity	
Change to or loss of traditional lifestyle	
Change to or loss of heritage resource	
Other	
Social and Economic Well-being	
Increased human health hazard and risk	
Economic opportunities or losses (employment, training)	
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans	
Impairment of the recreational or traditional uses of the land or water	
Impairment of the aesthetic quality of the land or water	
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)	
Other	

18. CLOSURE AND RECLAMATION

Use the grey field below to provide or reference the following information:

Closure and Reclamation Plan: Include a Closure and Reclamation Plan in the Application Package, if applicable, or for small-scale projects, describe the proposed closure and reclamation activities in the grey field provided below. Describe any temporary closure(s) and seasonal shutdowns. Please also refer to the MVLWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#).

Closure Cost Estimate: Prepare a Closure Cost Estimate and include it in your Application Package. Applicants are encouraged to contact Board staff, prior to applying, to determine which closure-cost-estimate template is most suited to the activities being applied for. Guidance is provided in section 2.2 of the MVLWB/INAC/GNWT [Guidelines for Closure and Reclamation Cost Estimates for Mines](#). If the Application is submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

A closure and reclamation plan will be provided once the camp is no longer required. This is not expected to happen within the 5 year term requested.

19. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide or reference the following information:

Engagement: Conduct engagement, prepare an Engagement Record and Engagement Plan in accordance with the MVLWB [Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits](#), and include them in your Application Package. Templates are provided in the Guidelines. Please also refer to [Information for Proponents on MVLWB's Engagement Requirements](#).

Land Use Plans: Contact the applicable Land Use Planning Board or the Tłı̨chǫ Government to discuss conformity with the relevant land use plan(s). Include a Land Use Plan Conformity Table in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

Traditional (Environmental) Knowledge (TEK/TK): Provision of TEK/TK is mandatory for applications to the SLWB. Other applicants are strongly encouraged to include TEK/TK.

Studies Undertaken to Date: List any relevant studies that support the proposed activities and include them in your Application Package.

Please see attached engagement log and engagement plan

20. FEES

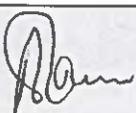
Refer to the [Guide](#) for assistance in determining relevant fees.

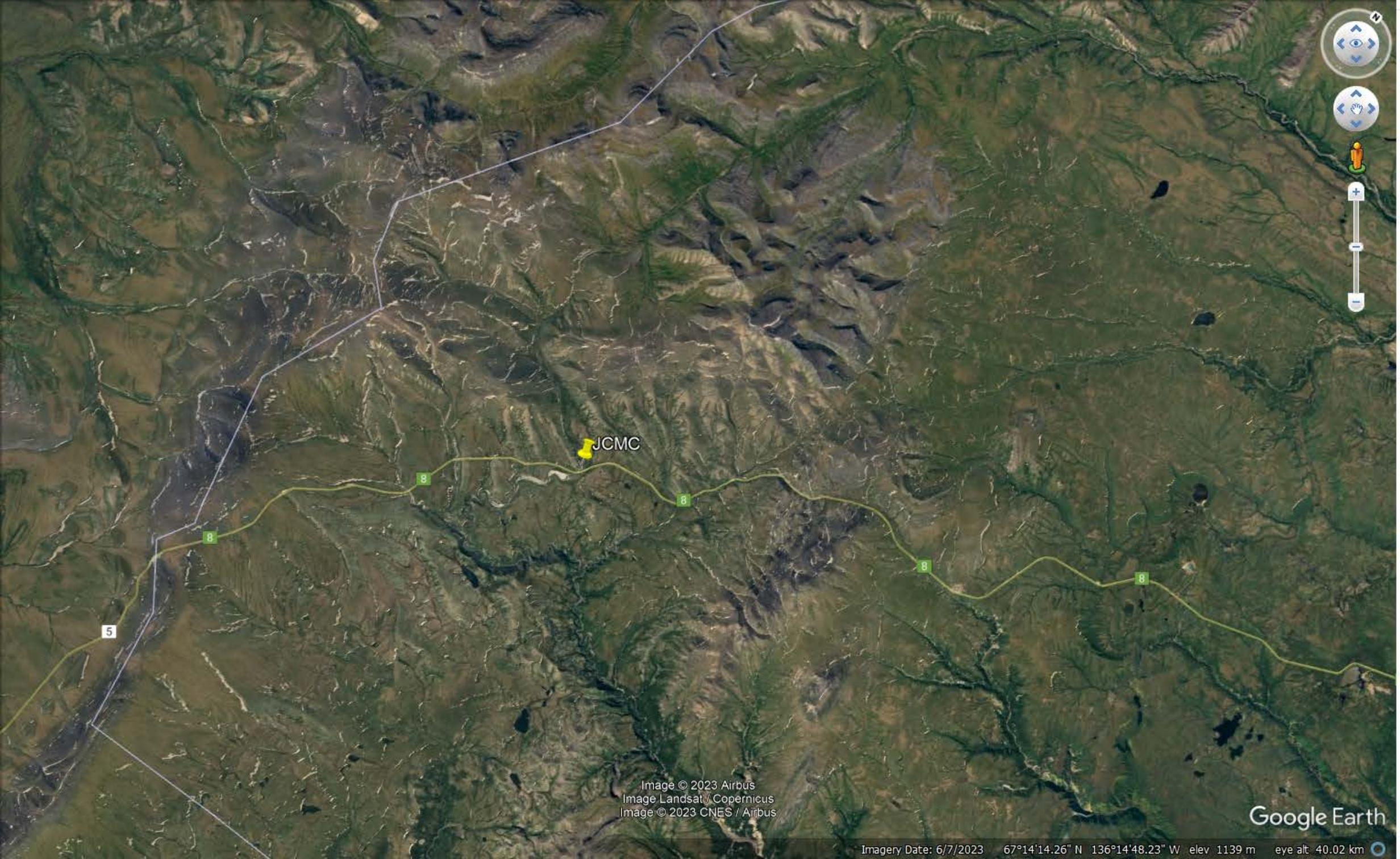
Type of Fee	Amount (\$)
Application fee (if applicable):	\$0
Land-use fees (for federal areas only):	\$0
Total Fees:	\$0

21. SIGNATURE

1. SIGNATURE

Shah Alam, P. Eng., E.P, CAPM	Project Officer/Engineer, Highways Operation, Department of Infrastructure, GNWT, Inuvik NT XOE OT0
Applicant's Name (print) or Company Name	Position (print)

	
Signature	Date



JCMC

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Image © 2023 Airbus
Image Landsat / Copernicus
Image © 2023 CNES / Airbus

Google Earth

Imagery Date: 6/7/2023 67°14'14.26" N 136°14'48.23" W elev 1139 m eye alt 40.02 km



JCMC

5

8

Fort McPherson

8

8

Peel River

Mackenzie River

Tsiigehtchie

Image Landsat / Copernicus

Google Earth

67°34'02.08" N 136°02'57.95" W elev 798 m eye alt 126.88 km



Dempster Hwy

JCMC

8

Image © 2023 Airbus

Google Earth

1985

Imagery Date: 6/7/2023 67°08'49.97" N 136°00'32.51" W elev 672 m eye alt 2.52 km



116P01

106M04

James Creek Maintenance Camp

Km 14.2 Dempster Highway 8

Legend

 James Creek Camp

 James Creek Camp

Google Earth

Image © 2023 Airbus

200 m



James Creek Maintenance Camp

Km 14.2 Dempster Highway 8

Legend

 James Creek Camp

 James Creek Camp

Google Earth

Image © 2023 Airbus



70 m

Environmental Information Report

Introduction:

The Department of Infrastructure is continuing the operation of the James Creek Highway Maintenance Camp and Fuel Storage Facility. The purpose of the project is to deliver transportation services to the region, create safe road conditions for travellers and maintain government assets for the operation and maintenance of an inter-territorial Highway System.

SECTION A:

Physical Description of the James Creeks Area

Geology and Geography



The area surrounding James Create is classified Taiga Cordillera Ecozone. It is a mountainous with shallow rivers meandering through rock walls, broad windswept uplands dominated by alpine and arctic shrubs and flowers, plus vast wetlands and spruce-lined valleys that support many kinds of wildlife. Covering the Yukon-Northwest Territories border, this ecozone contains the northernmost arc of the Rocky Mountain chain. To the northwest are expansive wetlands and rolling hills that stretch to the Beaufort coast. Treeless arctic tundra dominates its northern reaches and gives way to a mix of alpine tundra and lowland forests farther south. "Cordillera" refers to the series of mountain ranges and valleys that form this

ecozone's rugged interior. The diverse habitats, from valleys to mountain support a wide range of mammals, including two kinds of caribou and bears. The birds that nest here include a mixture of species typical of the Arctic and Subarctic, as well as eastern and western Canada. The climate is extremely cold and humid, with long, dark winters and short, cool summers. Precipitation is low to moderate, averaging from 250 to 300 mm a year across much of the ecozone. Snow and freshwater ice-cover persist for six to eight months annually.

Terrain and Soils

The Tundra Cordillera Ecozone is characterized by steep, mountainous terrain consisting of a series of sharply etched ridges and narrow valleys. Other features include rolling foothills, upland plateaus, and low-lying basins. The geological history of this region began about half a billion years ago. Rivers flowing off the protocontinent deposited sand, mud, and gravel on this platform, creating the sandstones, mudstones, and shales that make up much of the area's abundant sedimentary rocks (limestone and dolomite). Since then, these rocks have undergone slow but sure destruction by a variety of erosive forces: glacial ice sheets that engulfed much of the region several times over the last few million years; streams and rivers carved down through

the high plateaus and mountains; and the simple action of gravity, which causes mountains to gradually collapse. Some of the most unusual landscapes are, however, now near the Beaufort Sea. These areas escaped glacial scour. The cyclic freezing and thawing action of permafrost-rich soils enhances these processes of disintegration. The resulting polygon and stripe-like patterns often seen in alpine areas attest to the dynamic state of this ecosystem.

Plants

Types of plants in this ecozone and the rate of their growth are strongly influenced by their position on mountain slopes, which determines the amount of available soil moisture and sunlight. Western slopes often have more luxuriant plant cover than eastern ones, since clouds deposit most of their moisture on western slopes before continuing east. Similarly, northern and southern mountain slopes show pronounced differences in plant growth because of differences in the amount of sunlight they receive. South-facing slopes tend to be warmer and drier, conditions that favour soil nutrient release and plant growth common in more temperate climates. Plants on north-facing slopes typically include species better adapted to cold climates.

Four main vegetation zones are found in this ecozone. Extensive areas of alpine tundra occur on the upland plateaus and highest mountain slopes. Here, scattered among lichens, sedges, and mosses are species that typically possess very large flowers relative to the rest of the plant. Their function is to attract insect pollinators during the short growing season.

Further downslope is the subalpine transition zone, which is dominated by scattered Alpine Fir trees and a dense understory of Willow and Shrub Birch. White and Black Spruce replace firs in the lower parts of this zone. Below the subalpine zone on the lower flanks of the mountains is the montane zone, characterized by spruce-lichen woodlands and flat benches of Lodgepole Pine.

Birds

Some of the characteristic birds of prey are gyrfalcon, golden eagle, bald eagle, osprey, northern goshawk, boreal owl, short-eared owl, red-tailed hawk, northern harrier, American kestrel, and merlin. Shorebirds and seabirds that are found here include spotted sandpiper, common snipe, wandering tattler, herring gull, and mew gull. The songbirds of the Taiga cordillera include common redpoll, rusty blackbird, gray-cheeked thrush, tree swallow, dark-eyed junco, varied thrush, raven, white-winged crossbill, Lincoln's sparrow, Townsend's solitaire, water pipit, violet-green swallow, and gray jay. Waterfowl such as Canada geese, northern pintail, mallard, canvasback, and arctic loon are found here. Ruffed grouse, spruce grouse, northern flicker, willow ptarmigan, rock ptarmigan, and white-tailed ptarmigan are some of the birds of the forest.

Amphibians and Reptiles

The Taiga Cordillera is too far north for amphibians and reptiles.

Fish

Predators such as the northern pike feed on species including lake whitefish and lake chub. Chinook salmon and chum salmon come in from the ocean to spawn.

Molluscs

Two of the mollusc species found in this ecozone are the muskeg stagnicola and arctic-alpine fingernail clam.

Mammals

Because of its diversity of habitats, from dense spruce forests to arctic tundra, from alpine mountain peaks to marshy flats, the Taiga Cordillera Ecozone includes a wide array of wildlife species representative of both arctic and temperate climates. Mammals most common in alpine terrain include the American Pika, Hoary Marmot, Grizzly Bear, and Dall's Sheep. Mountain Goats, which are not really goats at all but members of the antelope family, are found on mountains in southern regions. During the spring and summer, alpine habitats are populated with several tundra-adapted birds, such as the White-tailed Ptarmigan, Horned Lark, and Water Pipit. Woodland Caribou, Lynx, Marten, and Black Bear are common mammals of the lower forested habitats. Common birds in this zone include the White-winged Crossbill, Varied Thrush, and Gray Jay. River and wetland habitats support several waterfowl species, including Canvasback, Common Golden-eye, Mallard, and the rare Trumpeter Swan. The Yukon's Old Crow Flats represent only a small part of this ecozone, yet it is a large and notable wetland that has received international recognition. Swans, Canada Geese, and other species nest or stage here each year in the tens of thousands. Another wildlife spectacle is the annual migration of the Porcupine Barren-ground Caribou, a herd of more than 150 000 animals that winters in the northwestern woodlands.

Evidence of this ecozone's wild and unspoiled character is Canada's largest concentration of Wolverines, a species that has been called a true wilderness creature. Like other members of the weasel family, this solitary nomad is curious, bold, and strong. It will fiercely defend its food against the attack of animals many times its size. Renowned for evading traps and robbing the most carefully protected caches of food, the Wolverine plays a leading role in the camp-fire tales of this region. About fifty species of mammals in total are found here.

Species at Risk

The Department of Environment and Natural Resources, Government of the Northwest Territories identifies a number of species that are either threatened or of special concern with ranges within which the bridge was constructed. Table 2, below, lists these species and their classification as described in the 2010 Edition of *Species at Risk in the Northwest Territories*.

Table 2: Species at Risk

Status in NWT		Gwich'in Region		Status in Canada	
		SARC Assessment	NWT List of Species at Risk	COSEWIC Assessment	Federal Species at Risk Act list
MAMMALS	Collared Pika	N/A	No Status	Special Concern	No status
	Grizzly Bear (Western population)	N/A	No Status	Special Concern	No status
	Wolverine (Western population)	N/A	No Status	Special Concern	No status
	Woodland Caribou (Boreal population)	Threatened	No Status	Threatened	Threatened
	Woodland Caribou (Northern Mountain population)	N/A	No Status	Special Concern	Special Concern
BIRDS	Horned Grebe (Western population)	N/A	No Status	Special Concern	No status
	Olive-sided Flycatcher	N/A	No Status	Threatened	Threatened
	Peregrine Falcon anatum-tundrius complex**	N/A	No Status	Special Concern	No status
	Peregrine Falcon subspecies anatum**	N/A	No Status	Threatened	Threatened
	Rusty Blackbird	N/A	No Status	Special Concern	Special Concern
	Short-eared Owl	N/A	No Status	Special Concern	Schedule 3
FISHES	Dolly Varden (Western Arctic Population)	N/A	No Status	Special Concern	No Status

Table 1: Species Risk Assessment for selected species listed in the NWT SAR Table for the Gwich'in Region

Species/Ranking	Extreme	High	Moderate	Low
Collared Pika			X	
Caribou (Boreal)				X
Bear (Grizzly)			X	
Wolverine				X
Snowshoe Hare				X
Raptors				X
Ptarmigan				X
Songbirds				X
Waterfowl				X
Shorebirds				X

Description of the Undertakings:

Timeframe

This continued operation will take place indefinitely. As the land use permit period is a maximum of seven years (five years with a two year extension), the default duration is August 2023 to August 2030.

Vegetation Removal

Vegetation will not be removed.

Mobilization

All required equipment is onsite and mobilization will not be necessary, nor will existing operation exceed the current footprint. Should mobilization be required to expand the existing developed area the GLWB will be notified and in the case of a scope change and the proper amendments/ permits will be acquired prior to development.

Sedimentation Monitoring

A developed laydown and equipment pad has been in place for decades and as such the area has shown no signs of sedimentation, sediment monitoring was deemed to be unnecessary.

SECTION B: PHYSICAL / CHEMICAL EFFECTS

Ground Water

Mitigations for impacts to ground water include a Fuel Transfer Best Management Practice document and an updated Fuel Spill Contingency Plan

Impacts to Surface Water Quality

The O&M work is will not to have an impact on water flow and surface water quality. Potential negative impacts should be minimal if management is consistent with fuel transfer protocols and spill contingencies. The streambed of natural stones won't be disturbed. There will be no long direct term effects on water quality, stream flow, and/or fish habitat since the operation does not involve in-stream works.

Fuel Spills and Leak Assessments

The work will involve heavy equipment; therefore there is always a chance that spills can occur. Diesel fuel and other combustible fluids will be used on the job site during the operation of heavy machinery. Fuel will be transported by truck from a local fuel station to the site. Whenever fuel is used there is a risk of spill during refueling and transportation of petroleum products. Fuel Spills could occur at the following times:

- a. *Transfer of the fuel from the fuel truck to the machinery*
- b. *As a result of leakage from working machinery*
- c. *As a result of an accident (e.g. fuel truck en route to or from the work site)*

A BMP for fuel transfer and management and spill contingency plan will include an assessment for these potential incidents, formalize an appropriate response and offer mitigation procedures for facility inspections.

Direct Spill Impact Mitigations

Fuel will be stored away from the site; 100m outside of the ordinary high water mark. Vehicles will be refueled in a designated area, at least 100 meters beyond the high water mark. Drip trays will be used where there is potential for small leaks and spills during extended vehicle

Department of Infrastructure

storage periods. Fuel and hazardous materials will be subject to the Spill Contingency Plan. All contractors will be briefed on the Spill Contingency Plan. A copy of the plan will be on the work site at all times.

Storage of materials

Construction Materials, Heavy Equipment and Camp related materials will be stored on site

Mitigations

All materials will be stored safely on-site, and will be 100m away from the ordinary high water mark. A fuel transfer best practices plan will form part of the operations and a fuel spill contingency plan is in place. Existing monitoring wells will be sampled twice annually (Freshet and Prior to Freeze up) and follow testing parameters established under the previous land use permit

Noise

Construction activity will generate a medium amount of noise during the project due to the use of Heavy Equipment and on-site power generation.

Land

The land is held and controlled by the Department of Infrastructure - Northwest Territories through the Transfer of Inter-Territorial Roads Program from the Government of Canada to the Government of Northwest Territories (represented in the agreement by the Department of Infrastructure).

Non-Renewable Resources

There will be no impact on non-renewable resources.

Air/Climate/Atmosphere

There will be localized, low level, transient impacts from equipment operation (exhaust) during the project but are not a regulatory concern and do not require additional authorizations.

Deposition of Waste

All construction waste will be transported away from the site and disposed of in the local landfill consistent with normal Department of Infrastructure operations.

SECTION C: BIOLOGICAL ENVIRONMENT

Wildlife Habitat

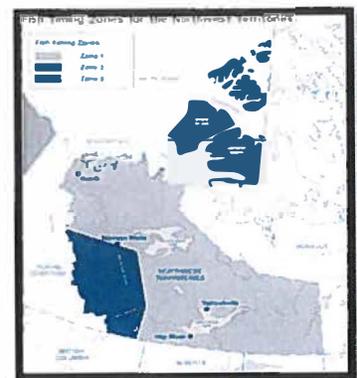
No long-term or permanent impacts on the habitat and wildlife population communities in the area are anticipated.

Vegetation

The area around the project site is completely vegetated (mosses and lichens) with the exception of the areas cleared for the road allowance and laydown areas in use. The taiga cordillera surrounds the project area and short shrubbery, weeds, and grasses are prevalent in and around the banks of James Creek.

Fishery and Fish Habitat

Currently local fishermen are not known to set nets on James Creek at this location. The creek is shallow and low energy for much of the year. Although the creek has a road access to the edge of the stream, no fording of James Creek will take place during this project incidental use of the stream for dust suppression happens periodically but water volumes are significantly less than what requires a water licence. All Department of Fisheries and Oceans Water withdrawal operational statement protocols are observed. The Department of Fisheries and Oceans lists Zone 1 "timing windows" for fisheries affected in ZONE 1 (largest zone of the NWT identified by DFO). However, no in-water work will take place in open water conditions without direct authorization from Department of Fisheries and Oceans.



SECTION D: Interacting Environment

Social and Economic

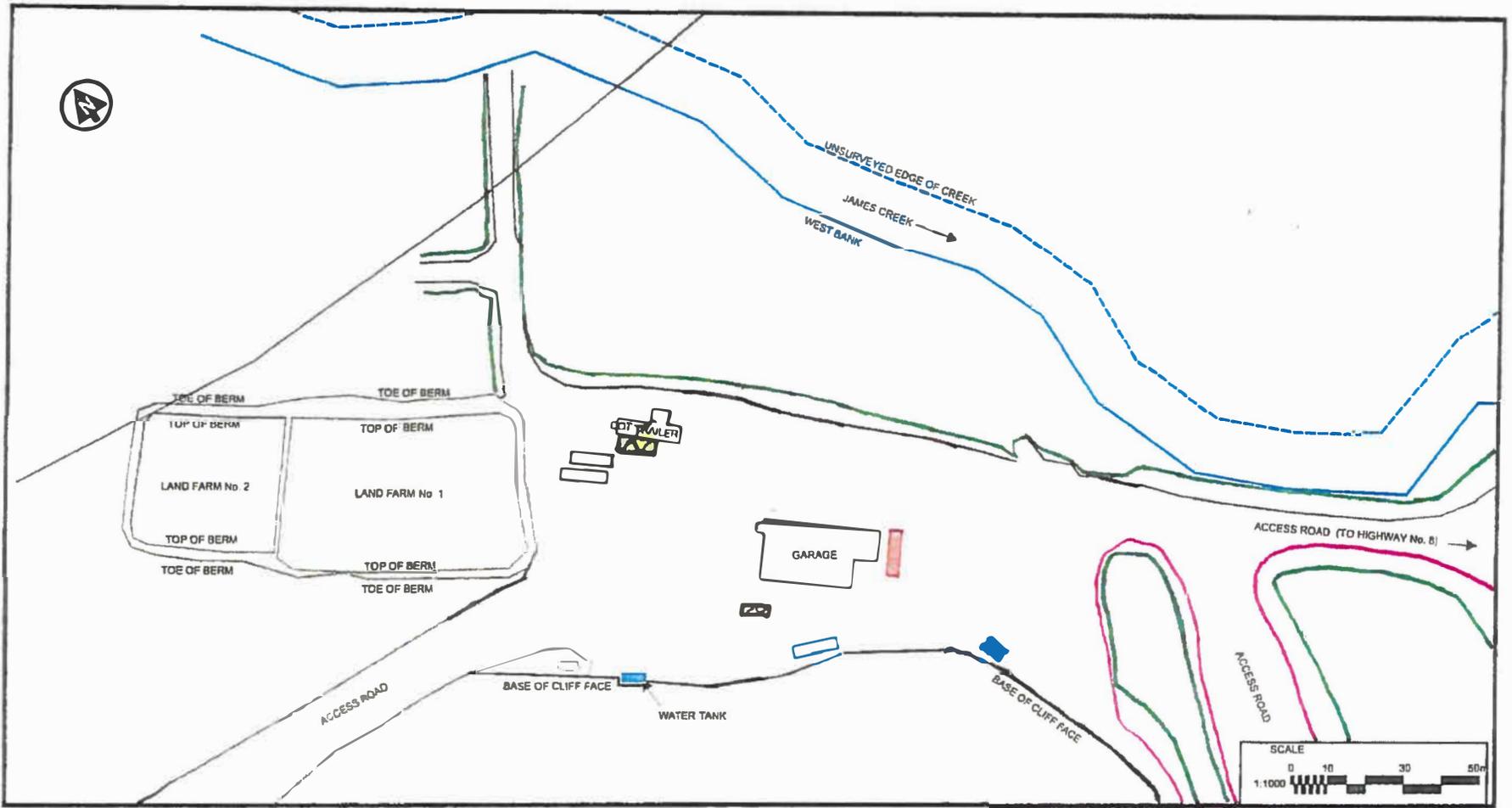
The site has been used for decades and has demonstrated little potential to disrupt traditional aboriginal use or occupancy. James Creek Highway's Maintenance Camp has provided steady employment and contract work for residents of Ft. McPherson where the population is predominantly Gwich'in and employment for other residents from the region who travel to James Creek from as far away as Inuvik (seasonal).

Cultural and Heritage

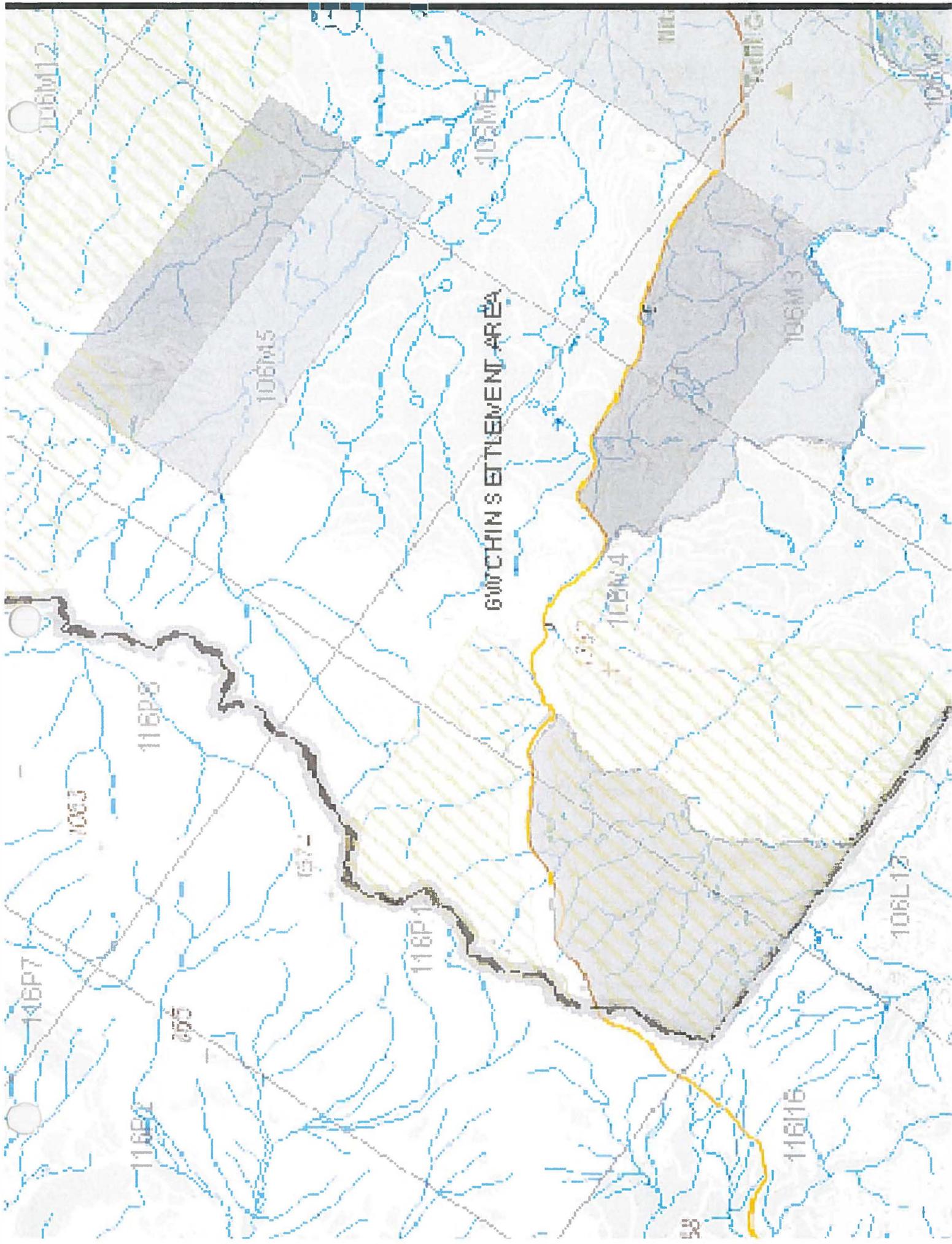
The area has been historically used as a water source by the Tetlit Gwich'in First Nation.

SECTION E: SUMMARY AND CONCLUSIONS

While there is some small potential for very minor sedimentation of James Creek after the spring melt, this is not expected to affect Fish or Fish Habitat, Wildlife, Water Quality or Soil destabilization. The soil is coarse to rocky and the physiography is Glacio-fluvial, therefore erosion caused by the Land Use is of low concern. Existing residual contamination beneath the garage is not a threat to James Creek since the hydrocarbon is isolated and not impacting the waterway (Reference: Oxy Technologies, March 28 2013 Final Remediation Pre-Treatment Assessment Report).



-  SEPTIC TANK
-  WATER TANK
-  FUEL TANK
-  EXISTING TRAILER



James Creek Camp at KM 14 of Dempster Highway -10

Inuvik Region
Department Of Infrastructure
EMERGENCY RESPONSE PLAN
and
SPILL CONTINGENCY PLAN

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Emergency Response Plan and Spills Contingency Plan

1.0 INTRODUCTION

The following is a plan of emergency response actions to be initiated when required by staff of the Department of Infrastructure (DOI), Highway Operations, GNWT, and their contractors, in relation to Dempster highway 8 widening and rehabilitation. The Emergency Response Plan (ERP) will be reviewed with all workers as part of their orientation before commencing work. Revisions to the ERP will be made as the project develops and will require that the plan be updated as the work progresses from one area to another. Worker's training will be updated as the changes are made to the plan.

Dates of Operation: May 01, 2023 to September 29, 2023

Project Description: The Department of Infrastructure is proposing to rehabilitating Dempster highway 8 as stated in attached Documents.

Site Location: Dempster Highway 8,

Types of Contaminants: Diesel, gasoline, hydraulic oil, motor oil, lubricating oils and grease, antifreeze and other coolants, contaminated soil, snow/ice and/or water

Storage of Contaminants: Petroleum products, for equipment, will not be stored at site

Use of Fuel Truck/Route: When necessary, fuel will be transported locally via the ITH-10

2.0 IMMEDIATE RESPONSE TO EMERGENCY SITUATIONS

2.1 Fire

- Secure the scene, PROTECT YOURSELF and OTHERS;
- Have all non-essential personnel clear the area;
- Notify other workers by voice or alarm;
- Immediately shut off power, engines and fuel sources, if safe to do so;
- If the fire is small, extinguish it with the available firefighting equipment;
- If you cannot safely fight the fire, evacuate to a safe and secure area;
- Do a head count to account for all workers; and
- Notify Supervision and Management in accordance with the emergency contact list in Appendix A.

2.2 Vehicle or Mobile Equipment Incident

- Secure the scene, PROTECT YOURSELF and OTHERS;
- Shut off equipment and fuel source, if safe to do so;
- Provide assistance to injured persons;
- Call for medical assistance, if needed; (Appendix A)
- If injured persons are in imminent danger, then remove injured persons and secure the incident scene;
- Control any spill or environmental hazard;
- Notify Supervision and Management in accordance with the emergency list in Appendix A and;
- Record third-party names, addresses, contact numbers, drivers' license numbers, vehicle and license information.

2.3 Serious Medical Incident

- Secure the scene, PROTECT YOURSELF and OTHERS;
- Attend to the injured worker;
- Call for medical assistance, if needed; (Appendix A)
- Notify Supervision and Management in accordance with the emergency contact list in Appendix A.

2.4 Wildlife Encounters

- All workers will avoid situations that could create a wildlife encounter;
- All food items and domestic garbage should be secured;
- Garbage will be disposed of at approved sites only;
- Arctic or red fox may approach personnel to scavenge food. Avoid all contact as they may carry the rabies virus and exposure is through bites or saliva;
- Your operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures will lessen the likelihood of bears being attracted to your operation. Information about the bear detection and deterrent techniques can be obtained from the Department of Resources, Wildlife and Economic Development at 867-777-7308 or 867-777-7230.

3.0 SPILL CONTINGENCY PLAN

The primary goal is to avoid spills or the unnecessary release of materials. All personnel shall have an environmental orientation prior to starting work. This will include a review of this Spill Contingency Plan (SCP).

In the unlikely event of a spill or release of materials, the objective will be a quick response. The SCP defines the responsibilities of site personnel and the required procedures for a quick response by emphasizing the need to reduce the safety hazards and minimize environmental impacts.

3.1 Preliminary Requirements

- A copy of this Emergency Response Plan will be available on site during all field operations;

- Materials Safety Data Sheets (MSDS) for each hazardous chemical shall be available on site during field operations;
- Maps indicating major roads, access roads, nearby surface water bodies, any Hazardous material stored on site, slope of the land, nearby communities and other important features;
- All vehicle/equipment shall be equipped with spill kits and shovels. Spill Kits, at a minimum, shall include sorbent pads or equivalent, shovels, and a means for containment of contaminated materials (e.g. impermeable tarps, barrels); and
- Suitable communication equipment and all emergency numbers will be available prior to commencement of all field activities.

3.2 Initial Response Procedures

Spills may result from any of the following occurrences:

- Leaks or ruptures of fuel storage drums or tanks
- Valve or line failure in systems, vehicles or heavy equipment
- Spill of lubricants during routine maintenance of equipment
- Improper storage of contaminants
- Vehicular accidents
- Spill during transfer for contaminant(s)
- Vandalism

In the event of a spill or a release of materials, the first person on the scene will;

- Before attempting to stop the flow, protect the safety of all personnel at site, and ensure all safety precautions have been taken. If possible, without further assistance, control danger to human life (remove ignition sources);
- Immediately obtain the assistance of others by activating the Spill Response Team and begin to assess and contain the spill;
- Identify the material spilled, assess Material Safety Data Sheets (MSDS) information and implement appropriate safety procedures, based on the nature of the hazard. If the identity is unknown and if identification means further risks, then action must be based on the assumption that the product is extremely dangerous. The crew is not to smell, taste, touch or attempt to reach ruptured containers if they are surrounded by the contaminant;
- Assess the dangers and hazards to personnel in the vicinity of the spill. Immediate determinations must be made about the direction of the spill's progress, whether downhill, towards the water or already in the water;

- Stop the flow of the spill at the source if possible, when safe to do so;
- Notify the NWT 24 Hour Spill Report Line (867)-920-8130, then the DOI primary contact (Appendix A).
- Gather information on the status and the nature of the situation.

When notified of a spill, the Field Supervisor, or person in charge of the emergency response measures will immediately ensure that;

- Action is taken to control danger to human life;
- An on-site safety supervisor is designated, if not already present;
- In the event that a spill exceeds any of the threshold quantities listed in Appendix B, the person in charge of the emergency response measures will complete the Northwest Territories (NT) Spill Report Form (see attached form in Appendix C) and then immediately report the spill to;

NWT 24 Hour Spill Report Line (867)-920-8130

Note: For fuel or hydraulic spills this threshold limit is 100 litres.

- The local R.C.M.P. shall be notified if a risk to the public exists.
- The necessary equipment and personnel shall be mobilized and implemented to stop the source of the spill and commence clean up.

3.3 General Spill Containment Procedures

- Identify the contaminant, stop the source of the spill, and when safe, immediately implement containment measures to limit the spread of the spill and to minimize the impacts to the environment;
- Prompt containment can reduce environmental exposure and risk. Containment measures may be land or water based. Land based measures include application of sorbents, construction of berms and diversion/collection trenches. Water based measures could include dams, dykes and floating booms;
- If spill source is a leaking fuel truck, pump tanker dry (into appropriate containers or another tanker);
- A shallow depression shall be excavated or a surface berm constructed in the path of the following product to stop and contain the flow. If feasible, without unduly delaying containment efforts, the surficial stripping shall be salvaged and stored

separately during excavations;

- Sorbent materials shall be utilized to contain and recover spilled material;
- Heavily contaminated soil and vegetation, as well as used sorbent material, shall be disposed of at an approved hazardous waste treatment facility;
- Traffic will be minimized on and around contaminated areas;
- Attempts will be made to restrict the movements of wildlife near the area affected by the spill, and;
- Remediation and final clean-up will be conducted until the spill and immediate location has been reclaimed to an equivalent capability prior to the incident.

3.4 Spills Adjacent to a Water Body

- Berms or trenches shall be constructed to restrain spilled products from entering into a water body;
- Spilled materials shall be recovered as quickly as possible;
- If spilled material enters an open water body, floating booms, skimmers and sorbent pads shall be deployed, if feasible, to contain and recover the spill material;
- If spilled material is released onto a frozen water body, snow and sorbent pads shall be used to contain and clean up the spill. A backhoe, or similar equipment, will remove all materials to prevent future release into the water body;
- Contaminated areas, including downstream shorelines (non-frozen conditions), shall be cleaned up in consultation with Spill Response Specialists and the appropriate Governmental Agencies, and;
- In the event that spilled materials enter a frozen water body through or under the ice to flowing or standing water, augering will be conducted to determine the extent of the spill plume. If feasible, a vacuum truck will be brought to the site to skim off the contaminants. As well, the appropriate regulatory agencies will be contacted and a post-break-up monitoring and reclamation plan will be implemented to determine the extent of the impacts of the spill on the water body and its banks.

3.5 Spot Spills

- The RWED Environmental Protection Services, (867) 873-7654, is to be contacted soon after a spot spill to determine appropriate methods to remove or restore contaminated soils. Since impacts from small spills can generally be minimized if immediate action is taken, all small spot spills shall be cleaned up immediately;
- Activities in the immediate vicinity will be suspended until the Department of Infrastructure or an Inspector from RWED Environmental Protection Services grants permission to resume;
- Heavily contaminated soil and vegetation, and/or removed contaminated materials will be incinerated, if safe to do so, or disposed of at an approved waste facility
- Locations where spot spills have occurred will be flagged and the GPS coordinate location recorded by the Person-in-Charge of the spill. Flags shall be removed once reporting is complete, and;
- The Person-in-Charge of the spill will document and report all details pertaining to the incident.

3.6 Spill Reporting

Whenever a spill is identified, the Contractor and the INF representative will be contacted as soon as possible. The Contractor is responsible for initiating the SCP. The Contractor will be identified through a public tender process to be initiated after permits are obtained.

To report a spill

1. The Northwest Territories Spill Report form (Appendix C), should be filled out as completely as possible before calling in the spill report.
2. Contact the Government of the Northwest Territories 24-hour Emergency Spill Report Line.

NWT 24 Hour Spill Report Line (867)-920-8130

- When calling the NWT Spills Hotline, the person reporting the spill shall provide the following:
 - **Date and time of spill**
 - **Direction spill is moving (or if it has stopped)**
 - **Name and phone number of persons close to the location of the spill**
 - **Type of containment spilled and quantity spilled**

- **Cause of the spill**
 - **Whether the spill is continuing or has stopped**
 - **Description of the existing containment**
 - **Actions taken to recover, clean-up and dispose of spilled contaminant**
 - **Name, address and phone number of person reporting the spill**
 - **Name of person in charge of management or control at the time of the spill**
3. Where fax is available, **fax** the completed Northwest Territories Spill Report Form to **867-873-6924**. Alternatively, if email is available, email the completed Northwest Territories Spill Report Form to spills@gov.nt.ca

Any person reporting a spill is required to give as much information as possible, however reporting of a spill should not be delayed if all of the necessary information is not known. Additional information can be provided later.

3.7 Reporting Procedure Chain of Events

- Worker notices spill;
 - Is the source of the spill still flowing?
 - Can the source be safely shut off?
- Worker notifies construction foreman and in sequence DOI supervisor is informed; then as a consequence, since this depends upon size and severity of spill, the Foreman and/or DOI Project Engineer:
 - Estimate Spill Reporting threshold quantities and proceed as previously detailed
 - Call the NWT Spills Hotline to file a report and request further information
- The Foreman or Project Engineer notifies;
 - DOI Inuvik and DOI Yellowknife
 - Community of Fort McPherson
- The NWT Spills Hotline notifies;
 - NWT Environment and Natural Resources
 - Gwich'in Land & Water Board
 - Department of Land
 - Department of Fisheries and Oceans
- The appropriate personnel arrive on site to contain and clean up the spill.

3.8 Spill Kits

The following outlines the recommended minimum requirements for contents of spill kits to be used during the Project; the Contractor is responsible for supplying the spill kits and is responsible for ensuring that there are spill kits accessible and located within the worksite. Each spill kit will be regularly inspected to ensure it always contains the following, at a minimum (in part from INAC 2007):

- 1 – 205 L open top steel drum with lid, bolting ring and gasket (spill kit container)
- 10 disposable large 5 mil polyethylene bags (dimensions 65 cm x 100 cm) with ties

- 4 – 12.5 cm x 3 m (5 in. X 10 ft.) sorbent booms
- 10 kg bag of sorbent particulate
- 100 sheets (1 bail) of 50 cm x 50 cm sorbent sheets
- 2 large (5 m x 5 m) plastic tarps
- 1 roll duct tape
- 1 utility knife
- 1 field notebook and pencil
- 1 rake
- 1 pick-axe
- 3 spark-proof shovels
- 4 Tyvex® splash suits
- 4 pairs chemical resistant gloves
- 4 pairs of splash protective goggles
- Instruction binder, including Spill Contingency Plan.

All fuel and services vehicles will carry a spill kit that includes the following:

- A minimum of 10 kg of sorbent materials (i.e. 200 pads, 12 socks, 10 pillows, or equivalent);
- Sorbent booms;
- Disposal container (tarpaulin, pails, barrel);
- Safety gloves and goggles; and
- Shovel

3.9 Spill Prevention

The most likely spill possibilities during construction would be leakage or line failure from heavy equipment or other vehicles, or vehicular accident. No contaminants will be stored onsite. Fuel transfer is not expected on site, but if required will be transferred via a fuel truck. Drip trays will be used during fuel transfer. Where drips or spills occur they will be cleaned up immediately. Further, spill response kits will be kept in all vehicles.

The risk of spills will be further reduced through regular inspection and maintenance of all heavy equipment and vehicles associated with the permitted activities. These activities may include, but not be limited to:

- Inspection of fuel and oil lines on all equipment;
- Completing on-site fuel transfer over spill pads/trays and a minimum of 100 m from the high water mark;
- Monitoring of tank volume during fuel transfer;
- Cleaning up drips and minor spills immediately; and,
- Ensuring the quick repair of any identified deficiencies on heavy equipment or other vehicles.

3.10 Personnel

All personnel hired to work on the Project will be familiar with on-site in spill prevention, response and clean-up measures

3.11 Equipment

The following is a list of equipment that is typically used for hauling activities. Equipment and attachments listed may vary slightly as a result of make and model, and no specific numbers for equipment are listed as numbers are depended on the level of service being provided. Equipment from the following list will be available to respond to potential spills:

Equipment	Size	Purpose
Service Vehicles	Various – pickup trucks, vans, automobiles.	Provide personnel transport, fuel transport by on board tidy tanks, mobile heavy equipment repair capacity.
Dozer	CAT D8, D6	Excavation, stockpiling
Backhoe	CAT 300	Excavations, loading
Loader	CAT 966, VOLVO	Loading
Tractor Trailers	Up to 18.5 m ³	Hauling
Grader	CAT 14	Grading

Appendix A – Emergency Contact Lists
Department of Infrastructure, GNWT

Department of Infrastructure Contacts	Name	Office	Residence
Primary	Merle Carpenter Regional Superintendent Inuvik Region	(867) 678-8096 ext 33600	-
Alternate	Mosiul Alam Regional Manager, Highway Operations	(867) 678-8096 ext 33620	-
NT 24 Hour Spill Report Line (867)-920-8130			

Inuvik Region

Emergency Services	Inuvik	Fort McPherson	Tsiigehtchic
Police	(867) 777-1111	(867) 952-1111	(867) 952-1111 (Fort McPherson)
Ambulance	(867) 777-4444		
Hospital/Medical	(867) 777-8000	(867) 952-2586	(867) 953-3361
Search and Rescue		1-800-267-7270 (all locations)	
Fire	(867) 777-2222	(867) 952-2222	(867) 953-2222

Contractor – To be updated once Contractor is determined

Contractor	Contact Name	Office
TBD		

*INF GNWT will notify a 24hr contact for the persons responsible for implementing the plan when contractor has been selected.

Key contact information:

Community of Fort McPherson	(867) 952-2428
Fort McPherson RCMP	(867) 952-1111
Fort McPherson Fire Response	(867) 952-2222
Gwich'in Land and Water Board	(867) 777-4954
Environmental Protection Division, Department of Environment and Natural Resources, GNWT	(867) 678-6650
GNWT Lands (Inspector)	(867) 777-8906
Fisheries and Oceans Canada (Yellowknife)	(867) 669-4900
Medivac (Yellowknife)	(867) 669-4115
Environment and Natural Resources (ENR)	(867) 873-7654
Emergency Measures Organization (EMO)	(867) 873-7554
GNWT Environmental Health Office	(867) 669-8979
ECCC Environmental Enforcement	(867) 669-4730
ECCC National Environmental Emergencies Centre	1-866-283-2333

Appendix B – Spill Report Threshold Quantities

Note: L = litre; kg = kilogram; PCB = Polychlorinated Biphenyls; ppm = parts per million

Item No.	Substance	Reportable Quantity
1	Explosives Compressed gas (toxic/corrosive) Infectious substances Sewage and Wastewater (unless otherwise authorized) Radioactive materials Unknown substance	Any amount
2	Compressed gas (Flammable) Compressed gas (Non-corrosive, non-flammable)	Any amount of gas from containers with a capacity greater than 100L
3	Flammable liquid	≥100 L
4	Flammable solid Substances liable to spontaneous combustion Water reactant substances	≥ 25 kg
5	Oxidizing substances	≥ 50 L or 50 kg
6	Organic peroxides Environmentally hazardous substances intended for disposal	≥1 L or 1 kg
7	Toxic substances	≥ 5 L or 5 kg
8	Corrosive substances Miscellaneous products, substances or organisms	≥ 5 L or 5 kg
9	PCB mixtures of 5 or more ppm	≥ 0.5 L or 0.5 kg
10	Other contaminants--for example, crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, wastewater.	≥ 100 L or 100 kg
11	Sour natural gas (i.e., contains H ₂ S) Sweet natural gas	Uncontrolled release or sustained flow of 10 minutes or more
12	Flammable liquid Vehicle fluid	≥ 20 L When released on a frozen water body that is being used as a working surface
13	Reported releases or potential releases of any size that: 1. are near or in an open water body; 2. are near or in a designated sensitive environment Or habitat; 3. Pose an imminent threat to human health or safety; or 4. Pose an imminent threat to a listed species at risk or its critical habitat	Any amount

Appendix C: NWT Spill Report Form

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND
OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

Tel: (867) 920-8130 • Fax: (867) 873-6924 • Email: spills@gov.nt.ca



REPORT LINE USE ONLY

A	Report Date: MM DD YY	Report Time:	<input type="checkbox"/> Original Spill Report OR		Report Number:
	Occurrence Date: MM DD YY	Occurrence Time:	<input type="checkbox"/> Update # _____ to the Original Spill Report		
C	Land Use Permit Number (if applicable):		Water Licence Number (if applicable):		
D	Geographic Place Name or Distance and Direction from the Named Location:			Region: <input type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean	
E	Latitude: _____ Degrees _____ Minutes _____ Seconds		Longitude: _____ Degrees _____ Minutes _____ Seconds		
F	Responsible Party or Vessel Name:		Responsible Party Address or Office Location:		
G	Any Contractor Involved:		Contractor Address or Office Location:		
H	Product Spilled: <input type="checkbox"/> Potential Spill	Quantity in Litres, Kilograms or Cubic Metres:		U.N. Number:	
I	Spill Source:	Spill Cause:		Area of Contamination in Square Metres:	
J	Factors Affecting Spill or Recovery:		Describe Any Assistance Required:		Hazards to Persons, Property or Environment:
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials:				
L	Reported to Spill Line by:	Position:	Employer:	Location Calling From:	Telephone:
M	Any Alternate Contact:	Position:	Employer:	Alternate Contact Location:	Alternate Telephone:

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____			Significance: <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Unknown		File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed
Agency:	Contact Name:	Contact Name:	Remarks:		
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					



Waste Management Plan for the James Creek Maintenance Camp Km 14.2 Dempster Highway NWT Highway #8

Government of the Northwest Territories – Department of Infrastructure

June 2023



Government of
Northwest Territories

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Abbreviations

ECC	Department of Environment and Climate Change, Government of the Northwest Territories
EPA	Environmental Protection Agency
GLWB	Gwich'in Land and Water Board
GNWT	Government of the Northwest Territories
INF	Department of Infrastructure, Government of the Northwest Territories
kg	Kilogram
km	Kilometre
L	Litre
LUP	Land Use Permit
m	Metre
NT	Northwest Territories
NWT	Northwest Territories
MVLWB	Mackenzie Valley Land and Water Board
O&M	Operations and Maintenance
SCP	Spill Contingency Plan
TDGR	Transportation of Dangerous Goods Regulations
WMP	Waste Management Plan

1 Introduction

This Waste Management Plan (WMP) has been developed by the Government of the Northwest Territories (GNWT) Department of Infrastructure (INF), to accompany the renewal Land Use Permit application for the James Creek maintenance camp located at Km 14.2 on NWT highway #8. This land use permit renewal is required for the ongoing operations and maintenance of the highway.

The purpose of the WMP is to provide a guide to all site personnel on the waste management goals, objectives and procedures to be followed during the permitted operations and maintenance activities. The WMP will ensure components of the environment, including air, water, land, vegetation, wildlife and fish, are not negatively affected. It will ensure aesthetic and land use values remain intact and comply with all applicable acts and regulations as well as conditions outlined in the INF's LUP. The WMP has been developed in accordance with the Guidelines for Developing a Waste Management Plan, prepared by the MVLWB (2011).

1.1 Contact Information

1.1.1 Proponent

Shah Alam
Project Officer/Engineer
Department of Infrastructure
Beaufort Delta Regional Office
106 Veteran's Way Inuvik, NT X0E 0T0
867-678-8096 ext 33621

1.1.2 Contractor

Name:	Leslie J. Blake		
Position:	Director		
Company Name:	LJ's Septic Services & Contracting Ltd		
Mailing Address:	4 Industrial Road, PO Box 151		
Community:	Fort McPherson	Telephone:	867-952-2901
Prov/Terr:	NT	Email:	ljcontracting@hotmail.com
Postal Code:	X0E 0J0	Other:	

1.2 Effective Date

This WMP will come into effective immediately once the permit is issued. The WMP will be revised as needed to reflect site-specific conditions. Revisions will be submitted to GLWB.

1.3 Distribution List

This plan and the most recent revisions will be distributed to:

- Project Manager(s), INF
- Project Manager, Contractor (upon contract award)

- GLWB

1.4 Environmental Policy and Procedures

This WMP deals specifically with procedures and policies for the safe and responsible handling, storage and disposal of waste materials, which have served their original purpose and are scheduled for disposal. It provides background information on the handling of wastes and details the operational requirements to ensure that permitted Projects under this LUP are conducted in an environmentally responsible manner.

1.5 Legislation and Guidelines

This plan been developed in consideration of the applicable territorial legislation including the following reference documents:

- Northern Land Use Guidelines: Camp and Support Facilities (Lands 2014a)
- Northern Land Use Guidelines: Roads and Trails (Lands 2014b)
- Guideline for the General Management of Hazardous Waste in the NWT (ENR 2017)
- Guidelines for Developing a Waste Management Plan (MVLWB 2011)

2 Project Details

The James Creek Maintenance Camp is used for equipment storage and maintenance, fuel storage, and includes 2 accommodation trailers that are used at times. The facility is essential for the operation and maintenance of the NWT Highway 8.

3 Definitions

Under the authority of the *Environmental Protection Act* (EPA), the GNWT has produced a series of environmental guidelines for the management of specific hazardous wastes commonly produced on similar projects. The Environmental Guideline for Hazardous Waste (GNWT 2017) provides definitions of the terms used in the EPA and describes the acceptable waste management practices. The following definitions are particularly important to this document.

3.1 Hazardous Waste

A contaminant is a dangerous good that is no longer used for its original purpose and is intended for recycling, treatment, disposal or storage.

A 'hazardous waste' does not include a contaminant that is:

- Household in origin;
- Included in class 1 (explosives) or class 7 (radioactive materials) of the Transportation of Dangerous Goods Regulations (TDGR);

- Exempted as a small quantity;
- An empty container; or
- Intended for disposal in a sewage system or by land filling that meets the applicable standards set out in Schedules 1, III or IV of the Guideline for Industrial Waste Discharges in the NWT.

3.2 Empty Container

A container that has been emptied, to the greatest extent possible, using regular handling procedures, but its contents shall not exceed 1% of the container’s original capacity or 2 litres (L), whichever is less. This does not include containers which previously contained mercury, or Class 2.3, 5.1 or 6.1 materials of TDGR.

3.3 Small Quantity

Hazardous wastes are considered to be small quantities if it is generated in an amount that is less than 5 kilograms (kg) per month if a solid or 5 L per month if a liquid; and where the total quantity accumulated at any one time does not exceed 5 kg or 5 L. This does not apply to wastes that are mercury or in Class 2.3, 5.1 or 6.1 of the TDGR. These wastes must be generated in an amount less than 1 kg per month if a solid or 1 L per month if a liquid; and where the total quantity accumulated at any one time does not exceed 1 kg or 1L.

3.4 Sump

A man-made pit or natural depression in the earth's surface used for the purpose of depositing Waste that does not contain Toxic Material, such as non-toxic Drilling Waste.

4 Identification of Waste Types

Over the course of operations and maintenance, several types of waste will likely be generated by equipment and crews working within the LUP’s right of way. The primary type of waste will include non-mineral wastes; however, some hazardous wastes may be generated. The types of waste anticipated to be generated are outlined below.

Segregated Waste Streams

Waste Stream	Description	Handling Method	Disposal Method
Domestic wastes (organic and non-organic)	Organic and non-organic waste including garbage, rubbish or food scraps	Place in odour proof secure waste containers, minimizing wildlife attractants.	Waste will be progressively removed from the James Creek Camp facility and disposed of at an approved solid waste facility.
Sewage	Grey/black-water	Stored in a portable washroom facility during the Project.	Will be removed from the Project work sites and disposed at an approved sewage disposal facility

Potential hazardous wastes generated on-site include waste oil, fuel, lubricants, oil filters, solvents, etc., from use and maintenance of heavy equipment. Other potential wastes may include contaminated soil, snow or

water should a spill occur during Project activities. Although not anticipated, the Project may also generate other non-project specific wastes. These wastes are outlined in Table 4-2 below.

Other Potential Waste Streams

Waste Stream	Description	Handling Method	Disposal Method
Wastes generated during spills (including hydrocarbon containers, absorbents, contaminated snow/water)	Contaminated materials with fuel (gasoline or diesel), oil, lubricants, solvents, antifreeze	Place contaminated materials in appropriate storage containers.	Soils or liquid residue will be removed by registered hazardous waste carrier to an approved disposal facility.
Batteries (lead acid and alkaline)	From personnel and equipment	Place in appropriate containers	Removed and disposed of at an approved disposal facility.

4.1 Non-Hazardous Wastes

The non-hazardous waste generated will primarily include domestic waste such as garbage from food. The potential environmental effects arising from unmanaged non-hazardous waste include increased wildlife attractants, a change in the aesthetics to the area, degradation of water quality, and degradation of wildlife habitat.

4.2 Sewage

Portable washroom facilities will be utilized by Project personnel. Wastewater (sewage and grey water) will be collected by a vacuum truck and transferred to an approved facility for disposal, subject to community approval and capacity at local facilities.

The potential environmental effects arising from unmanaged sewage wastes include degradation of soil quality, degradation of water quality, degradation of wildlife habitat, and harm to on-site personnel.

4.3 Hazardous Waste

Vehicle maintenance may occur at the James Creek Camp. Wastes associated with these maintenance activities may include used oil filters, used oil, etc. Other potential hazardous wastes may include contaminated soil, snow or water and sewage if a spill occurs during the Project.

The potential environmental effects arising from unmanaged hazardous wastes include degradation of soil quality, degradation of water quality, degradation of wildlife habitat, and harm to on-site personnel.

5 Waste Management Facilities

Various types of wastes could be generated under this LUP. It is essential that these wastes are handled, stored and managed in a safe and environmentally responsible manner.

Diesel and gasoline will be the two primary fuels stored at the facility, each sourced from existing fuel tanks. Diesel will be used for mobile equipment and vehicles. Gasoline will be required, depending on the type of vehicles and some small equipment that are used.

INF expects that the external fuel tanks will include tidy tanks placed on an elevated and secured platform. All fuel tanks used will meet regulatory requirements.

All waste management facilities are subject to community approval and capacity to access and handle different types of waste. INF will confirm with individual communities and seek the appropriate approvals for waste disposal depending on the nature of the operations and maintenance projects conducted under this LUP.

6 Management of Waste Types

This section of the plan describes the general procedures and principles that are to be followed by site personnel in handling and storing wastes. The waste management program will attempt to minimize waste production by applying the principles of reducing the use of materials, reusing materials whenever possible, recycling materials and recovering value from used materials. Additional programs for handling, disposal and recycling of other wastes will be developed as needed. The subsections listed below deal with specific wastes that may be encountered during the Project.

6.1 Non-Hazardous, Non-Mineral Wastes

During the Project, the following management and mitigation techniques will be implemented to reduce the potential for environmental effects associated with non-hazardous, non-mineral wastes.

6.1.1 Domestic Wastes

Waste management practices will be implemented that minimize attractants to wildlife, including:

- Minimizing and properly disposing of garbage, food wastes and other edible and aromatic substances into odour-proof secure containers (wildlife-proof).
- Separating recyclables such as beverage containers, plastics, alkaline batteries and possible electronics for proper disposal offsite.
- Organizing wastes into containers with secure lids to store onsite. This material will then be progressively removed from site throughout construction operations.
- Ensuring work crews inspect work areas and collect and properly dispose of any waste that may have been discarded.

6.2 Hazardous Waste

INF is responsible for the proper management and disposal of hazardous waste generated on the Project site either directly by INF or by its contractors. As a result, any and all hazardous waste that is managed by the Contractor will be submitted under INF's registered generator of hazardous waste number 'NTG001'. The Contractor will be responsible for completing and managing the hazardous waste movement documents according to the Guideline for the General Management of Hazardous Waste in the NWT (ENR 2017), while maintaining contact with INF to ensure proper management of the waste.

If hazardous materials and wastes (fuels, oils and lubricants) are generate, they will be stored within secondary containment at least 100 m away from the high water mark of any watercourses, as per the Spill

Contingency Plan (SCP) for the Project. Any hazardous wastes will be stored in clearly marked containers with lids (i.e., drums) and in clearly marked areas (e.g. signs and flagging). Containers will be kept clear of debris and snow to facilitate route inspections for leaks. Hazardous wastes will be removed from the designated storage area as often as possible, but at the end of the Project at a minimum. Wastes will be transported to an approved facility for treatment/disposal. If other contaminated materials require disposal (i.e. spill pads), these will be disposed of through a licensed facility. On behalf of the INF (the waste generator), the Contractor will complete the appropriate waste manifest to fulfill TDGR requirements and the requirements of the Guideline for the General Management of Hazardous Waste in the NWT. Any contaminated snow, soil, and/or water will also be transported to an approved facility for treatment/disposal.

6.2.1 Sewage

Sewage will be transported to a disposal facility pending community approval.

6.2.2 Contaminated Soils and Snow

Contaminated soils and/or snow as a result of hydrocarbon spills or other spill material is anticipated to be minimal as all site personnel will be familiar with the Project's SCP and will follow proper safe operating procedures.

In the event that a spill should occur, it is expected that contaminated soils/snow will be picked up and placed in suitable storage containers (i.e. drum). The wastes will be removed from the Project worksites by a registered hazardous waste carrier and disposed of at an approved facility. Should a larger spill occur, a secondary containment structure or lined facility which may be required.

6.2.3 Waste Oils

Waste oil will be stored in containers suitable for that purpose. Other waste types, such as antifreeze or solvents will not be stored in the same container as waste oils.

6.2.4 Used Filters

Used filters will be temporarily stored in filter containers and will then be disposed of at an approved registered facility.

6.2.5 Used Hydrocarbon Containers and Absorbents

Used hydrocarbon containers, absorbents or rags produced onsite, along with any used spill response materials, such as fibre pads or granular absorbents ('floor dry') will be placed in appropriate containers and disposed at an approved disposal facility in accordance with regulatory requirements.

6.2.6 Animal Carcasses

If encountered, animal carcasses will be removed from the Project work sites through discussions with the Department of Environment and Natural Resources (ENR).

6.2.7 Batteries

Lead acid batteries and alkaline batteries will be placed into appropriate containers and disposed of at an approved registered facility.

7 References

- Ecosystem Classification Group (ECG). 2007 (rev. 2009). Ecological Regions of the Northwest Territories: Taiga Plains. Department of Environment and Natural Resources, GNWT. Yellowknife, NT. viii + 173 pp. + folded insert map.
- Environment and Natural Resources (ENR). 2003. Used Oil and Waste Fuel Management Regulations – Plain Language Guide. GNWT. Yellowknife, NT. Retrieved January 2016 from: http://www.enr.gov.nt.ca/sites/default/files/guidelines/used_oil_guide.pdf.
- Department of Lands (Lands). 2014a. Northern Land Use Guidelines: Camp and Support Facilities. GNWT. Yellowknife, NT. Retrieved January 2020 from: https://www.lands.gov.nt.ca/sites/lands/files/resources/nlug_camps_2015_english_16_sept_2015.pdf
- Department of Lands (Lands). 2014b. Northern Land Use Guidelines: Roads and Trails. GNWT. Yellowknife, NT. Retrieved January 2020 from: https://www.lands.gov.nt.ca/sites/lands/files/resources/nlug_roadstrails_2015_english_16_sept_2015.pdf
- GNWT. 2017. Guideline for the Hazardous Waste Management. Web access: https://www.enr.gov.nt.ca/sites/enr/files/resources/128-hazardous_waste-interactive_web_0.pdf . Last retrieved November 2019.
- Mackenzie Valley Land and Water Board (MVLWB). 2011. Guidelines for Developing a Waste Management Plan. MVLWB, Yellowknife, NT. Retrieved August 2014 from: <http://mvlwb.com/resources/policy-and-guidelines>.
- TDIC HRN Contracting Joint Venture. DOT. Tetra Tech EBA. 2015. Construction of the Norman Wells to Canyon Creek Access Road: Waste Management Plan.

James Creek Land Treatment Unit Remediation 2023-24

Project Owner: Government of Northwest Territories
Contractor: Gwich'in Development Corporation (GDC)
Accommodation: LJ's Contracting

Purpose:

To treat remaining part of the 2700 m³ soil in LTU 1 by adding fertilizer and mixing in situ using an Allu Bucket. Fertilizer is MAP (Monoammonium Phosphate, Fertilizer Number 12:55:00) be added at a rate of 500 mg/kg or about 0.8 Kg per cubic meter of soil. About 2500 kg of MAP will be required and bought on site to complete the soil remediation process.

Area of soil Treatment Landfarm: about 63 m x 43m = 2709 m² to accommodate the candidate soils.

Methodology

Soil will be turned and agitated in layers so that soil will receive MAP at a rate 0.8 kg/m³ by volume. The contractor will use excavator, allu bucket, and small CAT equipment for turning and placing soils. QA/ QC activities be carried by GDC on site. Appropriate PPE for site personnel will be provided by the contractor.

Work Schedule:

With the privilege of heat and sun light, soil turning and placing work will be carried mostly during the month of August 2023, Monday – Friday. Soil mixing and soil treatment works be in average 6-12 days a month.

Sampling and Tests information:

- Soil samples will be collected from landfarm area in prescribed bags and containers, will be sent out to a CALA accredited lab for fuel leached hydrocarbon fraction (F2: C10-C 16) contamination tests.
- The LTU soils will be sampled in September 2023 to satisfy the soil remediation requirements.

GDC has carried soil mixing event in June 2022 after mechanically aerated the soil in advantage of the warmer summer weather to allow further bioremediation to take place. The test results in 2022 indicated a reduction in contaminants of concern over the last several years to the point where only one sample (TH5) exceeded the criteria (CCME, coarse grained soil, commercial) for the F2 fraction (C10 to C16). However, Ethybenzene exceedances persist in the 2021 sampling

Background:

The Camp site has had several fuel releases during its uses as highway maintenance camp resulting in impacts to soil and potential impact to water. For remediation compliance, DOI constructed two LTUs onsite (LTU 1- in 2001 and LTU-2 in 2009) capable of receiving contaminated soil from projects at the

James Creek Land Treatment Unit Remediation 2023-24

Site. Soil contained in LTU 1 is from historical releases that have occurred at the Site and the estimated total volume of soil present is 2,700 m³. Soil in LTU 2 is from remedial activities associated with a fuel release that occurred in the summer of 2016 and the volume of soil present is approximately 1,070 m³. KBL Environmental Ltd (KBL) was retained to provide soil tilling and sampling services at the James Creek Camp.

Soil samples were collected at the completion of tilling activities were submitted to the laboratory and analyzed for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) along with petroleum hydrocarbon fractions F1- F4

Based on the results of the tilling and sampling event, soil impacted above applicable guidelines remains in all sampled rows of both LTU 1 and LTU 2. It is recommended that additional soil treatment be undertaken during summer months to provide additional bioremediation of impacts in the soil contained in LTUs at James Creek.



Engagement Plan for the James Creek Maintenance Camp Km 14.2 NWT Highway 8

Government of the Northwest Territories – Department of Infrastructure



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Introduction

The Government of the Northwest Territories, Department of Infrastructure (INF) has operated the James Creek Maintenance Camp as part of the Highway 8 operations and maintenance for an extensive number of years. Comprehensive community engagement regarding the site has been undertaken on a continual basis since permitting requirements came into place. As Public Servants, the staff of the GNWT are accountable and open to the public for discussion of all matters. As such, the Department and staff are well acquainted with the communities and community members along the Dempster Highway, and engagement practices and community relationships are well established.

Affected Parties

Affected parties for the land use permit were identified during the previous permitting process and have grown to include a number of aboriginal groups and other affected parties. The groups identified in the 2023 Renewal include:

- Aklavik Indian Band
- Charter Community of Tiisgehtchic
- Ehdiiat Gwich'in Council
- Ehdiiat Gwich'in Renewable Resources Council
- Gwich'in Land Use Planning Board
- Gwich'in Renewable Resources Board
- Gwich'in Tribal Council – Department of Cultural Heritage
- Gwich'in Tribal Council
- Gwich'in Tribal Council – Lands and Resources
- Gwichya Gwich'in Band
- Gwichya Gwich'in Council
- Gwichya Gwich'in Renewable Resources Council
- Hamlet of Aklavik
- Hamlet of Fort McPherson
- Inuvik Native Band
- Nihtat Gwich'in Council
- Nihtat Gwich'in Renewable Resources Council
- Teetl'it Gwich'in Band
- Tetlit Gwich'in Renewable Resource Council
- Tetlit Gwich'in Council
- Town of Inuvik

The Department of Infrastructure may engage with other Parties on a case by case basis as appropriate.

Past Engagement Activities

Multiple opportunities to engage stakeholders have occurred throughout the years, including during the previous land use permit renewal process. Written engagement was carried out during the 2023 renewal permit process and no concerns or comments were provided. As a result of the open lines of communication, the Department has kept community members involved and informed on an ongoing basis.

Engagement Approach

The Department of Infrastructure believes that meaningful community engagement is crucial in building and maintaining good relationships with communities and community members. The Department of Infrastructure Regional Offices' are open for residents to provide comments and concerns, or to ask questions regarding the Departments activities. As a result of the Departments open lines of communication, well-established relationships have been built with the people and communities of the Northwest Territories.

Engagement Activities for the Project

During the life of the maintenance camp, INF will build on the engagement approach and there will be opportunities for affected parties to learn and provide input on the operations. This engagement plan will ensure that the people of the Hamlet of Fort McPherson, the major stakeholder, are aware of the activities occurring at the maintenance camp.

Engagement for on-going operations could include key activities such as:

- Spills;
- Maintenance Work that could impact highway users; and
- Amendments, extensions or renewals to the land use permit

If there is a community meeting to take place it will be open to all members of the community, including:

- Youth;
- Elders;
- Women and Men; and
- Any other community members interested in participating.

Summary

A summary of engagement triggers and methods is provided below in Table 1.

Table 1: Summary of Engagement Triggers and Methods

Engagement Trigger	Primary Purpose	Primary Methods	Primary Participants
Amendments to the land use permit	To advise stakeholders and the public of amendments to the land use permit	Verbal and/or written notification	GLWB and parties identified in <i>Affected Parties</i>
Renewing or extending the land use permit	To advise stakeholders and the public of the departments intentions to renew or extend the land use permit	Verbal and/or written notification	GLWB and parties identified in <i>Affected Parties</i>
Spills	To advise affected stakeholders of spills	Verbal and/or written notification	Spill hotline, GNWT Water Resource Officer, Tetlit Gwich'in Council and renewable resource council, GLWB
Maintenance Activities that could impact highway users	To advise the public of any closures or opening	Verbal and/or written notification, as well as social media	Public
Other	To discuss any concerns or other topics that may arise	Written, verbal, or as required by affected parties	Tetlit Gwich'in Council and renewable resource council, and/or any other group or individual

Appendix E - Pre-Submission Engagement Record (Summary and Log) Template ¹³

1. Pre-Submission Engagement Summary: Dempster Highway (NWT Highway #8) Land Use Permit Amendment

Name of Proponent: GNWT – Department of Infrastructure

Name of Affected Party: Aklavik Indian Band, Charter Community of Tsiigehtchic, Ehdiitat Gwich'in Council, Ehdiitat Gwich'in Renewable Resources Council, Gwich'in Land Use Planning Board, Gwich'in Renewable Resources Board, Gwich'in Tribal Council – Department of Cultural Heritage, Gwich'in Tribal Council, Gwich'in Tribal Council – Lands and Resources, Gwichya Gwich'in Band, Gwichya Gwich'in Council, Gwichya Gwich'in Renewable Resources Council, Hamlet of Aklavik, Hamlet of Fort McPherson, Inuvik Native Band, Nihtat Gwich'in Council, Nihtat Gwich'in Renewable Resources Council, Teet'it Gwich'in Band, Tetlit Gwich'in Renewable Resource Council, Tetlit Gwich'in Council, Town of Inuvik

Name(s) of representative(s) of affected parties who participated in engagement	Dates of Engagement (e.g. list dates or range of dates)	Reason(s) for Engagement (e.g., application for timber harvesting)	Overview of Issue(s) Resolved	Overview of Issue(s) Unresolved
Aklavik Indian Band egc.director.aklavik@gmail.com	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a

<p>Charter Community of Tsiigehtchic sao@tsiigehtchic.ca financemanager@tsiigehtchic.ca</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>
<p>Ehdiitat Gwich'in Council Mike_greenland91@hotmail.com</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>

<p>Ehdiitat Gwich'in Renewable Resources Council</p> <p>errccoord@northwestel.net</p> <p>jjoo@grrb.nt.ca</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter.</p> <p>Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>
<p>Gwich'in Land Use Planning Board</p> <p>planner@gwichinplanning.nt.ca</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter.</p> <p>Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>

<p>Gwich'in Renewable Resources Board office@grrb.nt.ca</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>
<p>Gwich'in Tribal Council – Department of Cultural Heritage SSnowshoe@gwichin.nt.ca Leighann.williamsjones@gwichintribal.ca</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>

Gwichya Gwich'in Band edo@tsiigehtchic.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Gwichya Gwich'in Council ceo@gwichyagwichin.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Gwichya Gwich'in Renewable Resources Council gwichyarrcb@hotmail.com	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a

Hamlet of Aklavik saoaklavik@permafrost.com	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Inuvik Native Band bandmanager@inuviknativeband.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Nihtat Gwich'in Council financeofficer@nihtatgwichin.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Nihtat Gwich'in Renewable Resources Council rrc@nihtatgwichin.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a

Teetl'it Gwich'in Band tgcbandmanager@gmail.com	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Tetlit Gwich'in Renewable Resource Council GeorginaVN@tgcouncil.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Tetlit Gwich'in Council ExecDirector@tgcouncil.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a
Town of Inuvik RCampbell@inuvik.ca	Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.	Pre-submission engagement letter for land use permit G20H006 renewal	No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.	n/a

<p>Hamlet of Fort McPherson sao@fortmcperson.ca dirfinance@fortmcperson.ca</p>	<p>Emailed June 2, 2023 to notify parties of upcoming land use permit application with a 2 week comment period. INF followed up with an email dated July 6, 2023 to notify parties of application and that additional comments can be submitted via the ORS.</p>	<p>Pre-submission engagement letter for land use permit G20H006 renewal</p>	<p>No comments provided during pre-submission engagement letter. Notified parties can submit comments or concerns through ORS.</p>	<p>n/a</p>
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****All engagement and follow up letters sent via email.***

Signature of Proponent (representative): _____

Signature of Affected Party (representative):¹⁴ _____

¹³ A summary sheet for each affected party should accompany the log (which may be a chronological list of all engagement with all parties).

¹⁴ These signatures represent agreement on the contents of the log and record, but do not necessarily imply that the parties agree on the topics that were discussed



Via Email

DISTRIBUTION LIST:

Land Use Permit Renewal Application Pre-submission Engagement: G20H006 James Creek Maintenance Camp

We wish to advise you that the Department of Infrastructure (INF) will be submitting a renewal land use permit application to the Gwich'in Land and Water Board (GLWB) for the ongoing operations at the James Creek Maintenance Camp, issued under G20H006, located at Km 14 along the Dempster Highway (NWT Highway 8).

The Department of Infrastructure will be applying for a 5 year renewal permit with no change in scope to the activities.

Prior to submitting the application to the GLWB the Department would like to engage with your organization. Any questions or concerns regarding the proposed application can be submitted by June 16, 2023 to Alexis Campbell by email at Alexis.Campbell@gov.nt.ca.

Sincerely,

Alexis Campbell
Environmental Analyst
Design and Technical Services
Department of Infrastructure

From: [Alexis Campbell](#)
Bcc: egc.director.aklavik@gmail.com; ["sao@tsigehtchic.ca"](mailto:sao@tsigehtchic.ca); Mike_greenland91@hotmail.com; ["errccoord@northwestel.net"](mailto:errccoord@northwestel.net); ["planner@gwichinplanning.nt.ca"](mailto:planner@gwichinplanning.nt.ca); ["office@grrb.nt.ca"](mailto:office@grrb.nt.ca); SSnowshoe@gwichin.nt.ca; LeighAnn.WilliamsJones@gwichintribal.ca; edo@tsigehtchic.ca; ceo@gwicheyagwichin.ca; ["gwichyarrcb@hotmail.com"](mailto:gwichyarrcb@hotmail.com); ["saoaklavik@permafrost.com"](mailto:saoaklavik@permafrost.com); bandmanager@inuviknativeband.ca; financeofficer@nihtatgwichin.ca; ["rrc@nihtatgwichin.ca"](mailto:rrc@nihtatgwichin.ca); tgcbandmanager@gmail.com; ["georginaVn@tgcouncil.ca"](mailto:georginaVn@tgcouncil.ca); ExecDirector@tgcouncil.ca; RCampbell@inuvik.ca
Subject: Pre-submission engagement for land use permit G20H006 renewal
Date: June 2, 2023 4:24:00 PM
Attachments: [Pre-Submission Engagement for Land Use Permit G20H006 Renewal.pdf](#)

Good afternoon,

Please find attached the pre-submission engagement letter for the land use permit G20H006 renewal. This land use permit covers the James Creek Maintenance activities, located at Km 14 on the Dempster Highway.

If you have any questions please let me know.

Thank you,

Mársı | Kinanāskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Mahsi

Alexis Campbell
Pronouns: she/her
Environmental Analyst
DTS - Environmental Affairs
Infrastructure
Government of the Northwest Territories

4th floor, New Government Building
PO Box 1320
5015 – 49th Street
Yellowknife, NT X1A 2L9

Phone: Tuesday – Thursday 867-767-9083 Ext. 31055 Monday & Friday 250-469-4560

On Mondays and Fridays I will be working remotely, please use the above cell phone number to contact me
www.gov.nt.ca

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From: [Alexis Campbell](#)
To: [Alexis Campbell](#)
Bcc: egc.director.aklavik@gmail.com; sao@tsigehtchic.ca; Mike_greenland91@hotmail.com; errccoord@northwestel.net; planner@gwichinplanning.nt.ca; office@grrb.nt.ca; SSnowshoe@gwichin.nt.ca; LeighAnn.WilliamsJones@gwichintribal.ca; edo@tsigehtchic.ca; ceo@gwichegwichin.ca; gwichyarrcb@hotmail.com; saoaklavik@permafrost.com; bandmanager@inuviknativeband.ca; financeofficer@nihtatgwichin.ca; rrc@nihtatgwichin.ca; tgcbandmanager@gmail.com; georginaVn@tgcouncil.ca; ExecDirector@tgcouncil.ca; RCampbell@inuvik.ca; sao@fortmcperson.ca
Subject: RE: Pre-submission engagement for land use permit G20H006 renewal
Date: July 6, 2023 10:39:00 AM
Attachments: [Pre-Submission Engagement for Land Use Permit G20H006 Renewal.pdf](#)

Good afternoon,

The Department of Infrastructure would like to follow up on the pre-submission engagement for the renewal of the James Creek Maintenance Camp, land use permit G20H006.

If you have any questions or comments please let me know, or comments can be provided on the ORS once it is uploaded.

Thank you,

Mársı | Kinanāskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Mahsı

Alexis Campbell
Pronouns: she/her
A/Manager
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From: Alexis Campbell
Sent: June 2, 2023 4:24 PM
Subject: Pre-submission engagement for land use permit G20H006 renewal

Good afternoon,

Please find attached the pre-submission engagement letter for the land use permit G20H006 renewal. This land use permit covers the James Creek Maintenance activities, located at Km 14 on the Dempster Highway.

If you have any questions please let me know.

Thank you,

Mársı | Kınanāskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Mahsı

Alexis Campbell
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Environmental Analyst
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From: [Alexis Campbell](#)
Bcc: ["jjoo@grrb.nt.ca"](mailto:jjoo@grrb.nt.ca); ["dirfinance@fortmcperson.ca"](mailto:dirfinance@fortmcperson.ca); ["financemanager@tsigehtchic.ca"](mailto:financemanager@tsigehtchic.ca)
Subject: FW: Pre-submission engagement for land use permit G20H006 renewal
Date: July 6, 2023 1:41:00 PM
Attachments: [Pre-Submission Engagement for Land Use Permit G20H006 Renewal.pdf](#)

Good afternoon,

The Department of Infrastructure would like to follow up on the pre-submission engagement for the renewal of the James Creek Maintenance Camp, land use permit G20H006.

If you have any questions or comments please let me know, or comments can be provided on the ORS once it is uploaded.

Thank you,

Mársı | Kinanāskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Mahsı

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From: Alexis Campbell
Sent: July 6, 2023 10:40 AM
To: Alexis Campbell

Subject: RE: Pre-submission engagement for land use permit G20H006 renewal

Good afternoon,

The Department of Infrastructure would like to follow up on the pre-submission engagement for the renewal of the James Creek Maintenance Camp, land use permit G20H006.

If you have any questions or comments please let me know, or comments can be provided on the ORS once it is uploaded.

Thank you,

Mársı | Kinanāskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Mahsı

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From: Alexis Campbell
Sent: June 2, 2023 4:24 PM
Subject: Pre-submission engagement for land use permit G20H006 renewal

Good afternoon,

Please find attached the pre-submission engagement letter for the land use permit G20H006 renewal. This land use permit covers the James Creek Maintenance activities, located at Km 14 on the Dempster Highway.

If you have any questions please let me know.

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