

# Land and Water Boards of the Mackenzie Valley



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## 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:	<input checked="" type="checkbox"/>	Sahtu Land and Water Board:	
	Wek'èezhìi Land and Water Board:		Gwich'in Land and Water Board:	

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:	N/A		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:	<input checked="" type="checkbox"/>	
	Water Licence – in a federal area:		

### 1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Stacey Hunchak		
Position:	Senior Landman		
Company Name:	Imperial Oil Limited		
Mailing Address:	P.O. Box 2480, Station M, 505 Quarry Park Blvd SE		
Community:	Calgary	Telephone:	587-476-4455
Prov/Terr:	Alberta	Email:	stacey.d.hunchak@esso.ca
Postal Code:	T2C 5N1	Other:	

**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:			
Name:	Esther Choi		
Position:	Project Manager		
Company Name:	Imperial Oil Limited		
Mailing Address:	P.O. Box 2480, Station M, 505 Quarry Park Blvd SE		
Community:	Calgary		
Prov/Terr:	Alberta	Telephone:	587-476-1493
Postal Code:	T2C 5N1	Email:	<a href="mailto:Esther.choi@esso.ca">Esther.choi@esso.ca</a>
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:	Intentionally left blank. See water licence application Section 11 response.		
Position:			
Company Name:			
Mailing Address:			
Community:		Telephone:	
Prov/Terr:		Email:	
Postal Code:		Other:	

X	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:	Ttheke'édélj
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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:	61.30799°	Maximum latitude:	61.535501°
Minimum longitude:	-120.54286°	Maximum longitude:	-120.685006°

NTS Map Sheet No.: Provide the map sheet number:	95H
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Land Types: Use an “X” to indicate the type(s) of the land on which the activities are proposed:

Free Hold/ Private:		Commissioner’s/ Territorial Lands:	X	Federal Land:		Municipal Land:	
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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.).

See water licence application Section 14.

## 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):	X	5(a)(i):		5(b)(i):		(SLWB and WLWB only):	
4(a)(ii):	X	4(b)(ii):	X	5(a)(ii):		5(b)(ii):			
4(a)(iii):	X	4(b)(iii):		5(a)(iii):					
4(a)(iv):	X	4(b)(iv):		5(a)(iv):	X				
4(a)(v):	X			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 (m<sup>3</sup>/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.

See water licence application Section 4.

## 9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale, any variations in the number of people that may be on site over the life of the project.

The workforce accommodations plan presently anticipates the use of a “push together” or, a modular camp. The final decision will be based on the comfort and quality of the rental units available at the time of procuring this service. A kitchen and dining facility will be included. Power will be generated by a dedicated diesel fired generator with a standby available.

The footprint of the camp will be approximately 40 meters X 15 meters. There will normally be approximately 7 meters of free area on the sides and back of the camp itself. Parking area in the front of the camp as well as room for the generator and traffic will be approximately 30 meters X 60 meters. The total area is estimated to be 77 meters X 60 meters. The anticipated camp site is approximately 500 meters setback from the nearest water course.

The person days for calendar year 2021 are estimated to be 225 and for calendar year 2022 are estimated to be 355. The capacity of the camp will be contingent on the capacity of the camp modules sourced (in progress), and the estimated number of people in camp varies from 9 to 27 per day.

**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	<b>X</b>
	No			No	

During December 2021, an ice road of sufficient thickness to support the required loads will be constructed. The access road to the site will be opened along the original road right of way and the original wellsite location opened to a sufficient size to support the drilling rig and associated materials and equipment. Clearing done will be along routes that have previously been cleared and currently have regrowth.

**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:	See water licence application section 8.
Sewage (Sanitary and greywater):	
Brush and trees:	
Overburden (Organic soils, waste material, etc.):	
Other (describe):	

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
Number	Type/Description	Size (weight in tonnes)	Proposed use
~6	bunkhouses/portable structure	43	accommodations
1	well site garbage bin	20	waste management
1	kitchen/portable structure	45	accommodations
1	400 bbl tank	28	fluid storage
1	BOP stack	40	rig equipment
1	casing/hailed on a hilboy	28	well equipment
1	cement bins/2 bins hauled on one load	28	well services
2 to 3	cementing equipment/bulker and pumper units	45	well services
1	dozer (D6T or similar)/hailed on a lowboy	47	construction equipment
~10 to 15	drilling rig/hailed to location via winch tractor	77	well services
1	fishing equipment/sea can full of various equipment	37	well services
1	floc tank	28	well services
1	camp garbage bin	20	waste management
1	grader/can likely be driven to site	20	construction equipment
1	hi-boy of barite	41	well services
~2	loaded semi-vac	32	well services
~2	loaded tri-drive vac truck	23	well services
~2	loaded tri-drive water truck	23	well services
1	mud van/typically enclosed trailer	18	well services
1	odds and ends	35	well services
~1	potable water/tank truck	23	well services
1	power tongs	5	well services
1	pressure tester	6	well services
~1	sewage truck (fully loaded)/tank truck	23	waste management
1	wellsite trailer/command centre/trailer	43	accommodations
2	wireline logging unit/truck	20	well services

### 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	10,000	Tank	Drilling Site
Diesel:	1	5,000	Tank	Camp Site
Diesel:	1	1,000	Fuel Cube	Drilling Site
Diesel: clear	1	3,000	Tank	Drilling Site
Gasoline:	1	3,000	Tank	Drilling Site
Aviation Fuel:	0	N/A	N/A	N/A
Propane:	6	400	Tank	Drilling Site
Other: (describe)				

#### 14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fuel will be delivered to site in licensed bulk haulers. The bulk haulers offloading process will be used to offload into the primary fuel storage tanks. There will be fuel storage per the listing in point 13. The primary storage facility will be the rig's fuel tank which will be approximately 15 000 liters. There will be a small number of onsite light towers and possibly an auxiliary power generator. These will require daily fueling. Transfer of fuel to these light towers will be done using a certified "fuel cube" with a nominal capacity of 1000 liters. The fuel cube is built to be handled by a front-end loader. The cube is filled from the rig storage tank and transported on the site (no offsite transport) and the small engines filled using the fuel transfer system on the fuel cube. The camp site generator is filled by the bulk hauler using their offloading process.

Depending on logistics and restriction with respect to COVID and accessing local transport fuel supplies, there may be a 5000 liter gasoline storage tank onsite for fueling of vehicles. Gasoline delivery would be by licensed bulk hauler who would fill the tank using their offloading process. Gasoline would be dispensed to vehicle using the dispensing system integrated with the gasoline tank. All tanks are certified for their use and will have drip and spill containment systems. It is possible that a similar system will be in place for diesel powered vehicles.

As the project reaches its end fuel levels will be allowed to deplete to minimize the amount of fuel remaining at the end of operations. Any fuel, of any type, remaining at the end of the program will be transferred to bulk trucks using the bulk truckers loading process to pull the fuel levels down in the tank to ensure they are at their safe and certified fuel levels.

#### 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](#).

See water licence application Section 10.

## 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:	December 2021	Completion Date:	March 2022
<p>Project fieldwork is planned to start December 2021 and be completed in March 2022 followed by a period of monitoring, if necessary. The December 2021 execution relies on all the required permits and approvals to be obtained by November 1, 2021 as this is work dependent on frozen ground conditions and winter access.</p> <p>Additionally, there have been road and border closures associated with COVID-19 prevention that may pose an additional execution challenge above what is indicated above.</p> <p>Subsequent work in following years involves cutting and capping and ongoing monitoring/reclamation work as identified in the attached plans.</p> <p>Therefore, Imperial requests the term of the licence be inclusive of the 2023 field execution season to allow execution flexibility in the case that approvals or other extenuating factors do not allow for a 2022 field execution. Additionally, Imperial asks that this licence term cover subsequent activities identified after field execution. Therefore Imperial seeks a 5 year term for this licence.</p>			
Term of Permit Requested:	Imperial requests a Type A land use permit for a 5 year term.		

## 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.

No information to provide for preliminary screening exemption. Please see Section 10 of water licence application for impacts and mitigations
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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>
<b>ABIOTIC COMPONENTS</b>		
<b>Land</b>		
Soil contamination		See water licence application Section 10.
Soil compaction		



<b>Potential Impacts</b> <i>Use an "X" to indicate which apply</i>	<b>X</b>	<b>Potential Project Impacts and Proposed Mitigations</b> <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Destabilization/erosion		See water licence application Section 10.
Change in soil structure		
Inability to support vegetation		
Other		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
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		
Changes in air quality		
Harm to living things		
Increased greenhouse gases		
Other		
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		



<b>Potential Impacts</b> <i>Use an "X" to indicate which apply</i>	<b>X</b>	<b>Potential Project Impacts and Proposed Mitigations</b> <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Direct loss or removal of habitat, dens, or nests		See water licence application Section 10.
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		
Other		
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		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights		
Other		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
Change to or loss of heritage resource		
Other		
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		

<b>Potential Impacts</b> <i>Use an "X" to indicate which apply</i>	<b>X</b>	<b>Potential Project Impacts and Proposed Mitigations</b> <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Impairment of the aesthetic quality of the land or water		See water licence application Section 10.
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.

See water licence application Section 14.

## 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. TSS 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 Tłjchq 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.

See water licence application Sections 12 & 14.

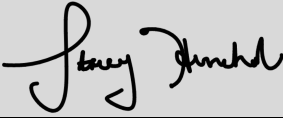
## 20. FEES

Refer to the Guide for assistance in determining relevant fees.

Type of Fee	Amount (\$)
Application fee (if applicable):	\$150
Land-use fees (for federal areas only):	\$0
Total Fees:	\$150.00

## 21. SIGNATURE

Stacey Hunchak Imperial Oil Limited	Senior Landman
Applicant's Name (print) or Company Name	Position (print)

	September 20, 2021
Signature	Date

Review the application package checklist provided in the Guide, and submit completed applications to the Regulatory Manager or Executive Director identified on the "Contact Us" pages of the respective Land and Water Board ([www.mvlwb.com](http://www.mvlwb.com), [www.wlwb.ca](http://www.wlwb.ca), [www.slwb.com](http://www.slwb.com), [www.glwb.com](http://www.glwb.com)).