

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:	X	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. 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](#)



Received: April 9, 2024

File #: MV2024L8-0005

Copied to: TM/Reg

If applicable, provide the existing or current Water Licence number:	N/A		
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:		

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Dane Cruickshank
Position:	Senior Project Officer, Structures Section - Bridges
Company Name:	Government of the Northwest Territories, Department of Infrastructure
Mailing Address:	2nd floor, Tatsaotjne Building 5015 49th Street

	PO Box 1320		
Community:	Yellowknife	Telephone:	867-767-9086 Ext. 31108
Prov/Terr:	NT	Email:	Dane_Cruickshank@gov.nt.ca
Postal Code:	X1A 2L9	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 this information is the same as Item 1 above:		X	
Name:			
Position:			
Company Name:			
Mailing Address:			
Community:		Telephone:	
Prov/Terr:		Email:	
Postal Code:		Other:	

3. LOCATION OF PROJECT

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

Traditional Place Name:

Ttjets'ek'ehdeli

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:	61.310287	Maximum latitude:	61.632861
Minimum longitude:	-121.424683	Maximum longitude:	-120.65871

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

95H6

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 the 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.

The Project involves the replacement of the existing Jean Marie River Bridge with a new single span bridge. Activities involved in replacing the existing bridge include:

- Construction of a temporary detour bridge
- Demolition, disposal and reclamation of the existing bridge
- Construction of the new single span bridge.

Construction of a detour bridge entails:

- Use of machinery for site clearing and preparation- grading, earth movement
- Construct approaches for the detour bridge
- Preparing foundations out of stream
- Installing prefabricated bridge
- Dismantlement and disposal of detour bridge after installation of the permanent bridge.
- Construction of the detour bridge may start in 2024 and it could be exposed to spring freshet condition. Contract specifications will require the contractor to protect the bridge and approaches.

Demolition of existing bridge entails:

- Installation of catchment system (to prevent debris falling into the river)
- Use of machinery to dismantle the existing bridge.
 - Removal of bridge deck
 - Removal of trusses and remaining bridge superstructure
 - Removal of bridge abutment or foundation
 - Cutting the existing piles to one meter below the grade
 - Cutting of bridge structure into smaller pieces for disposal
- Disposal of existing bridge and support structures
- Contract specifications will require the contractor to put erosion control measures and check turbidity of water.

Construction of new single span bridge:

- Use of machinery for site clearing and preparation- grading, earth movement, and removal of the existing slope protection riprap
- Driving piles for the foundations
- Construction of abutments above the high-water mark using precast components and grouting the connections on site on either side of the Jean Marie River
- Bearing installation
- Transportation and installation of steel girders
- Transportation and installation of precast deck panels and grouting for connections.
- Installation of bridge rail and guard rail
- Abutment backfills and compaction.
- Bringing fill and grading of approach roads and access to the river and adjacent properties
- Installing riprap for slope protection and scour and erosion control at the abutments. Riprap will extend below the highwater mark.
- Road surfacing
- Clean up and reclamation.

Heavy Equipment expected to be used on site during construction may include:

- Grader
- Bulldozer
- Water Truck
- Vibratory Packer
- Excavator
- Loader
- Haul Trucks/ End dumps
- Tool Truck
- Hand Tamper
- Pile Driver
- Crane
- Cement Truck
- Fuel Truck
- Light Pick up Trucks.

Project activities will commence in summer 2024 and be complete by fall 2025

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	X	(describe): Road bridge replacement

6. WATER LICENSING 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	X	
To modify the bed or bank of a watercourse		

Flood control			
To divert water			
To alter the flow of, or store, water			
To deposit waste			
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	
Embankment compaction and dust control	Borrow Pit 1		61°24'48.9" N	121°22'54.6"W	99 m ³ per day
	Borrow Pit 2		61°25'09.5" N	121°21'40.2"W	99 m ³ per day
	Borrow Pit 3		61°22'33.8" N	121°05'23.0"W	99 m ³ per day
	Borrow Pit 4		61°22'23.9" N	121°01'51.9"W	99 m ³ per day
Ice thickening	Jean Marie River	5m u/s of Jean Marie River Bridge	61.447727	121.237695	99 m ³ per day

Please note that these are the options for water withdrawal from existing borrow pits, and at the bridge location for ice thickening, but they will not all be used simultaneously. Rather these are the options for water sources.

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			

8. PROPOSED WASTE MANAGEMENT METHODS

Use the grey field 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 activities, describe proposed waste management activities in the grey field 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.

All waste from demolition of the existing Jean Marie River Bridge will be collected and transported to a landfill facility. Permission has been requested from one of the Town of Fort Simpson for disposal of the existing bridge materials offsite:

Fort Simpson Landfill will accept the following:

- Metals
- Sanitary wastewater 230L/day for approximately 300 days (expecting to dispose of wastewater once per week)
- Domestic waste – 60 kg per day for approximately 300 days

All other waste will be disposed of outside of the NT at a certified disposal site. The remaining waste will consist of:

- Steel bridge structure.
- Wood / Treated timber piles.
- Concrete with reinforcing steel.

A detailed Waste Management Plan (WMP) has been completed to provide guidance for the management of wastes produced during watercourse crossing construction activities within the NWT and is attached to this application.

If a camp is required by the constructor, a camp waste stream (food, garbage) will go to a Fort Simpson landfill as discussed with Fort Simpson unless the contractor uses other methods, such as use of existing

accommodation at the nearby Check Point Services Bed and Breakfast. Sanitary wastewater would be another waste stream which will be transported to and accepted by Fort Simpson landfill. Contractor equipment repairs will be disposed in the appropriate facilities. Spills will be disposed of in the appropriate facilities according to the contractor's spill management plan. Several different measures will be employed by the contractor to ensure that waste does not end up in the Jean Marie River.

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:	Check Point Bed and Breakfast
Community:	
Province/Territory:	NWT
Describe Engagement Completed:	Community meeting in Jean Marie River on March 28

Name:	Jean Marie River First Nation
Community:	Jean Marie River
Province/Territory:	NWT
Describe Engagement Completed:	Community meeting in Jean Marie River on March 28

Name:	Jean Marie River
Community:	Jean Marie River
Province/Territory:	NWT
Describe Engagement Completed:	Community meeting in Jean Marie River on March 28

Name:	Boat launch users and water way users
Community:	
Province/Territory:	
Describe Engagement Completed:	Community meeting in Jean Marie River on March 28

10. 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.

NA

Unless the project could be exempt from preliminary screening, 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.

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>
ABIOTIC COMPONENTS		
Land		
Soil contamination	X	<p>Soil contamination from demolition and construction activities All construction-related waste is to be collected and disposed of in designated containers or at approved facilities. Collect all waste materials, including oil or other waste liquids generated because of equipment maintenance, daily in suitable or approved containers (i.e., labeled and meeting any relevant regulatory requirements). On an as-required basis, remove the containers of waste from the site and properly dispose of them in accordance with applicable regulatory requirements. Throughout the duration of construction, cleanup areas. Periodic assessments of disposal manifests should be incorporated into environmental inspection activities. No wastes are to be left on site. Collect and dispose of all construction-related garbage, debris, wastes, and hazardous material from the Project Footprint in designated containers or at approved facilities. Ensure all hazardous waste materials generated at the site are properly identified, collected, stored, and disposed.</p>

<p align="center">Potential Impacts Use an "X" to indicate which apply</p>	<p align="center">X</p>	<p align="center">Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i></p>
<p>Soil Contamination (Cont'd)</p>	<p align="center">X</p>	<p>Retain and submit disposal records (e.g., manifests, waybills, etc.) for any waste types which are directly disposed of from site. Westcoast projects will also maintain accurate records of all waste information. Domestic, non-sewage-based waste (e.g., food waste or construction material containers) do not require such tracking.</p> <p>Soil contamination from petroleum products Place equipment (e.g., pumps, generators) within suitable secondary containment to prevent spills onto soils. Where practical, place equipment above the ordinary high-water mark/ordinary high-water level of watercourses or wetlands. Appropriate spill kits will be kept readily available at fuel or hazardous materials storage locations, as well as refueling and maintenance sites. Equipment parked overnight at the work site will be equipped with adequate secondary containment beneath areas prone to leakage of fuel and oils. The Contractor will designate a Spill Coordinator. For all construction-related spills, the Spill Coordinator will:</p> <ul style="list-style-type: none"> • Immediately report all spills to the GNWT • Mobilize onsite personnel, equipment, and materials for containment and/or cleanup of the spill. • Assist emergency response and monitor containment procedures to ensure that the actions are consistent with the requirements of this section. • In consultation with GNWT and appropriate agencies, determine if it is necessary to evacuate spill site to safeguard human health • Document the incident using the Spill Report Form or equivalent form containing the same information. <p>The Contractor will ensure that all personnel are trained in the handling of fuels and other regulated substances to follow spill prevention procedures (i.e., use of fueling equipment, establishment of watch person if required). All personnel will be trained to effectively contain and cleanup spills that may occur, in accordance with applicable regulations.</p>
<p>Soil compaction</p>	<p align="center">X</p>	<p>Soil compaction from construction activities around the detour bridge The Contractor will limit equipment travel to the existing road easement to the extent possible. Regrade areas with vehicle ruts</p>

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>
Destabilization/erosion	X	Erosion due to grubbing or other activities Grubbing limits will be established in the field by the Resident Engineer for portions of the project The contractor may be directed to salvage and store live plant material for use along exposed slopes or near stream crossings. Grubbing shall not advance more than 2 km beyond fill operations. Where directed by the Resident Engineer topsoil shall be stripped, stockpiled, secured, and surrounded by filter fabric to isolate and prevent any runoff from entering an adjacent watercourse. Erosion protection materials used will be clean and free of debris. If riprap is required to mitigate the loss of fisheries habitat along the shoreline, it will be washed prior to installation or free of debris. Re-vegetation of disturbed areas and excavated instream material will occur as soon as possible. Where necessary, appropriate erosion or siltation control measures will be installed by the Contractor.
Change in soil structure		
Inability to support vegetation		
Other		
Water		
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		
Drainage pattern changes		Drainage is to be maintained in its natural state wherever possible. Upon completion of the bridge replacement and removal of the temporary bridge recontour land to its natural state where possible.
Temperature changes		

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 water quality	X	<p>Water quality may be impacted from debris or sedimentation.</p> <p>The Resident Engineer and Environmental Lead will carry out visual monitoring of temporary and replacement bridge sites and down stream areas when Project activities are underway to ensure that the Contractor's construction procedures and methods of operation are not resulting in pollution and/or siltation of adjacent or downstream areas.</p> <p>The Contractor shall be aware that the work required in and around water crossings shall be performed with due care and caution so as to prevent pollution, sedimentation or any damage to the watercourses and downstream areas. All work associated with the bridge construction project shall be undertaken to prevent any change(s) to the existing water quality. Instream activity will be avoided.</p> <p>A QAES (Qualified Aquatic Environmental Specialist) will be on-site to monitor in-stream construction activities and to conduct turbidity monitoring.</p> <p>Building materials will be selected that do not leach or release deleterious substances into the watercourse. Material that may result in a release will be stored and handled away (i.e., >100 m) from the high water mark of the watercourse.</p> <p>Installation of a catchment system to avoid debris falling into the river during bridge demolition.</p>
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)	X	<p>Instream activity will be avoided through single span design.</p> <p>The Contractor shall be aware that the work required in and around water crossings shall be performed with due care and caution to prevent pollution, sedimentation or any damage to the watercourses and downstream areas. All work associated with the bridge construction project shall be undertaken to prevent any change(s) to the existing water quality. Instream activity will be avoided.</p> <p>A QAES (Qualified Aquatic Environmental Specialist) will be on-site to monitor in-stream construction activities and to conduct turbidity monitoring.</p>
Other		
Air		
Changes in air quality	X	<p>Air Emissions from equipment</p> <p>Project-related GHG emissions result primarily from the exhaust emissions related to the use of transportation vehicles and heavy-duty equipment (e.g., excavators,</p>

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 air quality (Cont'd)		graders, backhoes) and auxiliary equipment (e.g., power generators). Internal combustion engines, such as those associated with Project vehicles and equipment, emit CO ₂ and small amounts of N ₂ O, as part of the combustion process. Dust from construction activities The Contractor shall ensure that dust does not become a problem for workers on the project. Water shall be used by the Contractor to control dust when necessary or as requested by the Resident Engineer/EP.
Harm to living things		
Increased greenhouse gases	X	Air Emissions from equipment Project-related GHG emissions result primarily from the exhaust emissions related to the use of transportation vehicles and heavy-duty equipment (e.g., excavators, graders, backhoes) and auxiliary equipment (e.g., power generators). Internal combustion engines, such as those associated with Project vehicles and equipment, emit CO ₂ and small amounts of N ₂ O, as part of the combustion process.
Other		
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation	X	Vegetation removal at detour bridge and replacement bridge locations All work at water crossings shall be conducted in such a manner as to minimize or eliminate disturbance to remaining vegetation. Use existing disturbed areas for lay down areas and ensure that there is no unnecessary disturbance of stream side vegetation or destabilization of embankments.
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species	X	Introduction of non-native species All equipment will arrive at the Project site clean and free of soil or vegetative debris to reduce the risk of weed introduction. Any equipment which arrives dirty will not be allowed on the Project site until it has been cleaned.
Effects on plant health (dust, metals, toxins)	X	Project activity dust may affect plant health. The Contractor shall ensure that dust does not become a problem at the Project site. Water shall be used by

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>
Effects on plant health (dust, metals, toxins) (Cont'd)	X	the Contractor to control dust when necessary or as requested by the Resident Engineer/EP.
Increased risk of fire		
Compaction of vegetation		
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests	X	Vegetation removal will be restricted to the Project Footprint
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality	X	Project activities will be limited to the Project Footprint
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	Harassment of wildlife by Project personnel is prohibited.
Other		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)	X	See above for sediment control measures and monitoring
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance		
Change in species diversity		
Other		
CULTURAL COMPONENTS		
Wildlife Harvesting		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights	X	Jean Marie River First Nation has been engaged in bridge design and the single span bridge with no instream activities was the preferred option.
Other		

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>
Cultural Integrity and Heritage Resources		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle	X	Indigenous groups using the Jean Marie River for traditional purposes may be impacted by the Project.
Change to or loss of heritage resource		
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)	X	The Project has the potential to provide employment to locals.
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	X	The Project has the potential to impact the boat launch that is adjacent to the site. Boat launch users have been engaged on the Project and discussions are ongoing as to how access to the boat launch will be maintained for users.
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)	X	The Project has the potential to impact the bed and breakfast operation adjacent to the site. The bed and breakfast operation has been engaged on the Project.
Other		

Spill Contingency Plan: Include a 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](#).

A detailed Spill Contingency Plan (WMP) has been completed to provide guidance for any spill incidents during watercourse crossing construction activities and is attached to this application.

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:			
Responsibilities:			
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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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.

Drilling bore holes for geotechnical investigation. Desktop hydrotechnical investigation Archeological Overview Assessment (AOA) Investigating available quarries Archeological Impact Assessment (AIA)

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:		Completion Date:	
Migratory bird nest removals and net installation to prevent nesting – spring 2024 to summer 2024 Construction Start – summer 2024 Possible winter construction shut down – winter 2024-2025 Construction completion – fall 2025			
Term of Licence Requested:	The water licence is required for 2 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 Indigenous, federal, and territorial 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 Tłı̨chǫ 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: Include a Closure and Reclamation Plan in the Application Package, or for small-scale activities, 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](#) 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 Board staff, 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 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.

The Engagement Plan for the Mackenzie Highway (NWT#1) is being used for engagement activities. An engagement log and records of meetings held is attached to this application.

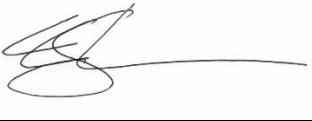
15. FEES

Refer to the Guide for assistance with determining applicable fees.

Type of Fee	Amount (\$)
Application fee (if applicable):	\$0.00
Water use fee deposit:	\$0.00
Total Fees:	\$0.00

16. SIGNATURE

Charles Shewen, P.Biol Jacobs Consulting Canada	Environmental Manager JMRB Project

	April 8, 2024
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, www.wlwb.ca, www.slwb.com, www.glwb.com).