

# Land and Water Boards of the Mackenzie Valley



## APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL OF LICENCE IN FEDERAL AREAS

Subsection 6(1) and Schedule III of the [Mackenzie Valley Federal Areas Waters Regulations](#)

Use an "X" to indicate which Board the Application is being made to:	Mackenzie Valley Land and Water Board:		Sahtu Land and Water Board:	<b>X</b>
	Wek'èezhìi Land and Water Board:		Gwich'in Land and Water Board:	

To complete this form, please refer to the MVLWB [Guide to the Water Licensing 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. 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 Water Licence number:	S12L8-004 (expired Oct 25 2017)		
Use an "X" to indicate if this Application is accompanied by another Application for a Water Licence in a non-federal area and/or a Land Use Permit.	Water Licence:		
	Land Use Permit:		<b>X</b>

### 1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Imperial Oil Resources N.W.T Limited (attn.: Murray Funk/Darren Blanchard)		
Position:	Maintenance and Logistics Foreman		
Mailing Address:	Mail Bag 5000		
Community:	Norman Wells	Telephone:	8675878059/8675878038
Prov/Terr:	N.W.T	Email:	Murray.a.funk@esso.ca/Darren.l.blanchard@exxonmobil.com
Postal Code:	X0E 0V0	Other:	Foremen are on alternating shifts

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

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

Use an “X” to indicate if this information is the same as Item 1 above:			
Name:	Imperial Oil Resources Ltd. (attn. Jacki Costley)		
Position:	Environment and Regulatory Advisor		
Mailing Address:	P.O Box 2480, Station “M”		
Community:	Calgary	Telephone:	5874762193
Prov/Terr:	AB	Email:	<a href="mailto:Jaclyn.b.costley@esso.ca">Jaclyn.b.costley@esso.ca</a>
Postal Code:	T2P3M9	Other:	Cell 5875799577

## 3. LOCATION OF PROJECT

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

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 [Guideline for Geographic Information Systems \(GIS\) Submission Standard](#) for providing geographic information.

Artificial Island #4 (Ekwe)	Minimum latitude:	-126.9102	Maximum latitude:	65.2723	
Artificial Island #5 (Iteh K’ee)	Minimum longitude:	-126.9043	Maximum longitude:	65.2682	
Artificial Island #6 (Little Bear)	Minimum longitude:	-126.8778	Maximum longitude:	65.2651	

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

096E

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

Free Hold/ Private:		Commissioner’s/ Territorial Lands:		Federal Land:	<input checked="" type="checkbox"/>	Municipal Land:	
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## 4. DESCRIPTION OF PROJECT

Describe your proposed activities in the grey field provided below and contact Board staff to determine whether additional information will be required. For proposed amendments to authorized activities, specify: the nature of the amendment, the condition(s) to be amended, and the rationale for the amendment.

After the construction of the artificial islands, sandbars formed downstream of islands 4, 5, 6 Imperial Oil Resources N.W.T. Limited is seeking permission to remove sand from each of these sandbars for use within its operation. Sand is used within the operation for the following purposes

- traction control on roads, parking lots, walk ways, well sites, etc.;
- backfill for excavations (i.e. excavation for pipeline repair, line bedding, and reclamation work); and
- lined berm construction
- bank stabilization/maintenance

The volume of sand needed varies each year depending on work activities and backfill requirements and for this reason Imperial is unable to provide a forecast of sand volume requirements for future years.

For the 2021 year, Imperial is applying to remove up to 7,000 m<sup>3</sup> of sand.

No water use, drilling, or reclamation activities will be required for this scope of work.

## 5. TYPE OF UNDERTAKING

Refer to Schedule II of the [Mackenzie Valley Federal Areas Waters Regulations](#). Use an "X" to indicate which one type of undertaking applies:

1	Industrial	
2	Mining and milling	
3	Municipal	
4	Power	
5	Agriculture	
6	Conservation	
7	Recreation	
8	Miscellaneous	<b>X</b> (describe): removal of artificial accretions of sand for maintenance

## 6. WATER USE CRITERIA

Refer to Schedules IV to VIII of the [Mackenzie Valley Federal Areas Waters Regulations](#). Use an "X" to indicate which criteria apply:

	Type B	Type A
To obtain water		
To cross a watercourse		
To modify the bed or bank of a watercourse		
Flood control		
To divert water		
To alter the flow of, or store, water		
Other	<b>X</b>	(describe): watercourse training removal of artificial accretions.

## 7. PROPOSED QUANTITY OF WATER INVOLVED

Describe the purpose of each proposed water use, name, and type (e.g., lake, river) of the water source, the location, and the quantity of water that would be used in the grey fields below. Add more rows as needed.

Purpose of Water Use	Name and Type of Water Source	Location	Geographic Coordinates		Proposed Water Use Volume/Rate, including units
			Latitude	Longitude	

n/a	n/a	See Maps	n/a	n/a	n/a

For each water source identified in the table above, provide a comparison of total proposed water use to the available capacity. Add more rows as needed.

Water Source	Capacity of Water Source, including units	Other Users of the Water Source	Comparison of Total Proposed Water Use to Available Capacity
n/a	n/a	n/a	n/a

## 8. PROPOSED WASTE MANAGEMENT METHODS

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

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

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.

Municipalities: Complete the relevant Operations and Maintenance Plans using the available [Templates](#) and include them in your Application Package. Please refer to Sections 4-8 of Environment and Climate Change Canada's [Solid Waste Management for Northern and Remote Communities: Planning and Technical Guidance Document](#).

EQC and AEMP: For activities that involve the deposit of waste into water, provide proposed effluent quality criteria (EQC) in accordance with the MVLWB [Water and Effluent Quality Management Policy](#) and MVLWB/GNWT [Guidelines for Effluent Mixing Zones](#). Please refer to the MVLWB/GNWT [Guidelines for Effluent Mixing Zones](#) when mixing zones are being considered. Please refer to the MVLWB/GNWT [Guidelines for Aquatic Effects Monitoring Programs](#) for more information regarding the development of AEMP programs.

Waste management for the operation is outlined in Norman Wells Waste Management Plan – S13L1-007 located here - <http://registry.mvlwb.ca/Documents/S13L1-007/S13L1-007%20-%20Imperial%20Oil%20%202015%20Waste%20Management%20Plan%20-%20Jul%203%2015.pdf>

## 9. EXISTING WATER USERS AFFECTED BY THIS PROJECT

Describe pre-Application engagement efforts with any existing water users and associated possible claims for water compensation or compensation agreements. Include the names and locations of existing water users (e.g., persons or organizations) in the grey fields below. An additional table should be added for each water user.

Name:	
Community:	
Province/Territory:	
Describe Engagement Completed:	None anticipated as required – no anticipated users to be affected by this scope of work

## 10. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

Using the Impact-Mitigation Table below, or the more detailed Table in Appendix F 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. Applicants for type A water licences must use the detailed Table in the Guide; other applicants may choose either the Table below or the Table in the Guide. 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.

**\*\*Previous screening has been completed to support Water Licence S12L8-004 (expired Oct 25 2017), activities have not changed from the previous permit\*\***

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	X	Equipment will be cleaned and fueled with appropriate spill mitigations
Soil compaction	X	Work will be done under frozen conditions or with rig matting if significant compaction is anticipated
Destabilization/erosion	X	Work will be completed away from water and land will be stabilised once complete
Change in soil structure		
Inability to support vegetation		
Other		
<b>Water</b>		
<b>Groundwater</b>		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		
<b>Permafrost</b>		
Loss or change in extent		

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>
Changes in seasonal fluctuations		
Change in persistence		
Other		
<b>Surface Water</b>		
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		
<b>Air</b>		
Changes in air quality		
Harm to living things		
Increased greenhouse gases		
Other		
<b>BIOTIC COMPONENTS</b>		
<b>Vegetation</b>		
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>Terrestrial Wildlife Habitat</b>		
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		
Other		
<b>Aquatic Habitat</b>		

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>
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		
<b>CULTURAL COMPONENTS</b>		
<b>Wildlife Harvesting</b>		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights		
Other		
<b>Cultural Integrity and Heritage Resources</b>		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
Change to or loss of heritage resource		
Other		
<b>Social and Economic Well-being</b>		
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		

**Spill Contingency Plan:** Include your Spill Contingency Plan in your Application Package, if applicable, or for small-scale activities, 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](#).

Imperial will ensure that all equipment used during sand removal is clean, inspected daily and equipped with spill containment kits. Daily inspections will check for leaks, grease, oil, and mud to prevent deposition of foreign substances. All vehicle and/or equipment maintenance will be completed above the ordinary high water mark.



Refueling of equipment will be performed in designed areas on the mainland of Imperial's site. Smaller equipment (e.g. light towers, etc.) not required to be refueled on site will have adequate spill mitigation in place. No fuel will be stored below ordinary high water mark.

All light duty vehicles and end dumps will be stored above ordinary high water mark at the end of the day and overnight when necessary. The excavator may be located below ordinary high water mark at the end of the day; however, it will be moved to a safe and secure place, at least 10 meters away from the water's edge and a containment tray will be in place.

Once sand removal is completed all equipment will be removed.

Further information is outlined in Imperial Norman Well's Spill Contingency and Response Plan

#### 11. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

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

Name:	Josh Prince		
Responsibilities:	Sub-Contractor Management		
Company Name:	Fluor Driver		
Mailing Address:	1205 5 St		
Community:	Nisku	Telephone:	780-215-5347
Prov/Terr:	Alberta	Email:	jprince@fdindustrial.com
Postal Code:	T9E 7L6	Other:	Bdriver@fdindustrial.com

Name:	David Hodgson		
Responsibilities:	Excavation & Hauling		
Company Name:	HRN Contracting LTD		
Mailing Address:	Box 329		
Community:	Norman Wells	Telephone:	867-587-2168
Prov/Terr:	NWT	Email:	Hci4@theedgenw.ca
Postal Code:	X0E 0V0	Other:	

#### 12. STUDIES UNDERTAKEN TO DATE

In the grey field below list any relevant studies that support the proposed activities and include them in your Application Package.

n/a
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### 13. 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:	Jan 1 2021	Completion Date:	Jan 1 2026
Imperial is requesting a 5 year term to complete periodic sand hauling as needed for the operation			
Term of Licence Requested:	5 years		

### 14. 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](#).

Eligibility: Contact federal, territorial, and Indigenous governments, and other parties to ensure all appropriate authorizations have been obtained or are in the process of being obtained. Obtain permission from the landowner(s), if necessary (e.g., obtain and reference licences of occupation, leases, access authorizations, etc.) and attach it/them to the Application.

Land Use Plans: Contact the applicable Land Use Planning Board or the Tłıchǫ 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 Sahtu Land and Water Board. Other applicants are strongly encouraged to include TEK/TK.

Facilities: Include the supporting information required under subsection 6(2) of the [Mackenzie Valley Federal Areas Waters Regulations](#) if the project includes the following: dam(s); storage reservoir(s); watercourse crossing(s); camp(s) or lodge(s); use of water for industrial use or mining and milling; deposit of waste; or handling or storage of petroleum products or hazardous materials.

Closure and Reclamation: Describe your plans for closure and reclamation, including any temporary closures and seasonal shutdowns. Include your Closure and Reclamation Plan in your Application Package, or for small-scale activities, describe the proposed activities in the grey field provided below. Please also refer to the MVLWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#) and Environment and Climate Change Canada's [Solid Waste Management for Northern and Remote Communities: Planning and Technical Guidance Document](#).

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

**Financial Capacity:** Provide information relating to your financial capacity, as outlined in paragraph 72.03(5)(d) of the Mackenzie Valley Resource Management Act. Please note this information will be required by the Board prior to issuance.


N/A - Sand removed from the sandbars is replaced naturally through water flow and deposition of material during break up.

#### 15. FEES

Refer to the following guidance for assistance with determining relevant fees: Water Use Fee Policy; Water Use Fee Calculator; and Water Licence Application Fee, Water Use Fee, and Security Deposit Information.

Type of Fee	Amount (\$)
Application fee:	\$30.00
Water use fee deposit:	\$
Total Fees:	\$30.00

#### 16. SIGNATURE

Darren Blanchard IMPERIAL OIL RESOURCES N.W.T. Limited	Maintenance and Logistics Foreman
Applicant's Name (print) or Company Name	Position (print)
	Feb 1, 2021
Signature	Date

Please 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)).