

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

If applicable, provide the existing or current Land Use Permit file number:	MV2023X0025		
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:	Lisa Young		
Position:	Acting Regional Director, Real Property, Office of Environmental Coordination, Safety, Security and Emergency Services (RPESS)		
Company Name:	Fisheries and Oceans Canada (DFO)		
Mailing Address:	520 Exmouth Street, Sarnia, ON		
Community:	Sarnia	Telephone:	519-383-1971
Prov/Terr:	Ontario	Email:	Lisa.Young@dfo-mpo.gc.ca
Postal Code:	N7T 8B1	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:		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:	Shaun Michael Lamoureux, P.Eng. PMP		
Position:	Senior Environmental Project Manager		
Company Name:	SLR Consulting Canada Ltd.		
Mailing Address:	8 West St. Paul Street, Kamloops, BC Canada		
Community:	Kamloops	Telephone:	250-819-9677 or 250-682-5051
Prov/Terr:	British Columbia	Email:	slamoureux@slrconsulting.com
Postal Code:	V2C 1G1	Other:	N/A

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: Łíídlıı Kúé (Fort Simpson)

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

REFER TO ATTACHMENT 2 SITE LOCATION AND LAYOUT FIGURES

NTS Map Sheet No.: 95H

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

Attached:		Not Available:	X
-----------	--	----------------	---

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:		Federal Land:	X	Municipal Land:	
------------------------	--	---------------------------------------	--	---------------	---	-----------------	--

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
-----------	--	------------	--	-------------	--	--------	---

6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

REFER TO ATTACHMENT 8 PSPC ACCESS AND PERMISSION LETTER

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):		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

REFER TO ATTACHMENT 2 PROJECT LOCATION AND LAYOUT FIGURES

The proposed scope of work is a Phase I ESA, Species at Risk Risk (SAR desktop study) and annual iterative Phase II ESI/DSI will be conducted at the site:

2024 OPEN WATER SEASON YEAR ONE WORK

- Surveying of property lines;
- Utility locates.
- Drilling of five boreholes to depths of approximately 5 m to collect soil samples, with minimum three boreholes completed as monitoring wells.
- Groundwater well development, purging and sampling

Lot 502 – Water Lot

- Surveying property lines;
- Collection of three sediment samples from the river shore at a depth of 0.3 m; and,
- Collection of one surface water sample.

POTENTIAL FUTURE ITERATIVE PHASE II ESA/DSI WORK – YEARS 2 to 5

Lot 169 – Land Lot

- Drilling of additional step out boreholes to depths of approximately 5 m to collect soil samples, with select boreholes completed as monitoring wells.
- Archeological digs and/or studies if triggered by exploratory excavation work or site observations;
- Hydrogeological testing such as well drawdown and response testing;
- Ecological/Biological bird surveys or SAR assessment based on site conditions and observations of any SAR species.
- Minor excavations and off-site treatment: Small scale <50 m³ removal of hydrocarbon soils and meeting the requirements of acceptance for KBL.
- Disposal of drill cuttings off-site at KBL.
- Disposal of groundwater purge and development volumes
- Existing or updated spill response and waste management plans
- Potential training of local indigenous employees
- Decommissioning groundwater wells
- Groundwater well development, purging and sampling.
- Test pitting for soil sampling using a small local backhoe or excavator.

Lot 502 – Water Lot

- Collection of sediment samples from the river shore at a depth of 0.3 m
- Collection of surface water samples.
- Fish or aquatic studies.

The work does not include any major remedial works other than the disposal of soil generated from assessment activities and a small remedial soil dig for hydrocarbons of less than 50 m³. Any major remedial works resulting from the assessment work under this permit will need to have a separate land use permit and/or water license.

Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

REFER TO ATTACHMENT 2 PROJECT LOCATION AND LAYOUT FIGURES

The work is to be completed the land lot which comprises primarily disturbed fills and sandy/gravelly shoreline. The majority of work is to be completed on the land lot which is 9,300 m². A conservative estimate of 500 m² of disturbed land is anticipated in relation to test pitting and heavy equipment access.

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. Similar extents of work anticipated, if required, in future years Phase II ESA iterative seasonal assessment work.

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

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:

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 (tonnes)	Proposed use
1	Small to medium track mounted drill rig	1 to 5	Boreholes and groundwater wells
2	Pick-up truck	1 to 3	Employee and small equipment/tool transportation
1	Trailer	1 tonne	Mobilize/demobilize equipment
1	Small excavator or rubbered tired backhoe	10 to 20	Test pitting. Minor hydrocarbon soil removal <50 m ³
1	Tandem dump truck	12 to 15	Transporting excavated soils to Off-site Disposal facility. will use the existing

			municipal roads to load and transport the soil.
--	--	--	---

13. FUEL

Identify all fuel types proposed to be used.

Type of Fuel	# of Containers	Container Capacity (L)	Container Type	Proposed storage or staging location(s)
Diesel:	1	230	Tidy tank	Pick-up truck not stored or staged on-site
Gasoline:	1	30	CSA approved jerry can + small generator tank.	Fuel for generator to power low flow hydrolift pump. Stored in truck and within containment

REFER TO ATTACHMENT 6 SPILL CONTINGENCY PLAN

14. METHODS OF FUEL TRANSFER

REFER TO ATTACHMENT 6 SPILL CONTINGENCY PLAN

15. SPILL CONTINGENCY PLAN

REFER TO ATTACHMENT 6 SPILL CONTINGENCY 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:	May 15, 2024	Completion Date:	May 15, 2029
Project activities are planned to occur during the open water seasons Late May to October, when the Liard ferry is active			
Term of Permit Requested:	Five years – to consider 2024 open water season work and potential future iterative seasonal phase 2 ESA/DSI work.		

17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

[REFER TO ATTACHMENT 10 MITIGATION TABLE](#)

18. CLOSURE AND RECLAMATION

Closure Reclamation Plan:

This project is a small-scale low complexity environmental assessment and works. A detailed stand-alone reclamation plan is not considered to be necessary. Anticipated reclamation works comprise:

- surface scarification, amendment and seeding of soil potentially compacted by heavy equipment.
- Backfilling excavation with local unimpacted soils and seeding/amending any sod that was removed during the excavation.
- Capping off any old fuel lines.
- Repaving section of asphalt removed at 9818 101st Street.
- Minor regrading as required to ensure that final grade is appropriately slope away from structures and to drainage locations.
- Completed annually prior to demobilization

Closure Cost Estimate:

[REFER TO ATTACHMENT 9 CLOSURE COST ESTIMATE](#)

19. ADDITIONAL SUPPORTING INFORMATION

Engagement:

[REFER TO ATTACHMENT 4 ENGAGEMENT PLAN](#)

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\$

21. SIGNATURE

Lisa Young	Acting Regional Director, Real Property, Office of Environmental Coordination, Safety, Security and Emergency Services (RPESS), Fisheries and Oceans Canada (DFO)
Applicant's Name (print) or Company Name	Position (print)

Young, Lisa <small>Digitally signed by Young, Lisa DN: C=CA, O=GC, OU=DFO-MPO, CN="Young, Lisa" Reason: I have reviewed this document Location: Date: 2024.03.21 09:50:59-04'00' Foxit PDF Editor Version: 13.0.1</small>	
Signature	Date