

# 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:	<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 LWB [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 LWB 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 type="checkbox"/>	N/A
	Water Licence – in a federal area:	<input type="checkbox"/>	N/A

### 1. NAME AND CONTACT INFORMATION – APPLICANT

Project Name:	PHASE I AND PHASE II ENVIRONMENTAL SITE ASSESSMENT DFO, Lots 169 and 502, Fort Simpson, Northwest Territories		
Applicant's Name:	Shaun Michael Lamoureux, P.Eng. PMP (on behalf of Public Services and Procurement Canada)		
Position:	Senior Environmental Project Manager		
Company Name:	SLR Consulting Canada Ltd.		
Mailing Address:	8 West St. Paul Street, Kamloops, BC Canada		
Community:	Kamloops	Telephone:	1 250 819 9677 or 1 250 682 5051
Prov/Terr:	British Columbia	Email:	slamoureux@slrconsulting.com
Postal Code:	V2C 1G1	Other:	N/A

## 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:		<b>X</b>	
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:	Colin Charlton		
Position:	General Manager		
Company Name:	Sub Arctic Geomatics Ltd.		
Mailing Address:	226 Utsingi Drive		
Community:	Yellowknife	Telephone:	867-445-9801
Prov/Terr:	NT	Email:	sas@sub-arctic.ca
Postal Code:	X1A 0E7	Other:	N/A

Name:	Jennifer Grandguillot		
Position:	Project Manager		
Company Name:	Great Slave Drilling Ltd.		
Mailing Address:	15A McMeekan Crescent		
Community:	Hay River	Telephone:	(867) 875-2922
Prov/Terr:	NT	Email:	jen@greatslavedrilling.com
Postal Code:	X0E 0R7	Other:	N/A

Use an "X" to indicate that contractor and/or subcontractor information is not available at this time.

**4. LOCATION OF ACTIVITIES**

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

Traditional Place Name:

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 LWB [Geospatial Data Submission Standards](#) for providing geographic information.

Minimum latitude:	61.868	Maximum latitude:	61.870
Minimum longitude:	-121.358	Maximum longitude:	-121.363

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

GIS Data: Use an "X" to indicate if GIS data is attached. 

Attached:	<input type="checkbox"/>	Not Available:	<input checked="" type="checkbox"/>
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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:	<input type="checkbox"/>	Commissioner's/ Territorial Lands:	<input type="checkbox"/>	Federal Land:	<input checked="" 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):	<input type="checkbox"/>	18(a)(ii):	<input type="checkbox"/>	18(a)(iii):	<input type="checkbox"/>	18(b):	<input checked="" type="checkbox"/>
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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.).

SLR Consulting Ltd. has a *Call-Up Against a Standing Offer* (form of contract, see Attachment 2) signed by the federal branch Public Works and Government Services Canada to complete the requested environmental assessment work on the Department of Fisheries and Oceans sites in Fort Simpson, NT. The contract is effective from August 14, 2023 to November 30, 2023. See attachment

## 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):	X	(SLWB and WLWB only):	
4(a)(ii):		4(b)(ii):		5(a)(ii):		5(b)(ii):			
4(a)(iii):		4(b)(iii):		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. For each and all proposed water uses, 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)).

Proposed work on sites with legal descriptions as follow:

### Lot 169, Fort Simpson (between Mackenzie Drive and the Mackenzie River)

1. Surveying of property lines so the boundaries are clearly marked.
2. Drilling of five boreholes to approximately 5m depth to collect soil samples.
3. Three of the boreholes will be completed as monitoring wells to collect groundwater samples.

### Lot 502, Fort Simpson (water lot)

1. Surveying of property lines so the boundaries are clearly marked.
2. Collection of three sediment samples form the river shore at a depth of 0.3m.
3. Collection of one surface water sample from the Mackenzie River.

The purpose of the sampling is environmental assessment for due diligence

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 environmental assessment work will look at the entire lots: Lot 169: 0.88ha; Lot 502: 1.56ha.  
The surface disturbance from the borehole drilling will be less than 0.0001ha.

## 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.

No camp is required; accommodations are to be provided by local businesses.

The site work is expected to last 5 days, with a maximum of 5 people on site at any given time. Assume 20 person-days in 2023.

## 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	<b>X</b>		No	<b>X</b>

The project is accessible by municipal/territorial roads and therefore does not require any additional road construction.

## 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 LWB [Guidelines for Developing a Waste Management Plan](#).

Waste Type	Management Method(s)
Garbage:	General non-hazardous waste collected in garbage bags and disposed of at municipal landfill or property garbage bins. Recycling, if possible, will occur.
Sewage (Sanitary and greywater):	No sewage will be disposed of at the site. Workers will return to the nearby hotel for use of existing sanitary and domestic water.
Brush and trees:	Minor grass or brush trimming may be required. Any resulting branches will be spread to ground and left to decompose.
Overburden (Organic soils, waste material, etc.):	Soil from the boreholes will be stored in 20L pails on-site until laboratory results are available.
Groundwater well purge water	Purge water, if deemed to be contaminated will be collected in a tote and transported off-site for disposal. Anticipate less than 10 L of water, if any, depending upon subsurface conditions
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
1	Track mounted auger drill rig (picture in Attachment 3)	1.86 tons	Boreholes
2	Pick-up truck	2 to 3 tons	Transportation to/from site
1	Trailer	N/A	Transportation to/from site

## 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	230L	Tidy tank	Pick-up truck
Gasoline:	N/A			
Aviation Fuel:	N/A			
Propane:	N/A			
Other: (describe)	N/A			

## 14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

All equipment will be fueled off-site at an approved fueling location prior to work on-site. Due to the short duration of the project a single fueling of the equipment will suffice to complete the works. In the unlikely event that fueling is required, a truck mounted tidy tank, with drip trays will be used to transfer fuel. Spill response equipment including adsorbent pads and boom material will be made ready prior to any transfer. No re-fueling will occur within 20 m of water line. Move drill to appropriate location prior to re-fueling.

## 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](#).

The tidy tank is made of heavy steel gauge and designed for the transport of diesel fuel. Pick-up trucks contain spill kits. Portable drip trays and appropriately sized fuel transfer hoses with electric pump will be used when refuelling the drill rig. The pump has an automatic shut-off nozzle to prevent overfilling. The rig is inspected daily for fluid levels and leaks before operation.

Hydrocarbon absorbent rags and a section of boom will be available on-site during work. If drill near water boom placed between rig and water line.

## 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:	September 1, 2023	Completion Date:	November 30, 2023
The investigation on the site are expected to last less than 5 days, ideally to be scheduled for some time in September depending on forest fires (permitting, access to gear, road closures, flights to Yellowknife, etc.)			
Term of Permit Requested:	September 1 to November 30, 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.

<p>The purpose of the project is to assess environmental impacts from previous activities to the wharf site. The site is currently vacant and overgrown; there are no negative environmental impacts anticipated from accessing the site for environmental assessment work and collecting soil samples using a small auger drill rig.</p> <p>The project employment opportunity for a local drilling contractor from Hay River, NT, which is a positive social and economical impact.</p>
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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. Use landscape orientation if preferred.

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	N/A	
Soil compaction	N/A	
Destabilization/erosion	N/A	
Change in soil structure	N/A	
Inability to support vegetation	N/A	
Other	N/A	

<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>Water</b>		
<b>Groundwater</b>		
Water table alteration	N/A	
Infiltration changes	N/A	
Changes in water quality	N/A	
Temperature changes	N/A	
Other	N/A	
<b>Permafrost</b>		
Loss or change in extent	N/A	
Changes in seasonal fluctuations	N/A	
Change in persistence	N/A	
Other	N/A	
<b>Surface Water</b>		
Water flow or level changes (permanent, temporary, seasonal)	N/A	
Drainage pattern changes	N/A	
Temperature changes	N/A	
Changes in water quality	N/A	
Wetland impairment	N/A	
Changes to aquatic habitat (see Biotic section below)	N/A	
Other	N/A	
<b>Air</b>		
Changes in air quality	N/A	
Harm to living things	N/A	
Increased greenhouse gases	N/A	
Other		
<b>BIOTIC COMPONENTS</b>		
<b>Vegetation</b>		
Direct loss of vegetation	N/A	
Loss of Species at Risk or may-be-at-risk plants	N/A	
Change in species composition	N/A	
Introduction of non-native (invasive) species	N/A	
Effects on plant health (dust, metals, toxins)	N/A	
Increased risk of fire	N/A	
Compaction of vegetation	<b>X</b>	
Other	N/A	
<b>Terrestrial Wildlife Habitat</b>		
Direct loss or removal of habitat, dens, or nests	N/A	
Loss or removal of keystone species and/or Species at Risk habitat	N/A	
Fragmentation of wildlife corridor	N/A	
Direct injury or mortality	N/A	



<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>
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging	N/A	
Effects on population abundance	N/A	
Change in species diversity	N/A	
Effects on wildlife health (toxins, metals, etc.)	N/A	
Changes to migratory movement patterns	N/A	
Changes to predator-prey relationships	N/A	
Human-wildlife conflicts	N/A	
Other	N/A	
<b>Aquatic Habitat</b>		
Breeding disturbances	N/A	
Change in species diversity	N/A	
Effects on health (toxins, metals, sediment, etc.)	N/A	
Changes to migratory movement patterns	N/A	
Changes to predator-prey relationships	N/A	
Effects on population abundance	N/A	
Change in species diversity	N/A	
Other	N/A	
<b>CULTURAL COMPONENTS</b>		
<b>Wildlife Harvesting</b>		
Loss or reduction in game species populations	N/A	
Effects on traditional land use, subsistence, and harvesting rights	N/A	
Other	N/A	
<b>Cultural Integrity and Heritage Resources</b>		
Change to or loss of cultural integrity	N/A	
Change to or loss of traditional lifestyle	N/A	
Change to or loss of heritage resource	N/A	
Other	N/A	
<b>Social and Economic Well-being</b>		
Increased human health hazard and risk	N/A	
Economic opportunities or losses (employment, training)	X	<b>Employing local contractors with local hires and use of local accommodations and meals – preferably FN owned establishments</b>
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans	N/A	
Impairment of the recreational or traditional uses of the land or water	N/A	
Impairment of the aesthetic quality of the land or water	N/A	
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)	N/A	

<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>
Other	N/A	

## 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 LWB/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 LWB/GNWT/CIRNAC [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.

The environmental investigation work will be completed within approximately 5 days at the site. Three monitoring wells will be installed for collection of groundwater samples. Closure and reclamation plan is deemed not applicable.

## 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 LWB [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 for assistance in interpreting the requirements of the relevant land use plan(s). Include a Land Use Plan Conformity Table, or if applicable, written confirmation of conformity from the Tłı̨chǫ Government, in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

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

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

The project is for environmental impacts assessment on federal land. The project is not expected to affect any parties; hence an engagement plan is not deemed necessary. A sign will be posted on the property informing passerby of environmental work being conducted for due-diligence, and the field supervisor is willing to engage with or refer any member of the community that may have questions.

**20. FEES**

Refer to the Guide for assistance in determining relevant fees.

Type of Fee	Amount (\$)
Application fee (if applicable):	Federal organization no fee
Land-use fees (for federal areas only):	No additional \$
Total Fees:	0\$

**21. SIGNATURE**

SLR Consulting (Canada) Ltd. by Shaun Michael Lamoureux, P.Eng. PMP on behalf of Public Services and Procurement Canada (PSPC) and Fisheries and Oceans Canada (DFO)	SLR – Senior Environmental Project Manager
Applicant’s Name (print) or Company Name	Position (print)

	August 31, 2023
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)).