

# Land and Water Boards of the Mackenzie Valley



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

Subsection 5(1) and Schedule C of the [Waters Regulations](#)

Use an "X" to indicate which Board the Application is being made to:	Mackenzie Valley Land and Water Board:	<b>X</b>	Sahtu Land and Water Board:	
	Wek'èezhii 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:			
Use an "X" to indicate if this Application is accompanied by another Application for a Water Licence in a 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:	Paramount Resources Ltd. (Terence Hughes)		
Position:	Regulatory and Community Affairs Advisor		
Mailing Address:	Suite 2800, 421 7 <sup>th</sup> Avenue SW		
Community:	Calgary	Telephone:	403-206-3859
Prov/Terr:	Alberta	Email:	Terence.hughes@paramountres.com
Postal Code:	T2P 4K9	Other:	

### 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:	X		
Position:	X		
Mailing Address:	X		
Community:	X	Telephone:	403-290-3600
Prov/Terr:	X	Email:	info@paramountres.com
Postal Code:	X	Other:	

### 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.

Minimum latitude:	60°00'00"	Maximum latitude:	60°00'20"
Minimum longitude:	123°15'00"	Maximum longitude:	123°30'00"

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

85C

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:	X	Federal Land:		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.

Monitoring, abandonment of wells (F-36 and I-02) and reclamation (where required) are the main activities. Water use at maximum would be 26,000 m3.  
See attachment A for greater detail

### 5. TYPE OF UNDERTAKING

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

1	Industrial	X
2	Mining and milling	
3	Municipal	

4	Power		
5	Agriculture		
6	Conservation		
7	Recreation		
8	Miscellaneous		(describe):

## 6. WATER USE CRITERIA

Refer to Schedules D to H of the [Waters Regulations](#). Use an "X" to indicate which criteria apply:

	Type B	Type A	
To obtain water	X		
To cross a watercourse	X		
To modify the bed or bank of a watercourse			
Flood control			
To divert water			
To alter the flow of, or store, water			
Other			(describe):

## 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	
Access Construction	Mea Gho Cho Lake / Borrow pit	Liard South Project Area	60°02'19.6"	123. 31' 8.9"	600m <sup>3</sup> /km
Lease & Campsite Construction	Mea Gho Cho Lake / Borrow pit	F-36, I-02 and potential campsite	60° 5' 27.2" 60° 11' 34.1"	123° 22' 6.6" 123° 30' 24.6"	1500m <sup>3</sup> /well site
Abandonment	Mea Gho Cho Lake / Borrow pit	F-36 I-02	60° 5' 27.2" 60° 11' 34.1"	123° 22' 6.6" 123° 30' 24.6"	10 m <sup>3</sup> /well
Camp - Domestic Use	Mea Gho Cho Lake / Borrow pit	Camp Site	60°00'08.5"	123°15'51.7"	50m <sup>3</sup> /well

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

	19,000m3	Unknown	Golder (1999) assessed the impact of a 19,000m <sup>3</sup> withdrawal, staggered through a winter season, from Mea Gho Cho Lake and found that the residual impact of water drawdown would be insignificant
Borrow Pits	Vary by year up to 7,000m3	Unknown.	All

**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.

See attached waste management plan

**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:	

**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.

<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>
<b>ABIOTIC COMPONENTS</b>		
<b>Land</b>		
Soil contamination	X	Spills could occur. See Spill contingency plan
Soil compaction	X	Ice roads and ice pads will be built to depth to alleviate compaction issues
Destabilization/erosion		
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		
Changes in seasonal fluctuations		
Change in persistence		
Other		
<b>Surface Water</b>		
Water flow or level changes (permanent, temporary, seasonal)	X	Temporary change to Water source lake
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	X	Brushing will occur to open access
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species	X	Equipment will be cleaned and inspected prior to entering the project area. NWT contractors will be used where available and appropriate

<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>
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation	X	Ice road and ice pads will compact some existing revegetation on the sites
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	X	Increase in motor vehicles in the area. Speed limits will be in place and project personnel will be instructed to be mindful of wildlife.
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	X	Project personal will be instructed not to harm, harass or engage wildlife.
Other		
<b>Aquatic Habitat</b>		
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	X	Increased activity in the area for a short period of time. Long term outcomes will support traditional use activities (removal of industrial development)
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>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>
<b>Social and Economic Well-being</b>		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)	X	Short term seasonal economic opportunities related to seasonal work.
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](#).

See attached Spill Contingency 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:	To Be Determined		
Responsibilities:			
Company Name:			
Mailing Address:			
Community:		Telephone:	
Prov/Terr:		Email:	
Postal Code:		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.

See attachment





**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:	October 5, 2021	Completion Date:	October 4, 2026
Abandonment activities will occur prior to required dates of the Office of the Regulator of Oil and Gas Operations. Reclamation and monitoring could occur throughout the term.			
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 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 Sahtu Land and Water Board. Other applicants are strongly encouraged to include TEK/TK.

Facilities: Include the supporting information required under subsection 5(2) of the [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 26(5)(d) of the [Waters Act](#). Please note this information will be required by the Board prior to issuance.

Paramount Resources Ltd. (“Paramount”) is a publicly traded Canadian company on the TSX under the stock symbol POU. Additionally, Paramount currently has several securities posted in support of approvals from the Mackenzie Valley Land Water Board including the current Liard South Licence and Permit. Further, Paramount has posted dozens of securities over its operating history in the Northwest Territories. Given the current state of the project Paramount is of the belief that the existing security posted for the project is sufficient and should be brought forward for the applied for LUP and WL. Once the abandonment of I-02 and the cut and cap of F-36 Paramount will submit an updated estimate.


**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:	\$360.00
<b>Total Fees:</b>	<b>\$390.00</b>

**16. SIGNATURE**

Paramount Resources Ltd. (Terence Hughes)	Regulatory and Community Affairs Advisor
Applicant’s Name (print) or Company Name	Position (print)

	March 12, 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)).