

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:		Sahtú Land and Water Board:	X
	Wek'èezhìi Land and Water Board:		Gwich'in Land and Water Board:	

Use an "X" to indicate if the proposed project or its potential impacts may be transboundary:	
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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](#)



Received: December 19, 2025

File #: MV2025F0025

Copied to: TM/REG

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:		X
	Water Licence – in a federal area:		

1. NAME AND CONTACT INFORMATION – APPLICANT

Project Name:	Mackenzie Valley Winter Road (MVWR)		
Applicant's Name:	Dustin Dewar		
Position:	Manager, Highway Operations		
Company Name:	Government of the Northwest Territories Department of Infrastructure (GNWT-INF)		
Mailing Address:	PO Box 86, 9706-100st Nahendeh Kue Building		
Community:	Fort Simpson	Telephone:	867-695-7660
Prov/Terr:	NT	Email:	Dustin.Dewar@gov.nt.ca
Postal Code:	X0E 0N0	Other:	

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:	To be determined		
Position:			
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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4. LOCATION OF ACTIVITIES

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

<u>Traditional Place Name:</u>	Refer to Traditional Knowledge reports and summary provided with this application.
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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:	63°13'58.04"N	Maximum latitude:	67° 1'28.09"N
Minimum longitude:	123°28'43.51"W	Maximum longitude:	126° 6'56.76"W

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

106I07, 106I08, 106I09, 096L12, 096L11, 096L14, 096L15, 096L16, 096M01, 096C14, 096C15, 096F02, 096F01, 096G04, 096G03, 106I07, 106I02, 106I01, 106H16, 096E13, 096E12, 096E05, 096E06, 096E07, 096E02, 096E01, 096F04, 096C13, 096C14, 096C15, 096C10,

096C07, 096C08, 096C01, 095N16, 095O13,
095O12, 095O05, 095O03

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

Attached:	X	Not Available:	
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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:	X	Commissioner’s/ Territorial Lands:	X	Federal Land:		Municipal Land:	
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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):		18(a)(ii):		18(a)(iii):		18(b):	X
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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.).

The Mackenzie Valley Winter Road is considered a public highway and occurs along Commissioner’s /Territorial Lands. There are lease agreements in place for a number of locations along the winter road, and include lease agreements for:

Portion of Parcel 169 (surveyed and title raised as Lots 1003, Quad 96 C/1, Plan 3852)
 Portion of Parcel 171 (surveyed and title raised as Lots 1005, Quad 96 C/1, Plan 3852)
 Lot 1008, Quad 96 E/1, Plan 3636
 Lot 1003, Quad 96 E/1, Plan 3471
 Lot 1003, Quad 96 C/7, Plan 3189
 Portion of Parcel 175 (surveyed and title raised as Lot 1002, Quad 95 N/16, Plan 4529)
 Lot 1015, Quad 96 C/10, Plan 3853
 Lot 1051, Quad 96 E/7, Plan 3142
 Lot 1000, Quad 106, I08
 Lot 1006 Quad 96, M-01

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):		(SLWB and WLWB only):	
4(a)(ii):	X	4(b)(ii):		5(a)(ii):	X	5(b)(ii):			
4(a)(iii):		4(b)(iii):		5(a)(iii):					

4(a)(iv):		4(b)(iv):		5(a)(iv):	X
4(a)(v):	X			5(a)(v):	
				5(a)(vi):	

8. PROJECT DESCRIPTION

In the grey field below, either reference an attached project description or, for small-scale projects, describe the proposed project activities.

A Type A Land Use Permit is required to construct spur roads to access proposed water sources for the for the construction and maintenance of the MVWR from Wrigley to Colville Lake during the winter road season. The MVWR and associated winter spur roads will be constructed and maintained along the existing winter road corridor in accordance with GNWT-INF snow and ice road standards to accommodate large truck traffic up to 64,000 kilograms with an approximate travel speed of 35km/hour.

INF has been constructing and maintaining a public winter road system in the Sahtú Settlement Area (SSA) since the late 1970's to provide seasonal access for re-supply and inter-community travel for SSA communities, the public, government and industry. The winter road is constructed and maintained along the existing winter road corridor from approximately November to March of each year, with most water usage in November and December. Winter roads are typically constructed by compacting and smoothing out a layer of snow to a minimum thickness of 10 cm and allowing it to set for at least 24 hours before being open to the public. Throughout the winter road season snow is continually added, compacted and graded into the roadbed. To reinforce and improve the now roadbed structure, water is typically extracted from waterbodies crossed by or adjacent to the winter road system and sprayed onto the roadbed.

There has been an increase in heavy truck traffic throughout the years, which has required the department to increase maintenance activities and procedures to accommodate the heavy traffic and other public users of the winter road system. Increased maintenance activities include placing additional water on top of the compacted snow to accommodate heavier traffic/truck loads, to extend the operating season of the winter road system and maintain a safe and effective winter road system. Additional spur roads to access water sources may be required and will be located as close to the MVWR alignment as possible to limit environmental impacts.

Water trucks will be used primarily for building smooth driving surfaces mainly where rough areas exist by stabilizing (freezing) the loose snow with water. When constructing ice bridges, if natural ice is not thick enough to support the construction it may be flooded with portable pumps or auger trucks which bring the water onto the surface. Ice spraying is also a method that could be used and includes using an ice auger to drill a hole in the ice for the suction hose on the pump and positioning the pump near the hole in the ice. The construction and maintenance procedures for all winter roads are outlined and described in the [Highway Maintenance Manual](#) (GNWT-DOT 2010) and the [Guidelines for Safe Ice Construction](#) (GNWT-DOT 2015).

For each and all proposed water uses, describe the purpose of the water use, the name and type (e.g., lake, river) of water source(s), the location, and the quantity of water to be used (rates, volumes (m³/day)) in the grey fields below. Add more rows as needed. For more information on what is considered water use, see the LWB [Reference Bulletin: Water Use](#).

Purpose of Water Use	Name and Type of	Location	Geographic Coordinates		Proposed Water Use
			Latitude	Longitude	

	Water Source				Volume/Rate, including units
Construction and maintenance of overland portions of the winter road	See Water Withdrawal Plan (Version 1.0) for details				Up to 1,600 m ³ /day
Potable water					Up to 10 m ³ /day
Ice bridges					8,000 m ³ /day
Notes: Water used on overland winter roads returns to natural watercourses along the winter road during the spring thaw of each year. Ice bridges is limited to Great Bear River at Zone 5-2 and Mackenzie River at Zone 8 only. For this use, water is withdrawn directly from the watercourse on which the ice bridge is being constructed.					

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

Approximately 6 hectares

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.

Small camps may be required for the construction of the MVWR. These camps may be mobile and will not exceed 200 person days and if fuel will be stored it will be in containers less than 2,000 litres; total fuel stored will not exceed 4,000 litres. As per the Mackenzie Valley Land Use Regulations Section 7, GNWT-INF will notify the SLWB of fuel caches within 30 days and provide location, amount and type of fuel, size of containers, method of storage and proposed date of removal. The Spill Contingency Plan also provides information on the fuel storage and transfer. If a camp is required, it will be staged at a previously cleared location such as a quarry site and will be communicated with the GNWT-ECC Inspector.

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	X	Use an "X" to indicate if the route has been laid out or ground-truthed:	Yes	
	No			No	X

The MVWR has been constructed along the existing winter road corridor since the late 1970's. Spur roads to water sources will use historic access routes where available.

11. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide, or reference attachments that provide, 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:	See attached Waste Management Plan
Sewage (Sanitary and greywater):	
Brush and trees:	As per land use permit conditions
Overburden (Organic soils, waste material, etc.):	No excavation is required
Other (describe):	See attached 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. This information will be provided to the Board prior to commencement of activities.

12. EQUIPMENT

The following is a list of equipment that is typically used for operations and maintenance on a winter road. Equipment and attachments listed may vary slightly as a result of make and model, and no specific numbers of equipment is listed because it is dependent on the level of service being provided.

Number	Type/Description	Size (weight in tonnes)	Proposed use
Various	Snow Cats or similar types of snow removal equipment	3 – 11	Winter road construction and maintenance
Various	Motor Graders	18 – 62	Winter road construction and maintenance
Various	Single Axle, Tandem Axle, Tridem Axle Haul Trucks, and similar types of heavy equipment	9 – 27	Winter road and camp construction and maintenance
Various	Tractor Trailers	11 – 16	Equipment transport
Various	Mulching Equipment	4 - 10	Brush clearing from the right of way
Various	Fuel Tankers	12 - 26	Fuel resupply
Various	Light vehicles, pick-up trucks, ATVs, snowmobiles, Sherps, Side-by-sides, small and large transport trailers, other wheeled and track equipment	0.1 – 3.5	Snow removal, roadway watering, fuel resupply, transport
Various	Generators	0.02 – 0.9	Power source
Various	Various small equipment- rock pickers, soil cultivators, roadway sweepers, post hole drills, post drivers, water pumps, rig mate, patching units, tar pots, tampers,	0.1 – 2.93	Winter road and camp construction and maintenance

	compressors, jack hammers, etc.		
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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:	7	455 litres	Tank	On mobile fuel trucks, camps
Gasoline:	5-9	455/2,000 litres	Tank/enviro-tank	On mobile fuel trucks, camps
Aviation Fuel:	N/A	-	-	-
Propane:	20	100 lb	Cylinder	Construction camps
Other: (describe)	N/A	-	-	-

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fuel transfer will only take place at a designated area, located a minimum of 100 metres from the ordinary high watermark of any watercourse or waterbody. Fuel transfer will only be completed by trained personnel using approved tanks, hoses, and pumps. Hoses and fuel lines will be regularly inspected and maintained, and at least one spill kit will be kept at each fuel transfer area.

15. SPILL CONTINGENCY PLAN

In the grey field below, either reference an attached Spill Contingency Plan or, for small-scale projects, describe spill planning details. More information and an example of this Plan can be found in the [INAC Guidelines for Spill Contingency Planning](#).

See Spill Contingency Plan provided with application

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:	November 15, 2026	Completion Date:	November 15, 2031
Project activities will only occur in winter. Project activities outside of November to March will not occur.			
Term of Permit Requested:	5 years		

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.

The Project activities outlined in the land use permit application have not been subject to preliminary screening. As the Project has occurred along the same corridor since the late 1970's, and the project area and water access/spur roads occur in a disturbed area, most environmental impacts are expected to be minimal.

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>
ABIOTIC COMPONENTS		
Land		
Soil contamination	X	Fuel leaks from heavy equipment or fuel transfer, storage or handling may cause soil contamination. The Spill Contingency Plan will be implemented and followed to reduce instances of soil contamination and to clean up any spills. The GNWT-INF will also comply with applicable land use permit conditions (e.g., fuel containment, spill response).
Soil compaction	X	Soil compaction, destabilization and erosion may occur from spur road development and heavy equipment use. Construction and operation during frozen conditions will reduce destabilization, erosion, and changes in soil structure. In addition, the Erosion and Sedimentation Management Plan will be implemented.
Destabilization/erosion	X	
Change in soil structure		
Inability to support vegetation		
Other		
Water		
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
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>
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)	X	Water flow or level changes may occur from water withdrawal activities associated with winter road and spur road construction and maintenance. The Water Withdrawal Plan outlines the maximum volume of water that will be obtained from any watercourse or waterbody. These withdrawal rates are in accordance with the DFO 10% of available under-ice volume for waterbodies and the 10% of instantaneous flow for watercourses. The GNWT-INF will also comply with applicable conditions of the water licence issued for construction and maintenance of the MVWR.
Drainage pattern changes		
Temperature changes		
Changes in water quality	X	Fuel leaks from heavy equipment, fuel use and water withdrawal may cause changes to water quality. The Spill Contingency Plan will be implemented and followed to reduce instances of surface water contamination and clean up any spills. In addition, the Erosion and Sedimentation Management Plan will be implemented to reduce the likelihood of sediment entering waterbodies and watercourses. The GNWT-INF will also comply with applicable land use permit conditions (e.g., fuel containment, spill response)
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases		
Other		
BIOTIC COMPONENTS		
Vegetation		
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		

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>
Other		
Terrestrial Wildlife Habitat		
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		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)	X	Impacts to aquatic health may occur from fuel leaks from heavy equipment, fuel use and water withdrawal. The Spill Contingency Plan will be implemented to reduce instances of surface water contamination and clean up any spills. In addition, the Erosion and Sedimentation Management Plan will be implemented to reduce the likelihood of sediment entering waterbodies and watercourses. The GNWT-INF will also comply with applicable land use permit conditions (e.g., fuel containment, spill response)
Changes to migratory movement patterns	X	Water withdrawal activities have the potential to impact aquatic habitat. Water withdrawal will only occur in accordance with the Water Withdrawal Plan and DFO protocols for winter water withdrawal from ice-covered waterbodies. Appropriate fish screens will also be used at the ends of all intake pipes.
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	Impacts to local water users may occur from fuel leaks from heavy equipment, fuel use and water withdrawal. The Spill Contingency Plan will be implemented and

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>
		followed to reduce instances of environmental contamination and clean up any spills. In addition, the Erosion and Sedimentation Management Plan will be implemented to reduce the likelihood of sediment entering waterbodies and watercourses.
Other		
Cultural Integrity and Heritage Resources		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
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	Local contractors are hired annually, creating opportunities and economic benefits for communities along the MVWR.
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		

18. CLOSURE AND RECLAMATION

Closure and Reclamation Plan: In the grey field below, either reference an attached Closure and Reclamation Plan, or for small-scale projects, describe the proposed closure and reclamation activities. 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](#).

The [Environmental Guidelines for the Construction, Maintenance and Closure of Winter Roads](#) (GNWT-DOT 1993) will be followed at the end of each winter road season to close the MVWR. The MVWR is expected to be in place for the foreseeable future to provide inter-community travel within the SSA, therefore a Closure and Reclamation Plan is not required.

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 this Application is

submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

19. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide, or reference attachments that provide, 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.

An Engagement Plan is included with the land use permit and Type A water licence applications. Engagement is ongoing, and an engagement log will be provided once the engagement period has ended.

A Land Use Plan conformity table is included in Section 12 of the Project Description.

Traditional Knowledge reports were submitted to the Mackenzie Valley Land and Water Board with the initial Type A Water Licence application for the MVWR in 2023. These studies can be found on the public registry:

- [Tulita Traditional Knowledge Questionnaires 2022-23](#)
- [2004 and 2008 Traditional Ecological Knowledge and Consultation](#)

Since the early 2000's, GNWT-INF has undertaken numerous studies on the water sources used for the construction of the MVWR. In addition, GNWT-INF has cited studies that contain information on proposed water sources. Studies and documents with information used in this application include:

- Sahtú Land Use Plan [The Plan | Sahtu Land Use Planning Board](#)
- 1993 Environmental Guidelines for Winter Roads Document Overview [S04L8-013 - Water Licence Application - Environmental Guidelines for Winter Roads - Oct 18 04.pdf](#)

Water Survey of Canada's National Water Quantity Survey Program (Hydrometric Stations) [Real-Time Hydrometric Data Text Search - Water Level and Flow - Environment Canada](#)

2002 Preliminary Engineering Assessment of 22 Stream Crossings – Mackenzie Valley Winter Road Wrigley to Fort Good Hope [GNWT-INF - Winter Road - Preliminary Engineering Assessment of 22 Stream Crossings - Jul14 23.pdf](#)

2004 Bathymetry Information Mackenzie Valley Winter Road Norman Wells to Fort Good Hope Apache Canada Ltd [GNWT-INF - Winter Road - 2004 Bathymetric Maps - Jul14 23.pdf](#)

2004 Environmental Impact Statement Dillon Consulting Ltd [GNWT-INF - Winter Road - 2004 Environmental Impact Statement - Jul14 23.pdf](#)

2004 Applied Aquatic Research Limited, Mackenzie Gas Project Report PT1 [GNWT-INF - Winter Road - Bathymetric Survey of Potential Water Bodies to Supply 2004 Winter Geotech Program Jul14 23.pdf](#)

Traditional Ecological Knowledge Study 2004 and 2008 [GNWT-INF - Winter Road - 2004 and 2008 Traditional Ecological Knowledge and Consultation - Jul14 23.pdf](#)

2005 Golder MVWR Water Use Study, **Sahtú Region** [GNWT-INF - Winter Road - 2005 Water Use Study - Jul14 23.pdf](#)

2006 Golder Bathymetric Characteristics, Winter Dissolved Oxygen Concentrations and Water Withdrawal Potential for Lakes along the MVWR, **Sahtú Region, NWT (2005 - 2006)**. [GNWT-INF - Winter Road - 2006 Early Winter Dissolved Oxygen Concentration in Lakes - Jul14 23.pdf](#)

2007 Golder Bathymetry Data Fall [GNWT-INF - Winter Road - 2008 Bathymetric Surveys Jul14 23.pdf](#)

2008-2009 Report Dillon Water Withdrawal Site Assessments along the MVWR [GNWT-INF - Winter Road - 2009 Dillon Under Ice Field Report - Jul14 23.pdf](#)

2009 Dillon Feasibility Study, Water Licence Amendment Application, Water Licence S04L8-013 and S04L8-014 [GNWT-INF - Winter Road - 2009 Dillon Feasibility Study for Water - Jul14 23.pdf](#)

2009 Golder: Bathymetry Report [GNWT-INF - Winter Road - 2008 Bathymetric Surveys - Jul14 23.pdf](#)

2012 Sahtú Winter Stream Habitat Investigations [GNWT-INF - Winter Road - 2012 DFO Winter Stream Habitat Investigations - Jul14 23.pdf](#)

April 2021 MLWB Method for Determining Available Winter Water Use Capacity for Small-Scale Projects [download](#)

April 2021 LWB Technical Reference Document for the Method for Determining Available Winter Water Volumes for Small-Scale Developments [download](#)

MV2010L8-0010 Environmental Information Report [MV2010L8-0010 - Environmental Information Report - Oct07-10.pdf](#)

2022 Mackenzie Valley Highway Water Availability [GNWT-INF - Winter Road - Desktop-based Assessment of Water Availability - Jul14 23.pdf](#)

2023 Tulita Renewable Resource Traditional Knowledge Questionnaire [GNWT-INF - Winter Road - Tulita Traditional Knowledge Questionnaires 2022-23 - Jul14 23.pdf](#)

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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):	\$
Total Fees:	\$

If fees are submitted separately, indicate how and when they will be delivered to the Board's office.

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21. SIGNATURE

Dustin Dewar	Manager, Highway Operations
Applicant's Name (print) or Company Name	Position (print)

	December 19, 2025
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).

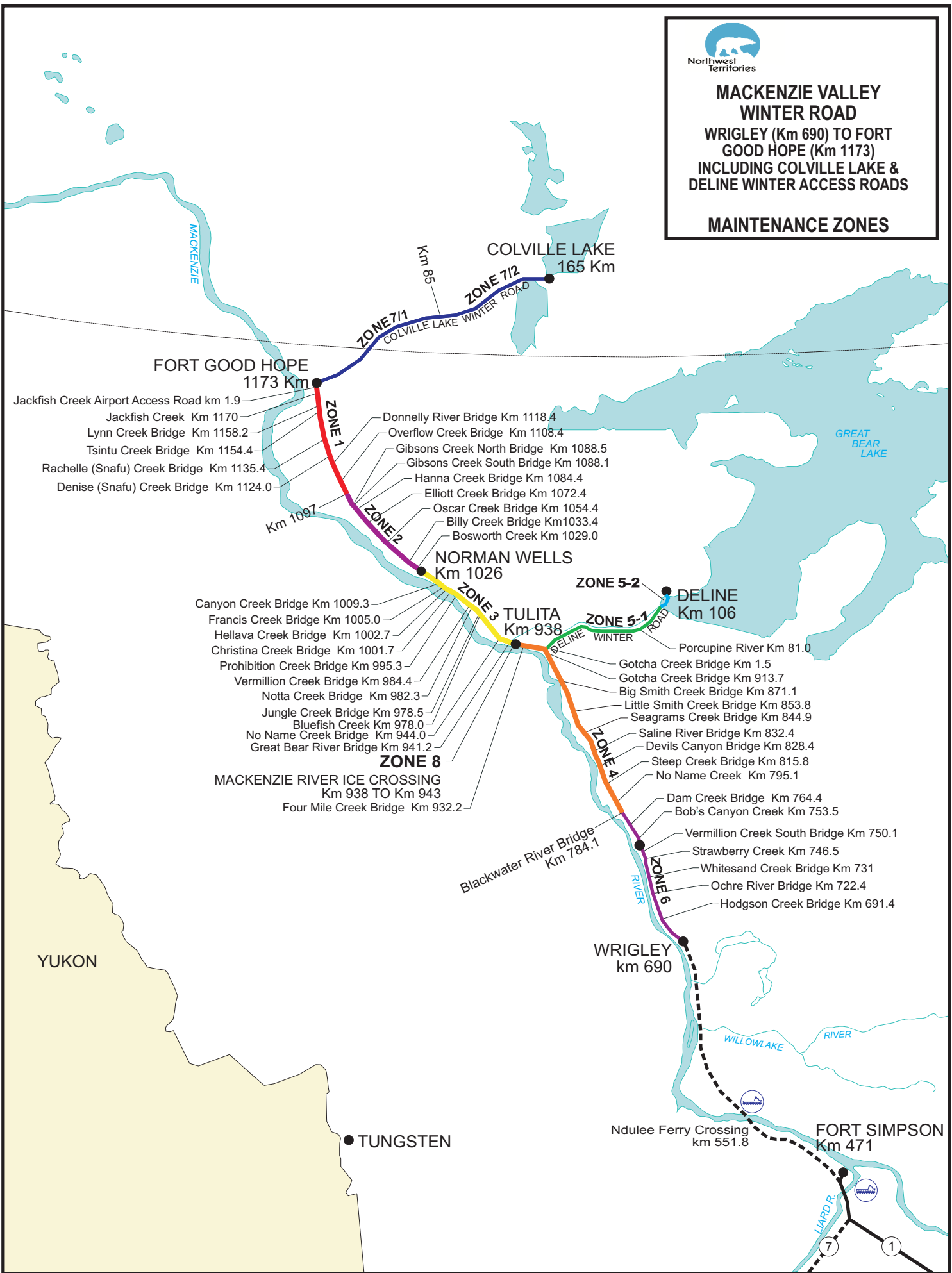


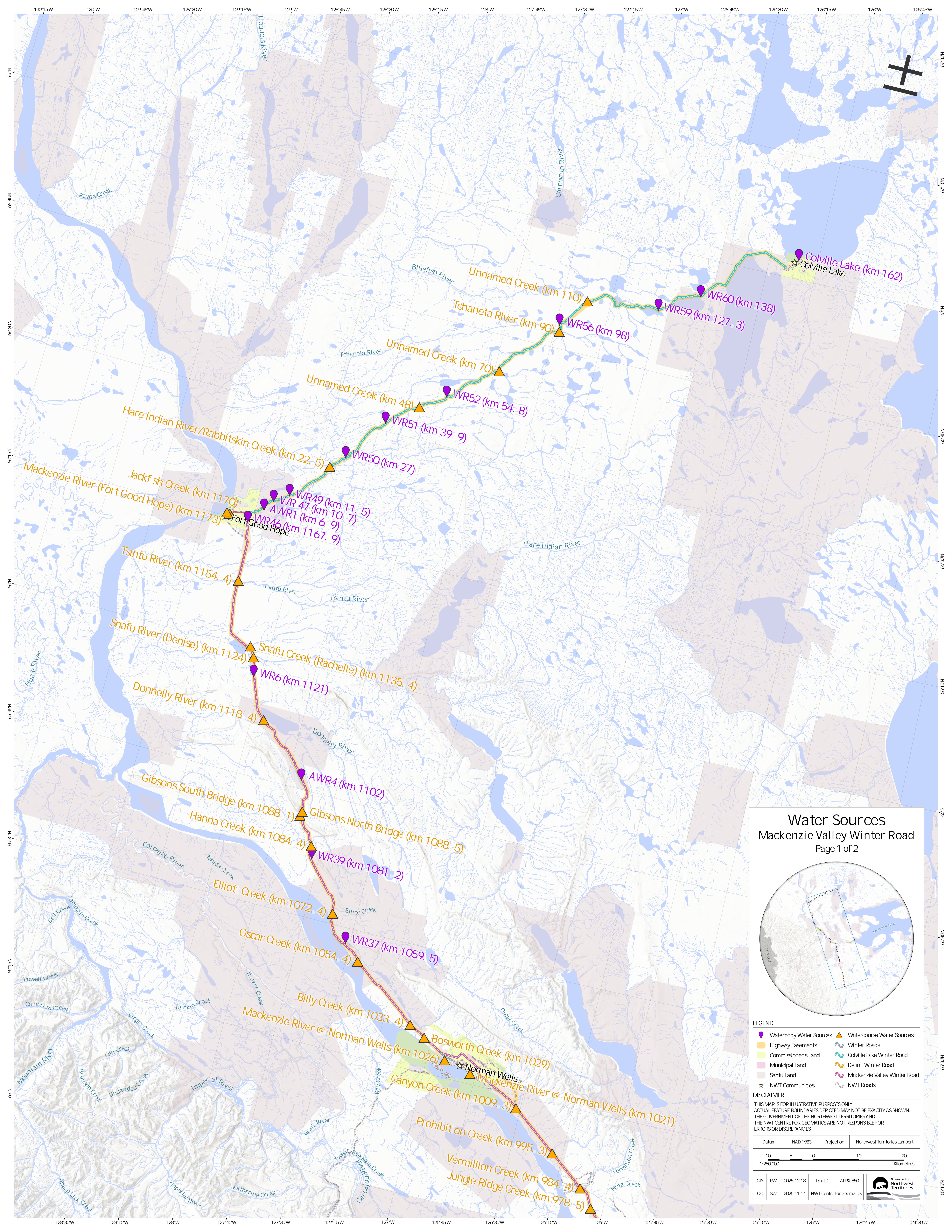
Northwest Territories

MACKENZIE VALLEY WINTER ROAD

WRIGLEY (Km 690) TO FORT GOOD HOPE (Km 1173) INCLUDING COLVILLE LAKE & DELINE WINTER ACCESS ROADS

MAINTENANCE ZONES

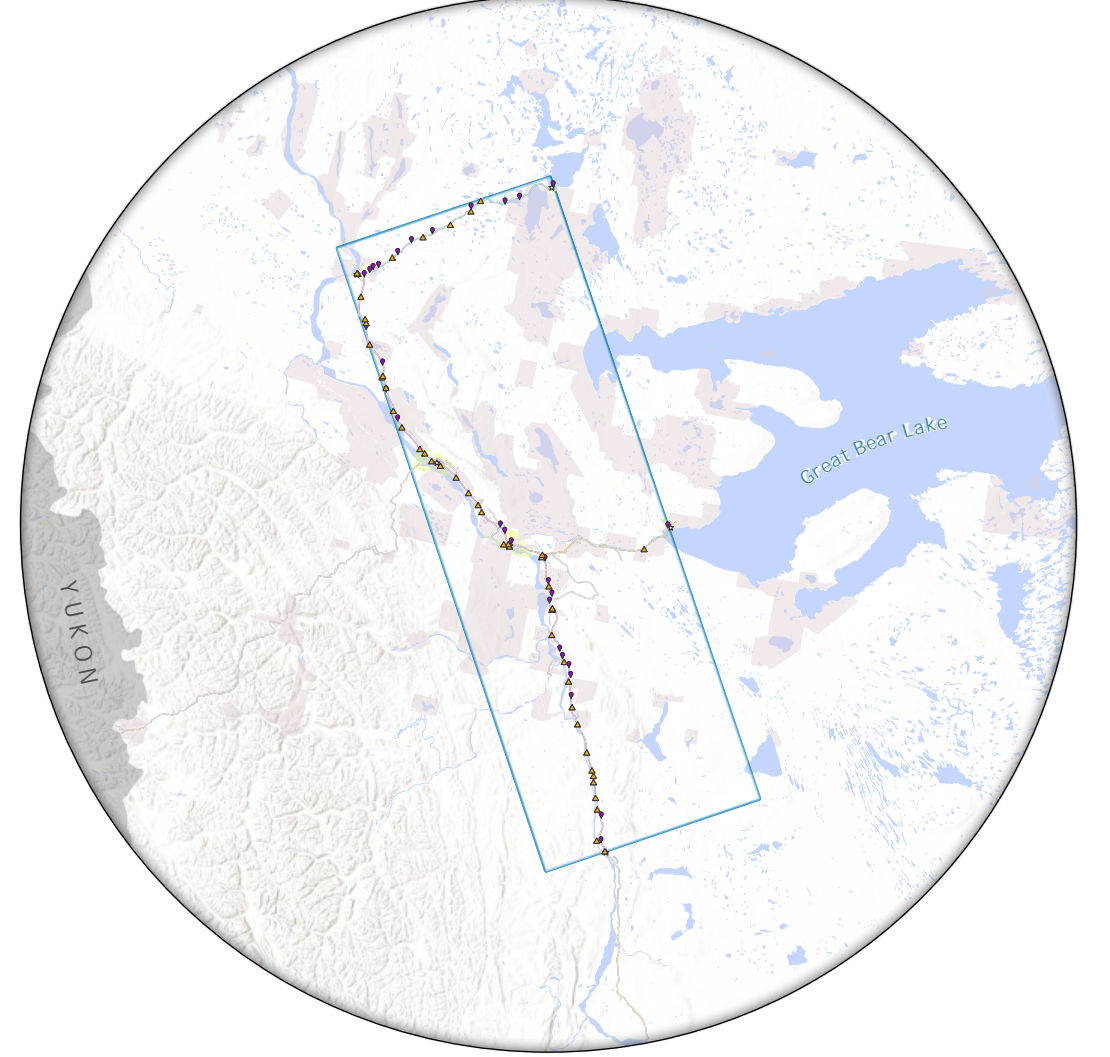




Water Sources

Mackenzie Valley Winter Road

Page 1 of 2

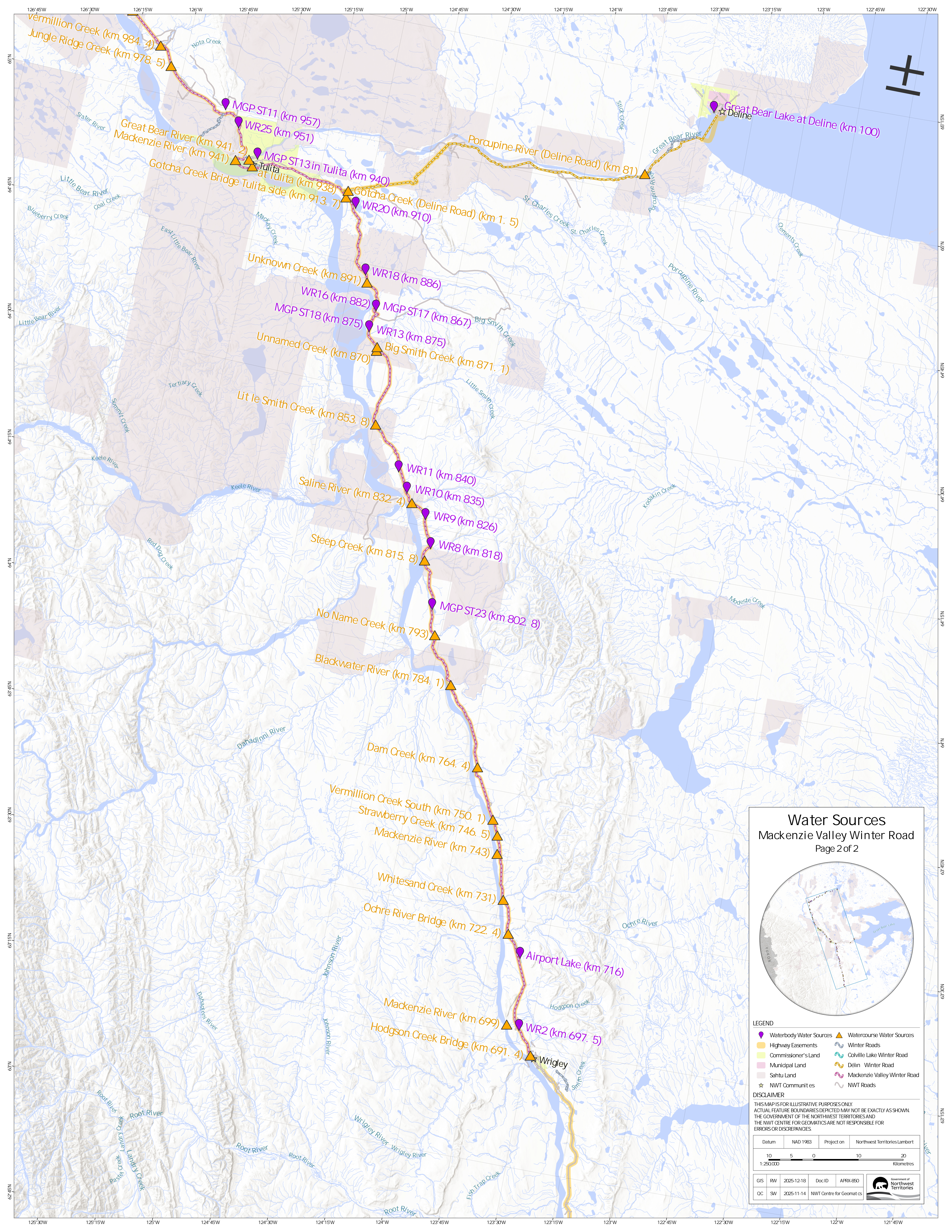


- LEGEND**
- ▲ Waterbody Water Sources
 - ▲ Watercourse Water Sources
 - Highway Easements
 - Commissioner's Land
 - Municipal Land
 - Sahtu Land
 - ★ NWT Communities
 - Winter Roads
 - Colville Lake Winter Road
 - Delin Winter Road
 - Mackenzie Valley Winter Road
 - NWT Roads

DISCLAIMER
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Datum	NAD 1983	Project on	Northwest Territories Lambert
		Kilometres	
1:250,000			

GIS	RW	2025-12-18	DocID	APRX-850	
OC	SW	2025-11-14	NWT Centre for Geomatics		



Water Sources

Mackenzie Valley Winter Road

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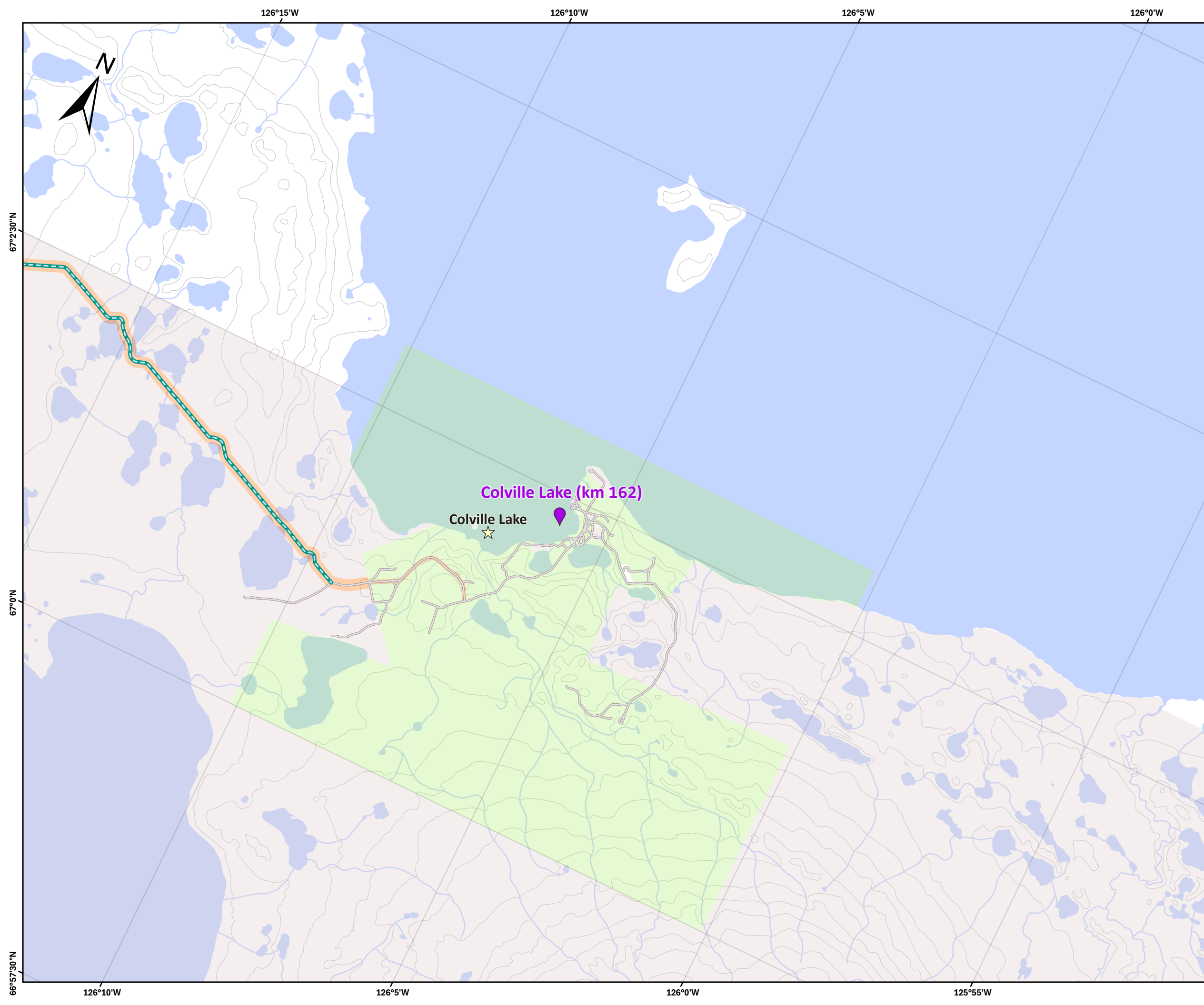
LEGEND

- ▲ Waterbody Water Sources
- ▲ Watercourse Water Sources
- Highway Easements
- Commissioner's Land
- Municipal Land
- Sahtu Land
- ★ NWT Communities
- Winter Roads
- Colville Lake Winter Road
- Deline Winter Road
- Mackenzie Valley Winter Road
- NWT Roads

DISCLAIMER

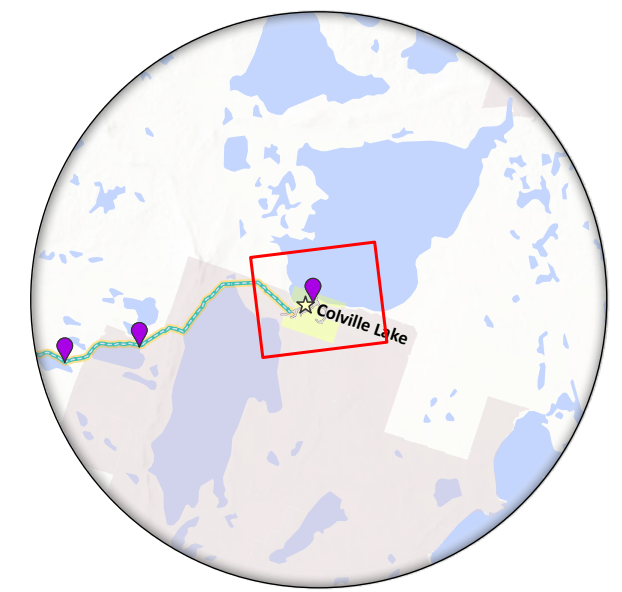
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Mackenzie Valley Winter Road

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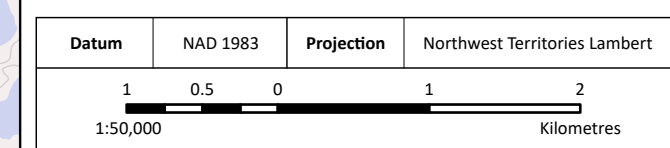
Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

LEGEND

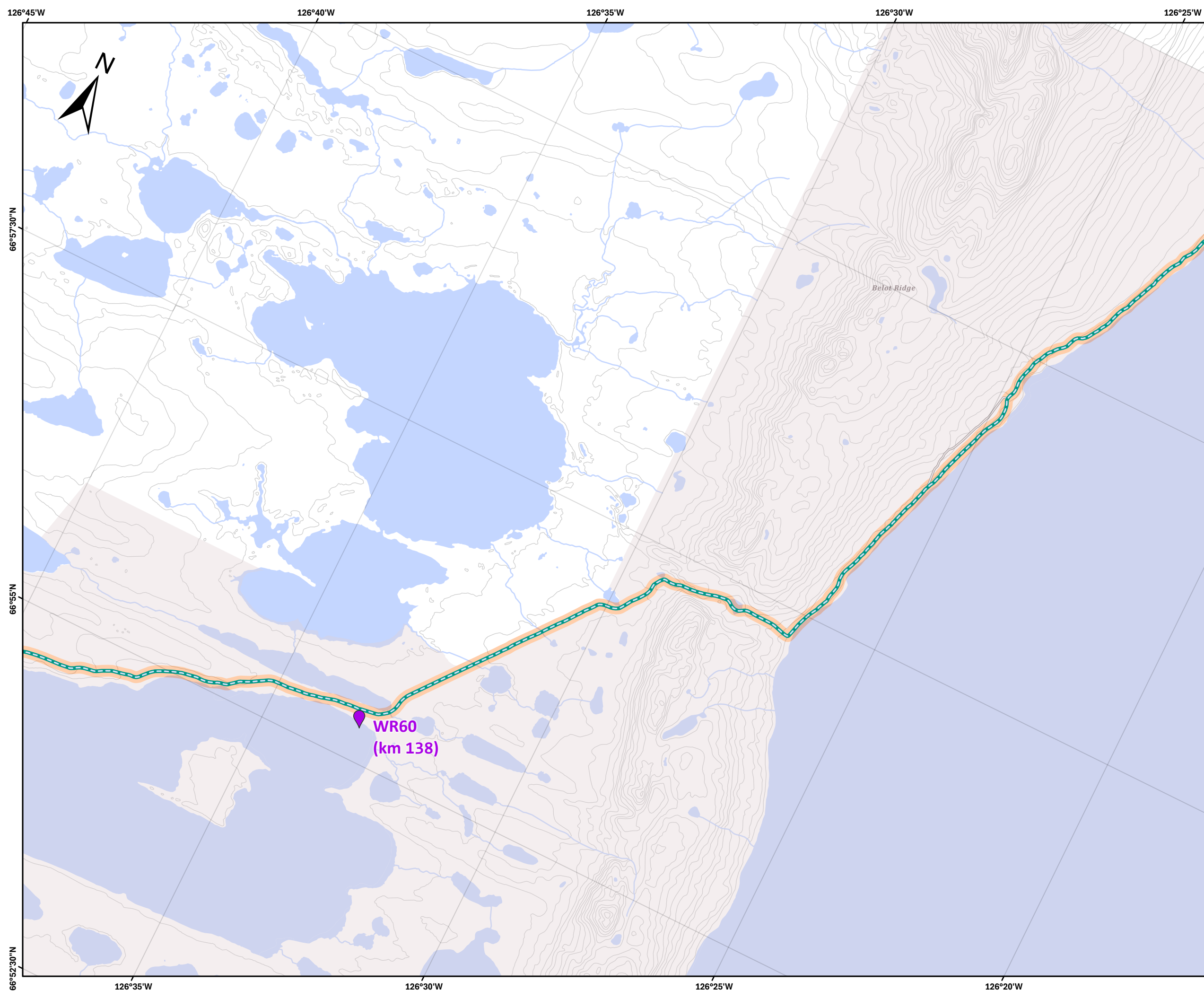
- Watercourse Water Sources
- Waterbody Water Sources
- NWT Communities
- NWT Roads
- Colville Lake Winter Road
- Highway Easements
- Commissioner's Land
- Sahtu Land
- Contour Lines

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GIS	RW	2025-12-18	Doc ID	APRX-850	
QC	SW	2025-11-14	NWT Centre for Geomatics		



Mackenzie Valley Winter Road

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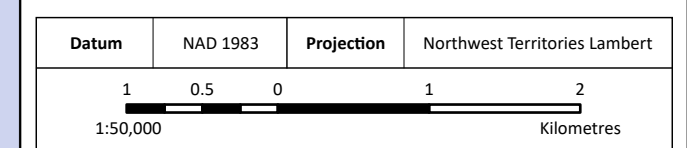
Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

LEGEND

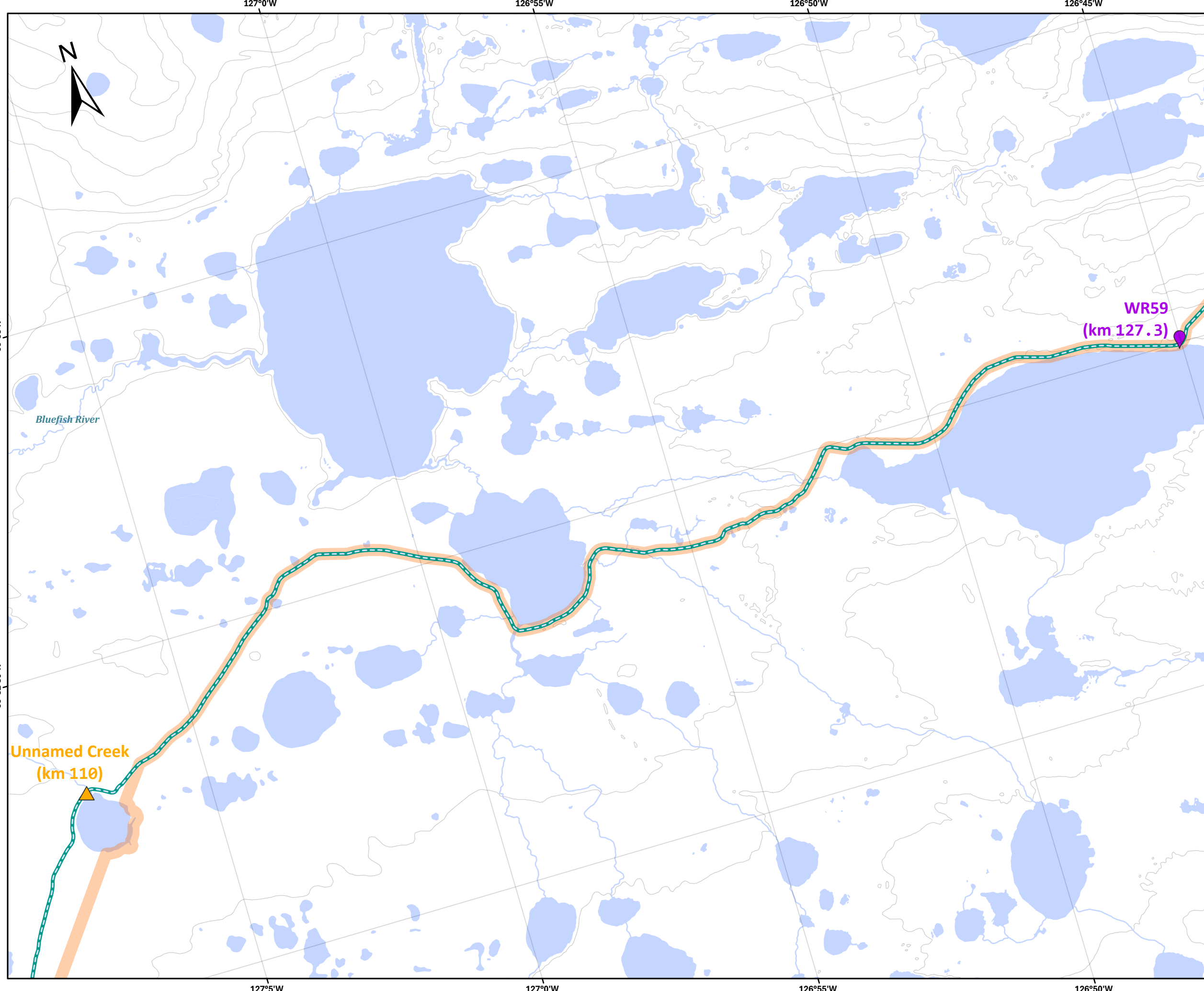
- Watercourse Water Sources
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Mackenzie Valley Winter Road

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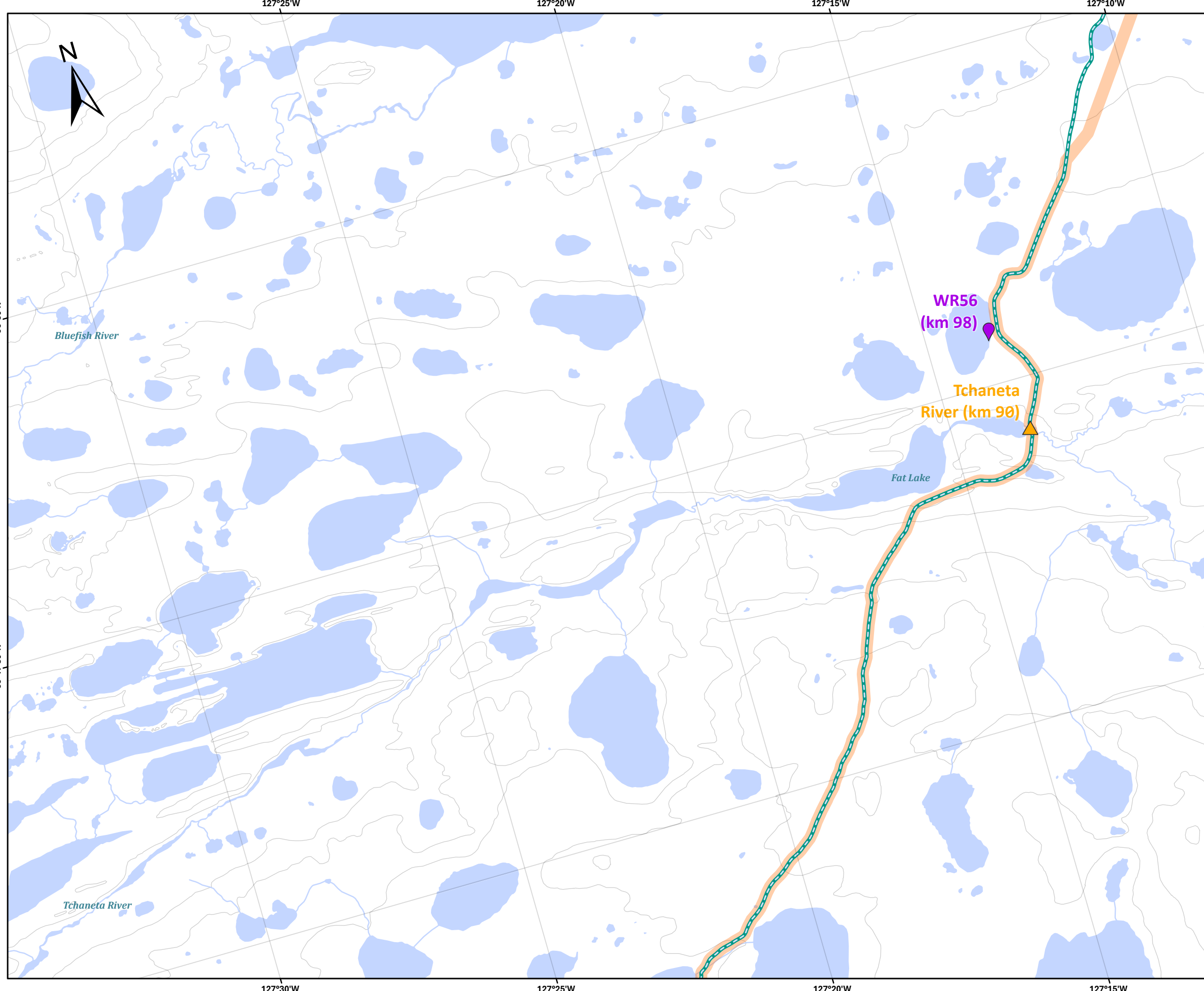
Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

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1:50,000 Kilometres			

GIS	RW	2025-12-18	Doc ID	APRX-850	
QC	SW	2025-11-14	NWT Centre for Geomatics		



Mackenzie Valley Winter Road

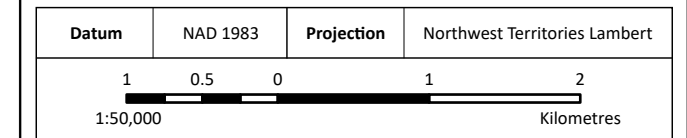
Page 4 of 28



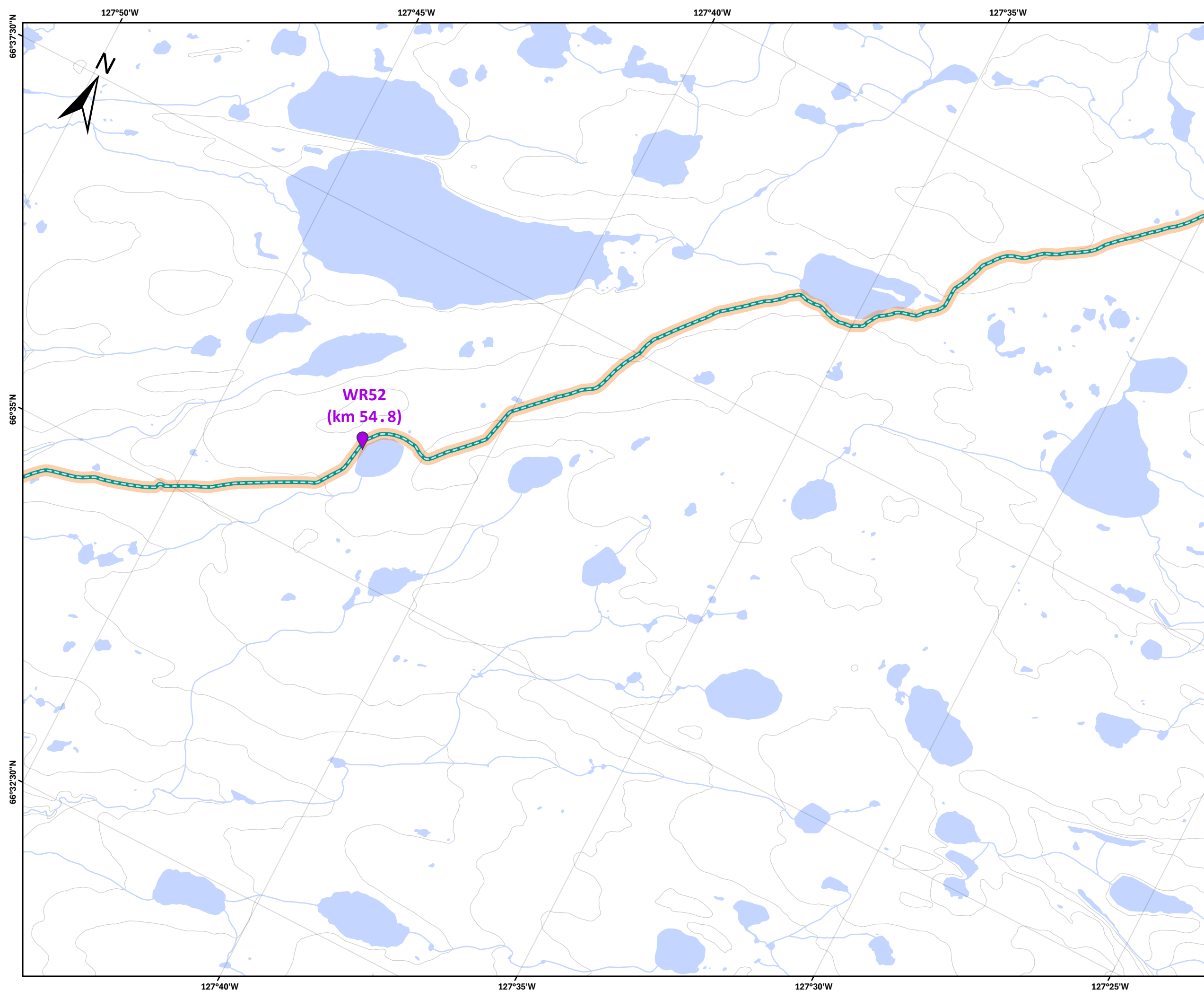
Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

- LEGEND**
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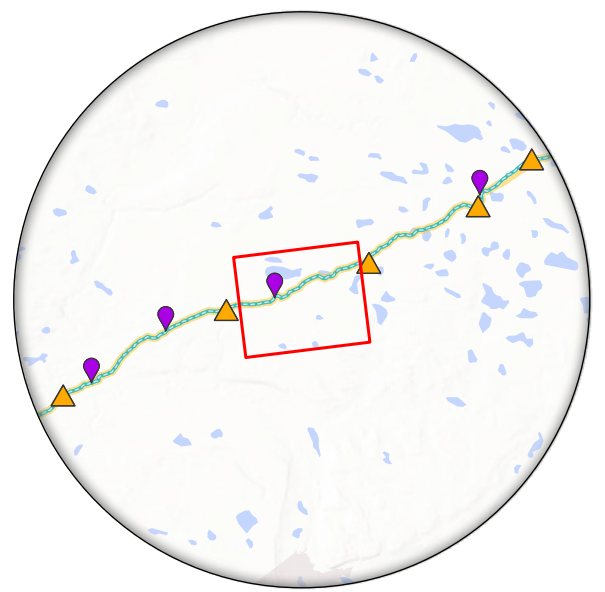


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QC	SW	2025-11-14	NWT Centre for Geomatics		



Mackenzie Valley Winter Road

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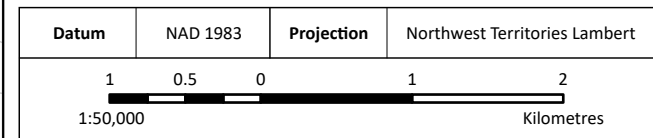
Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

LEGEND

- Watercourse Water Sources
- Waterbody Water Sources
- NWT Communities
- NWT Roads
- Colville Lake Winter Road
- Highway Easements
- Contour Lines

DISCLAIMER

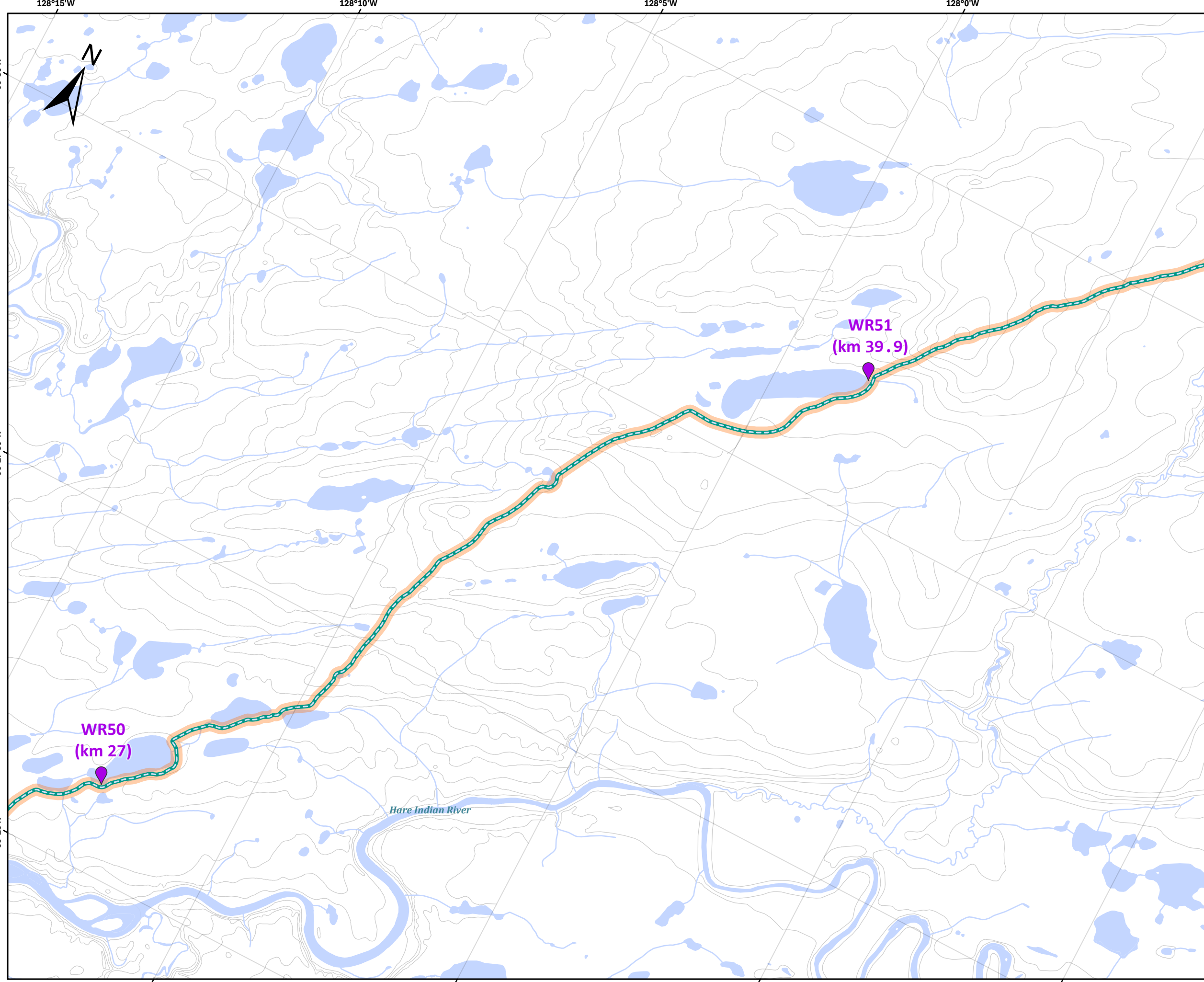
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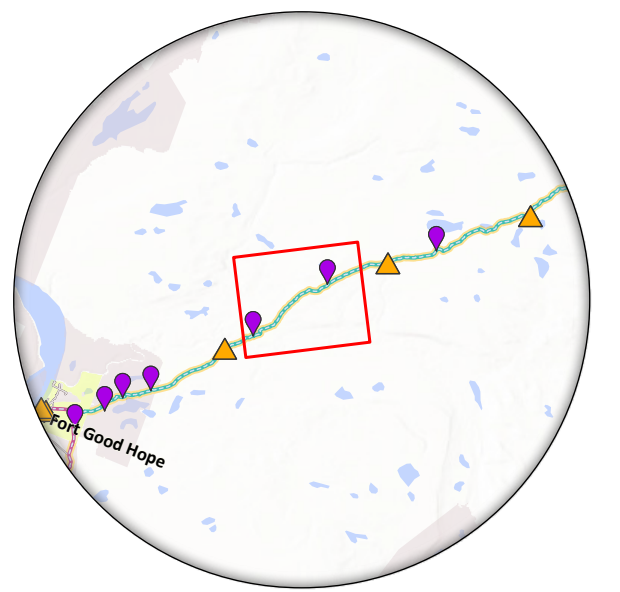
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66°37'30"N 66°35'N 66°32'30"N



Mackenzie Valley Winter Road

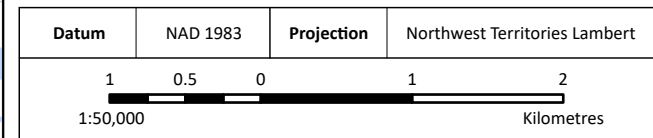
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Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

- LEGEND**
- Watercourse Water Sources
 - Waterbody Water Sources
 - NWT Communities
 - NWT Roads
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GIS	RW	2025-12-18	Doc ID	APRX-850	
QC	SW	2025-11-14	NWT Centre for Geomatics		

128°15'W 128°10'W 128°5'W 128°0'W

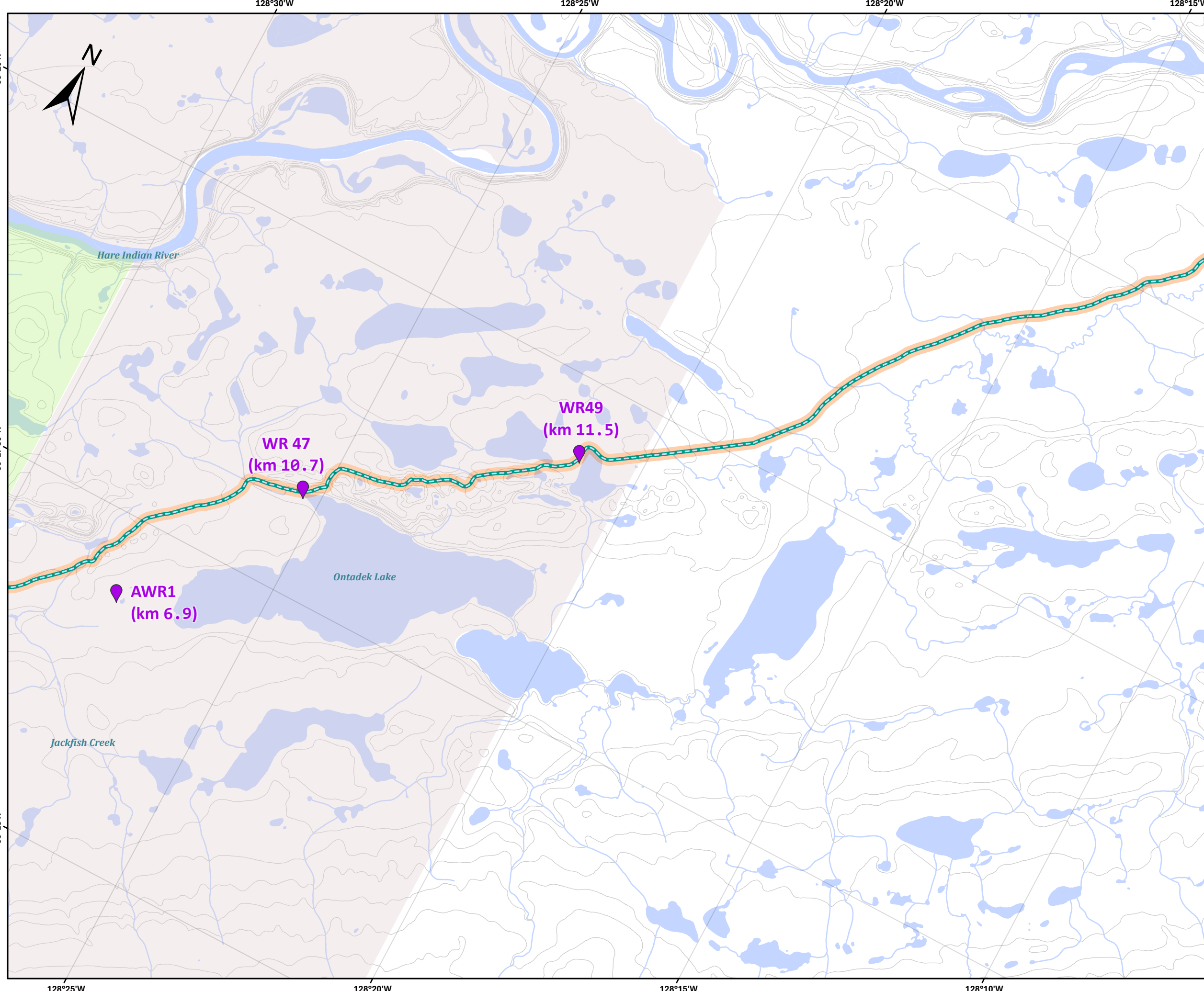
66°30'N 66°27'30"N 66°25'N

128°5'W 128°0'W 127°55'W 127°50'W

Hare Indian River

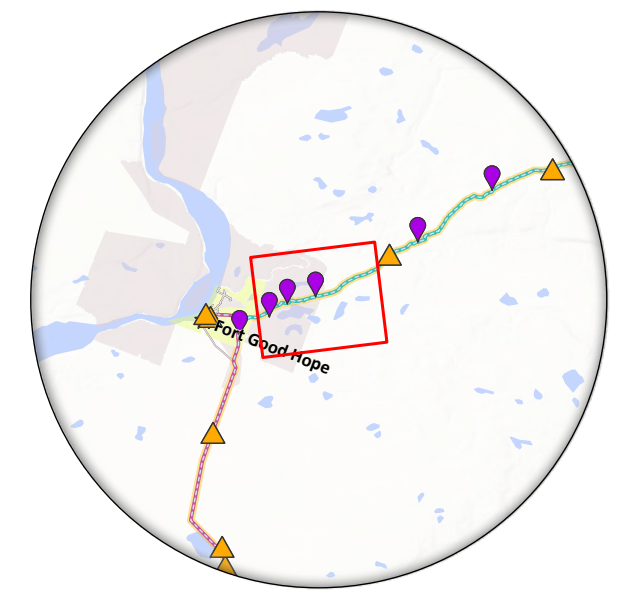
WR50 (km 27)

WR51 (km 39.9)



Mackenzie Valley Winter Road

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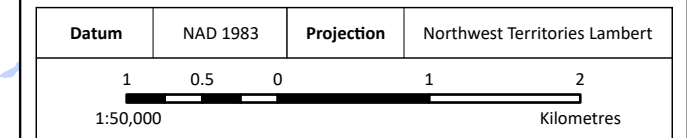
Colville Lake to K'asho Got'ine Charter Community (Fort Good Hope)

LEGEND

- Watercourse Water Sources
- Waterbody Water Sources
- NWT Communities
- NWT Roads
- Colville Lake Winter Road
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GIS	RW	2025-12-18	Doc ID	APRX-850	
QC	SW	2025-11-14	NWT Centre for Geomatics		

128°30'W 128°25'W 128°20'W 128°15'W

66°20'N 66°17'30"N 66°15'N

Hare Indian River

Ontadek Lake

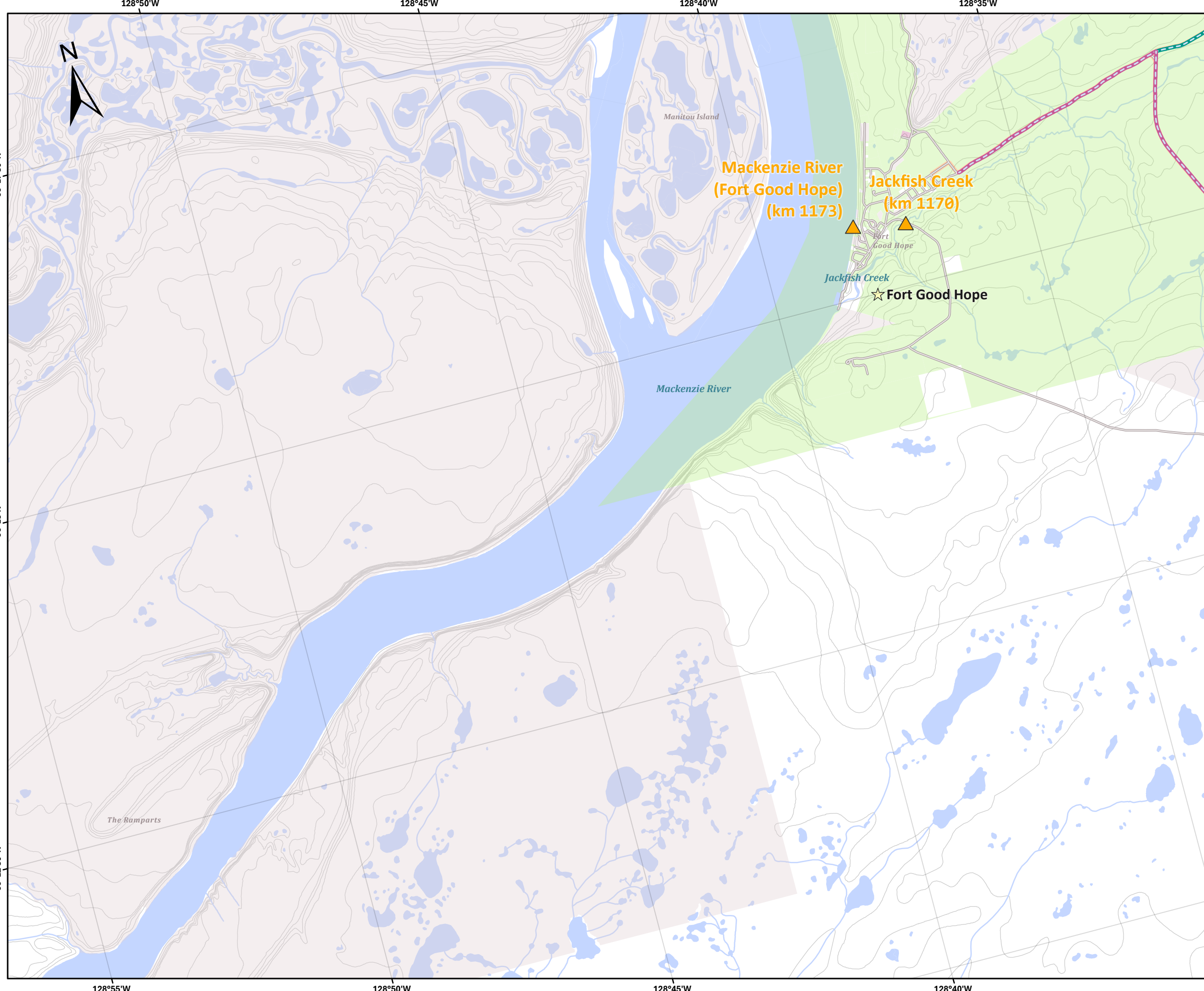
Jackfish Creek

AWR1 (km 6.9)

WR 47 (km 10.7)

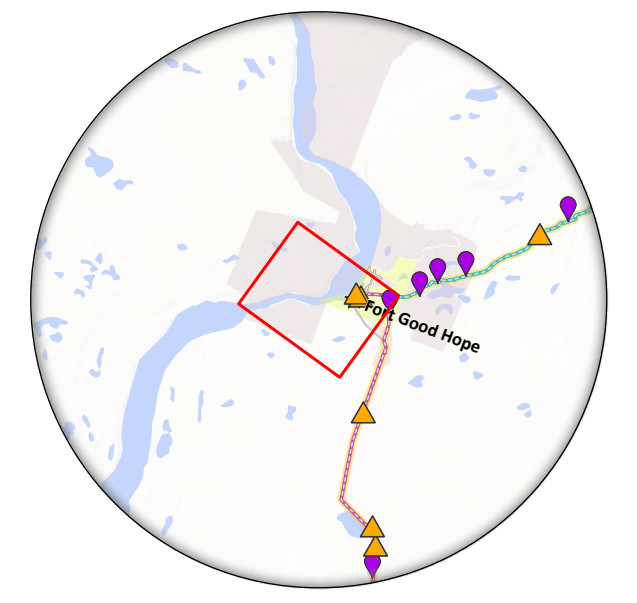
WR49 (km 11.5)

128°25'W 128°20'W 128°15'W 128°10'W



Mackenzie Valley Winter Road

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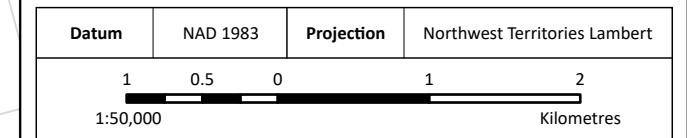


K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells

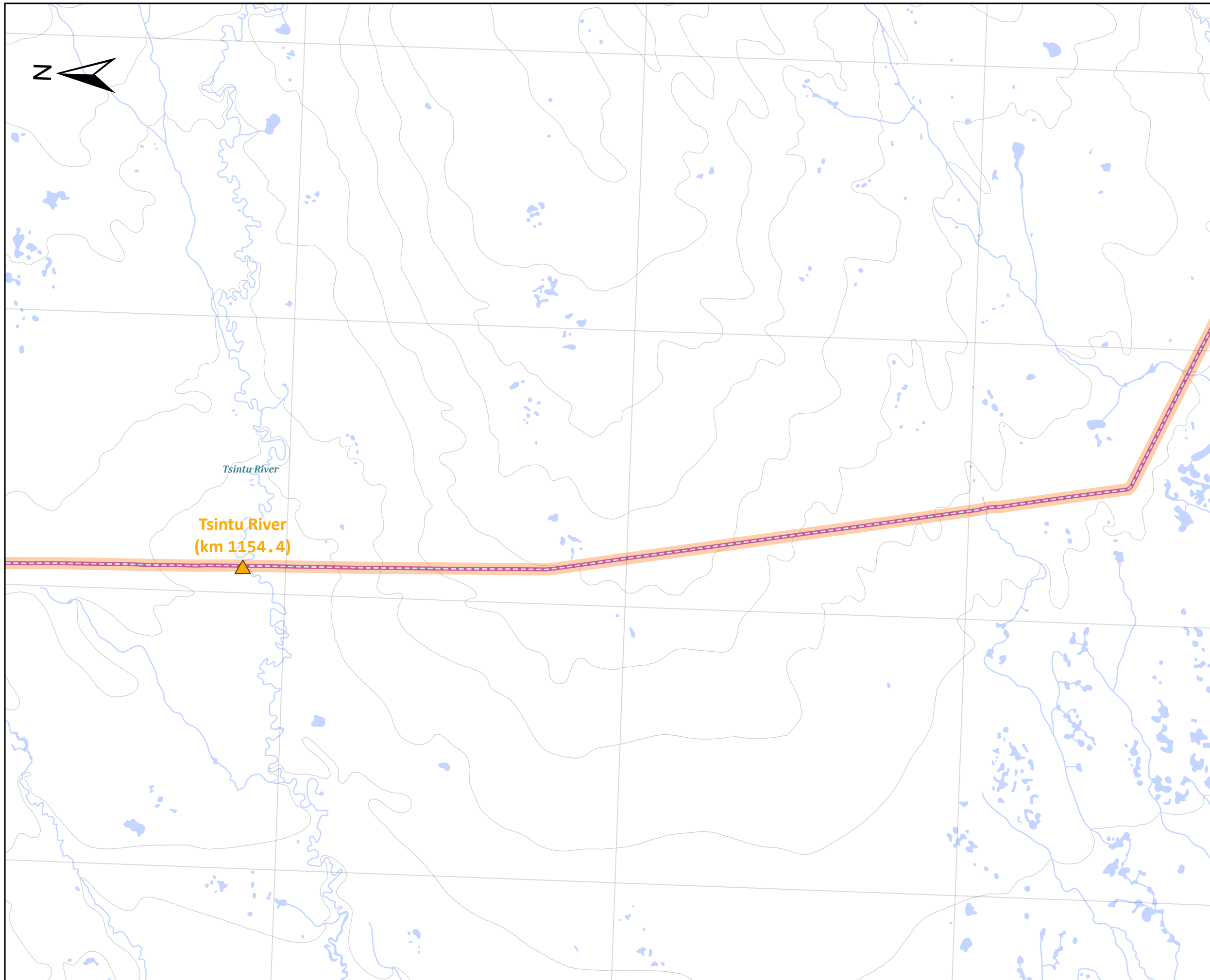
- LEGEND**
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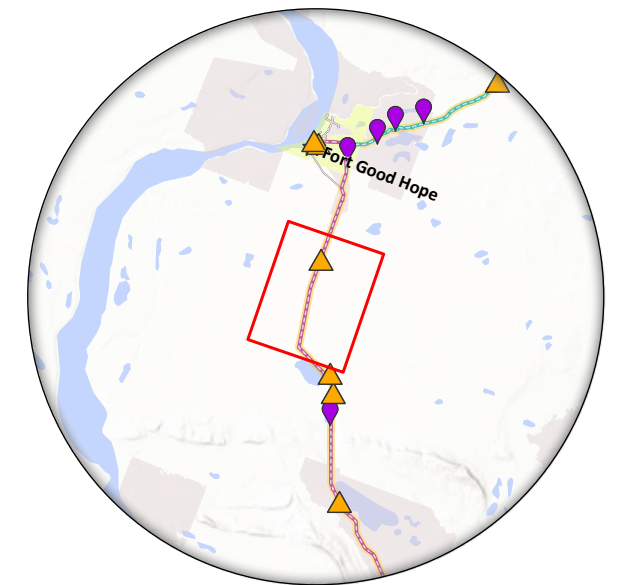


GIS	RW	2025-12-18	Doc ID	APRX-850	
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Mackenzie Valley Winter Road

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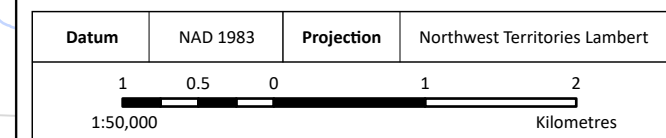
K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells


LEGEND

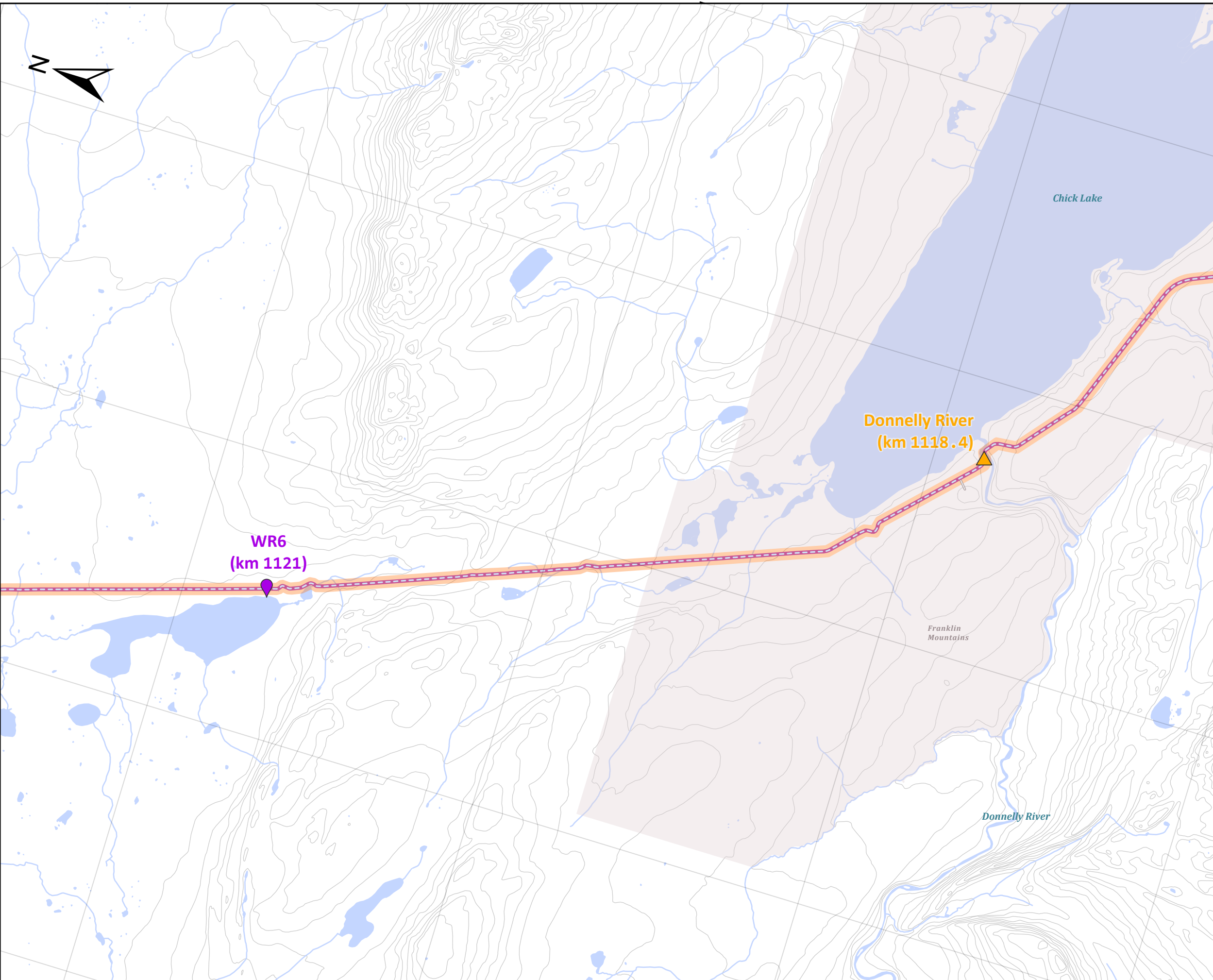
-  Watercourse Water Sources
-  Waterbody Water Sources
-  NWT Communities
-  NWT Roads
-  Mackenzie Valley Winter Road
-  Highway Easements
-  Contour Lines

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Mackenzie Valley Winter Road



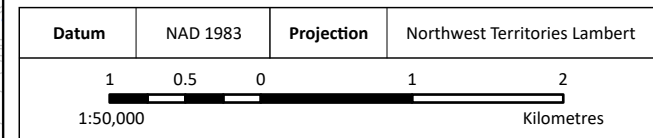
K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells

LEGEND

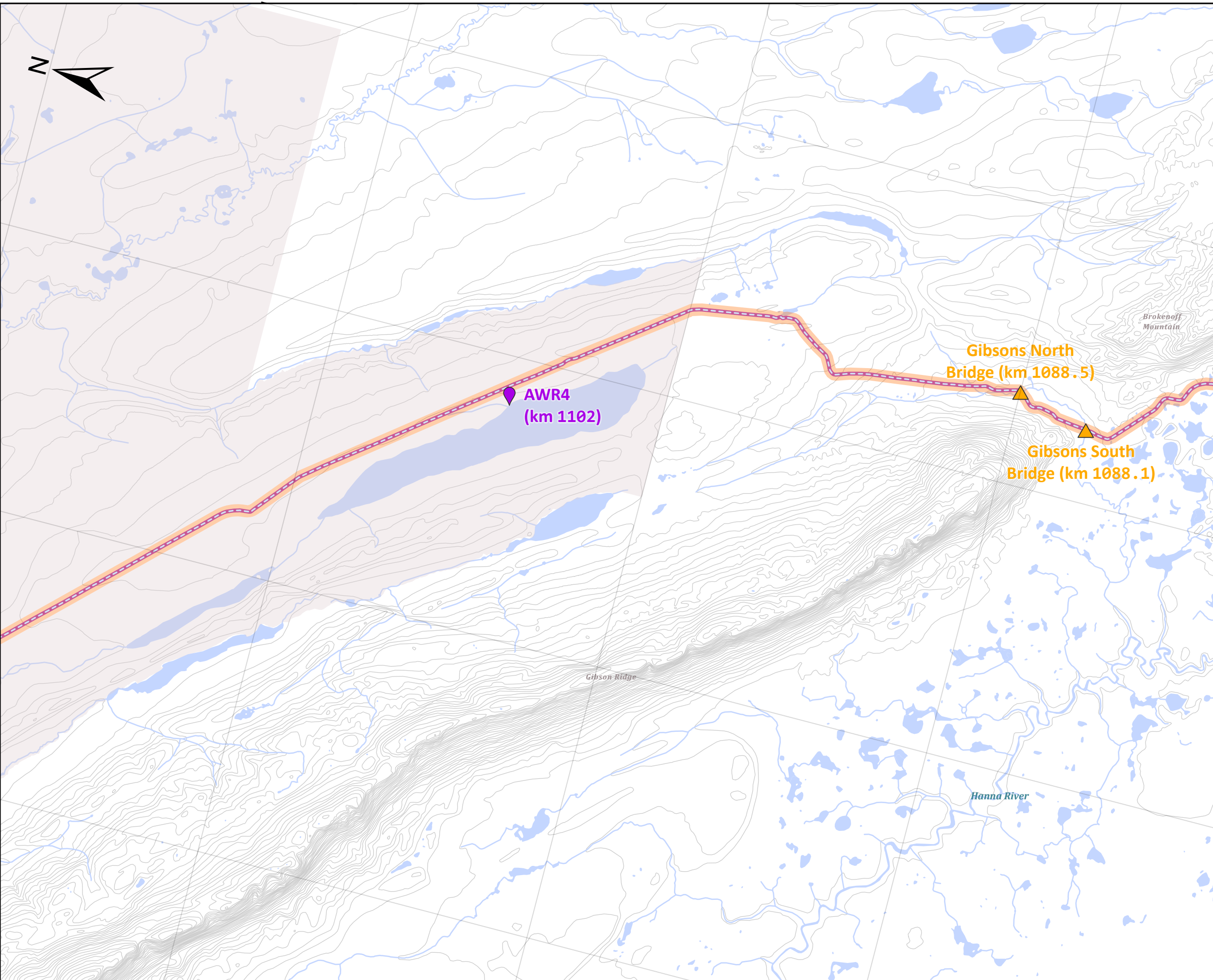
- Watercourse Water Sources
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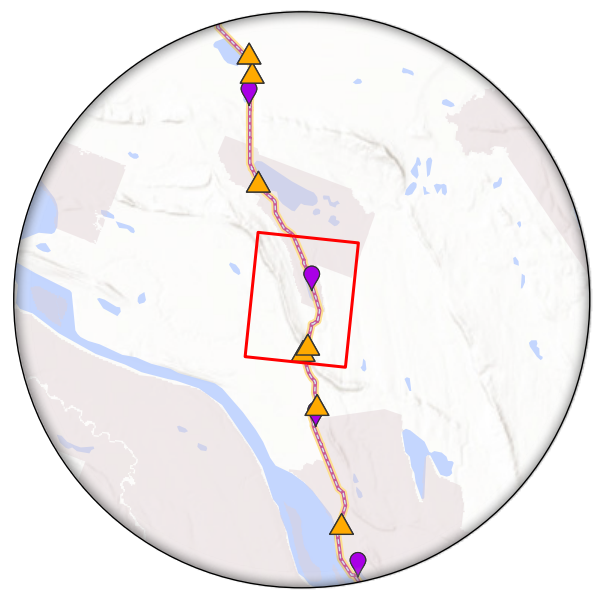
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Mackenzie Valley Winter Road



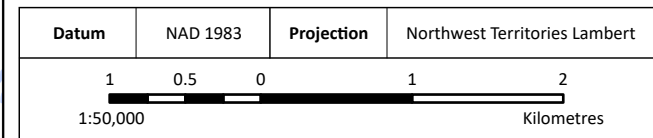
K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells

LEGEND

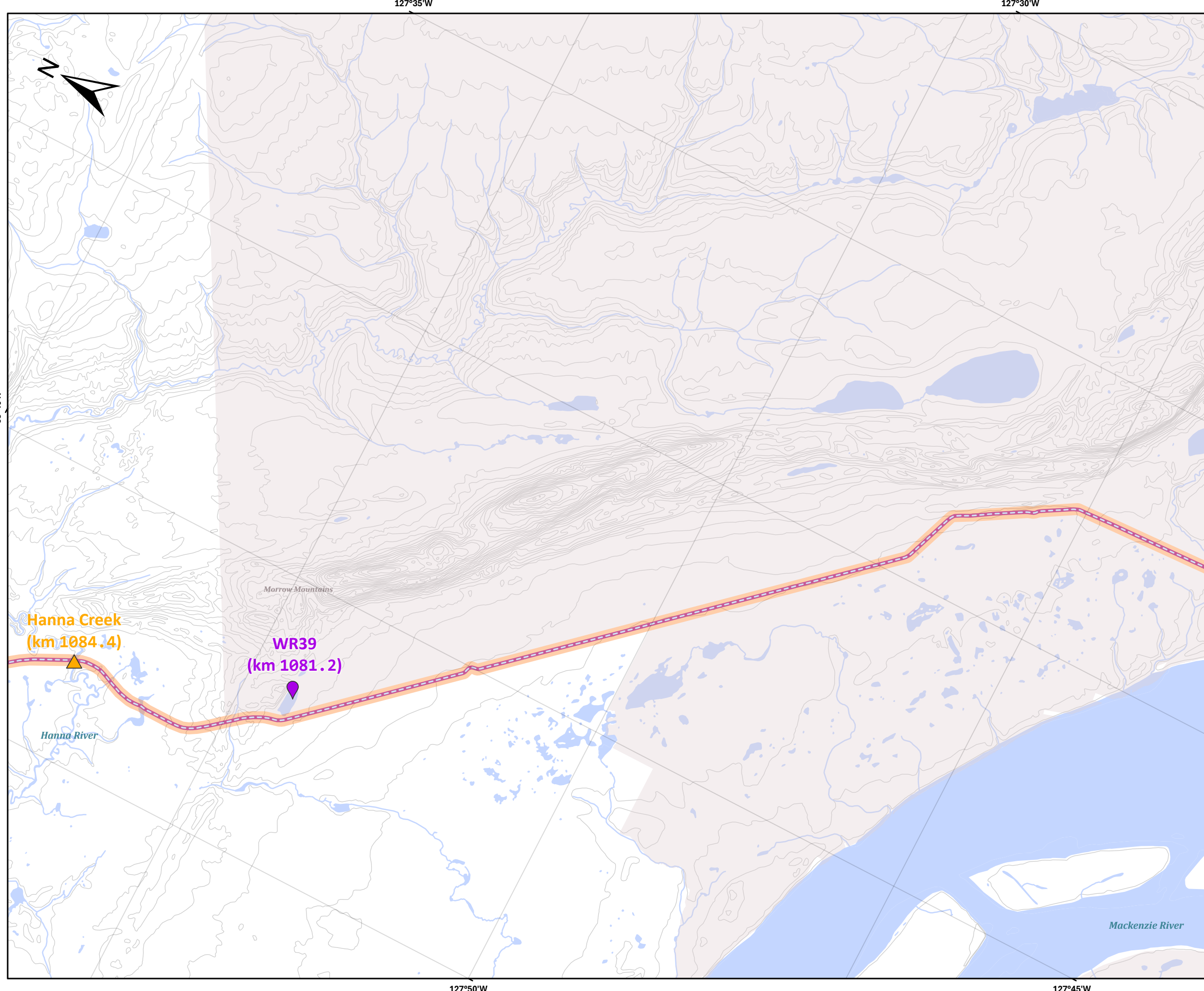
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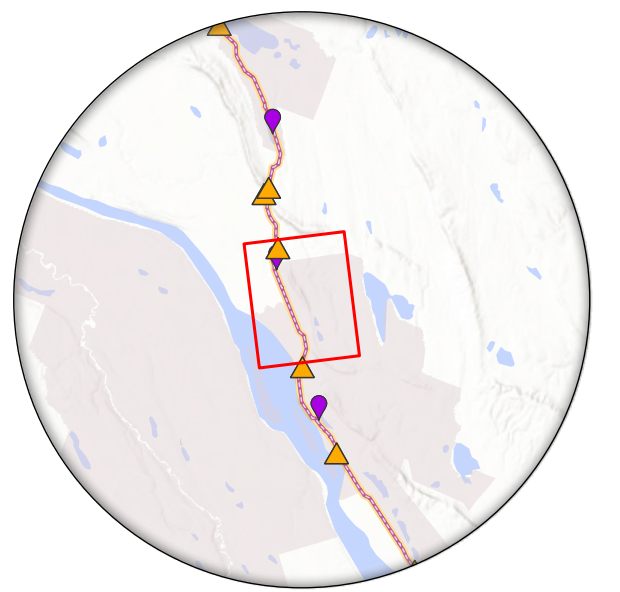


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Mackenzie Valley Winter Road

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K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells

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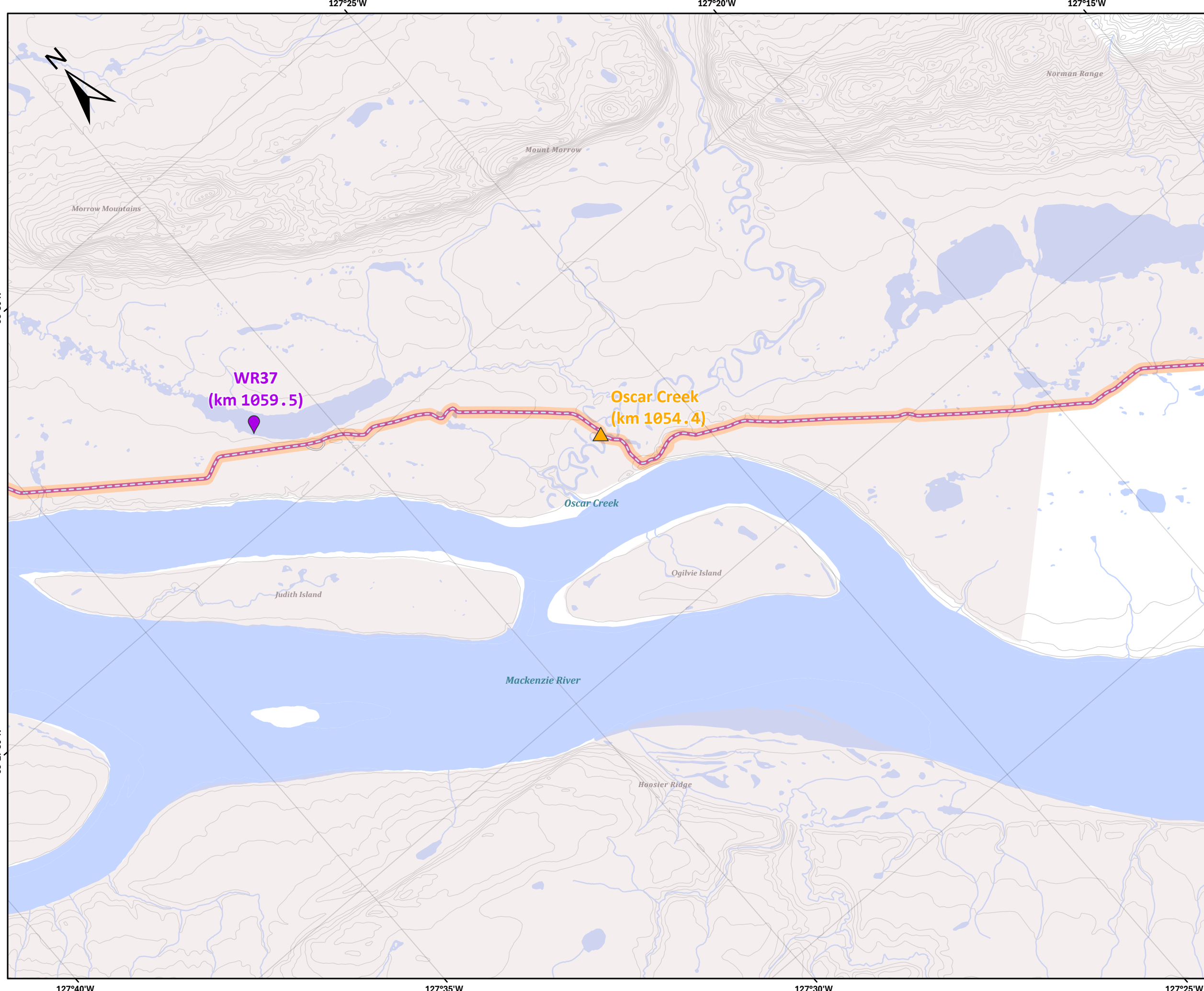
65°40'N

127°35'W

127°30'W

127°50'W

127°45'W



Mackenzie Valley Winter Road

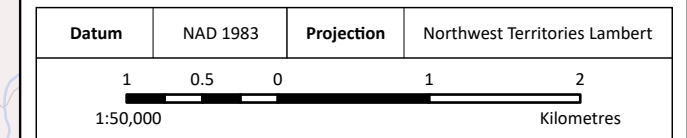
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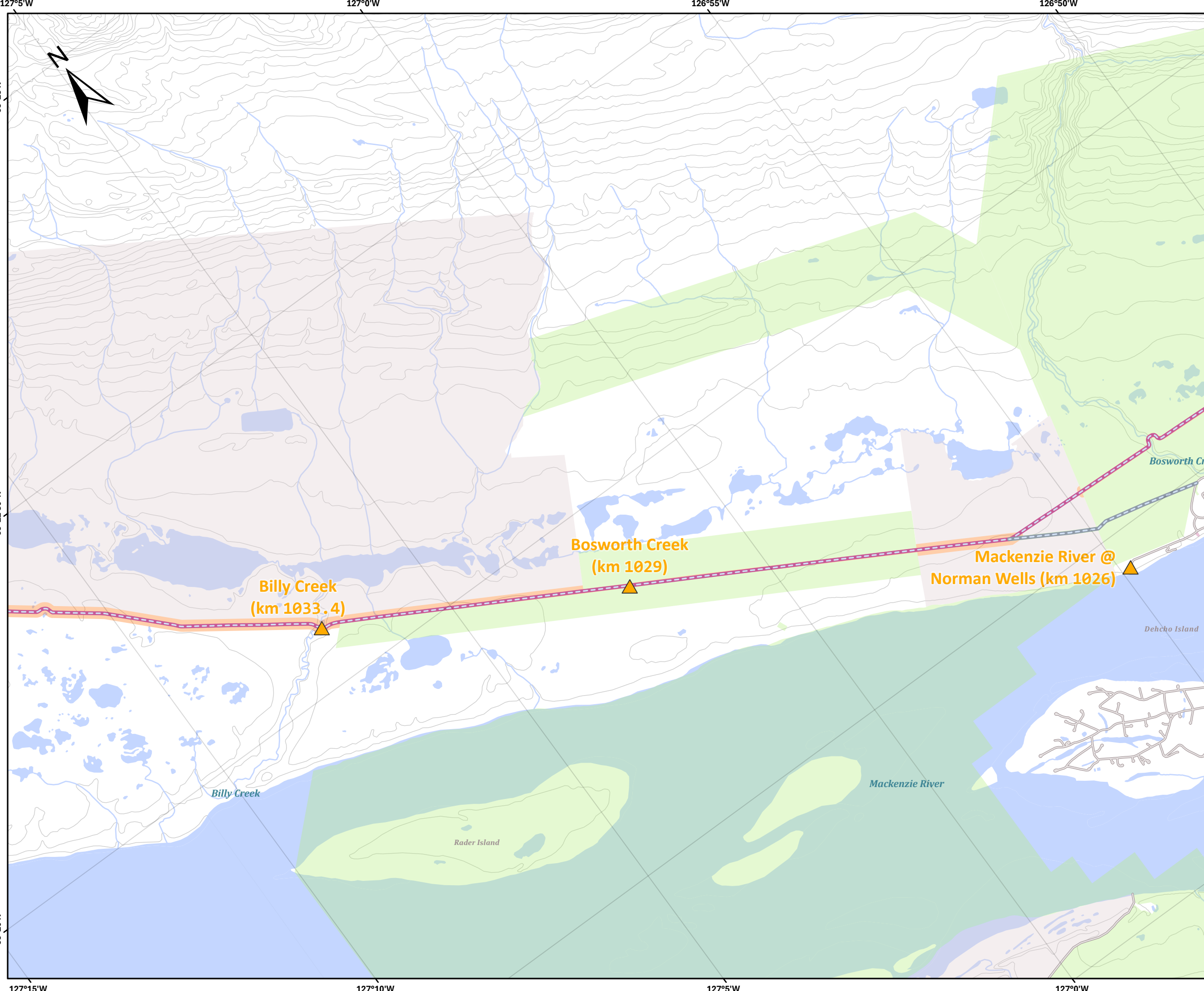
K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells

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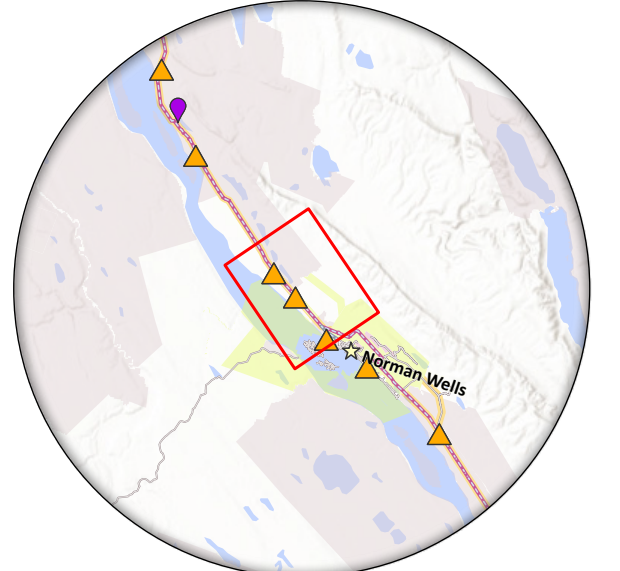


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Mackenzie Valley Winter Road

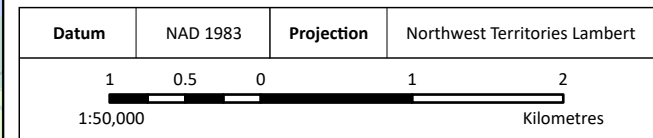
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K'asho Got'ine Charter Community (Fort Good Hope) to Norman Wells

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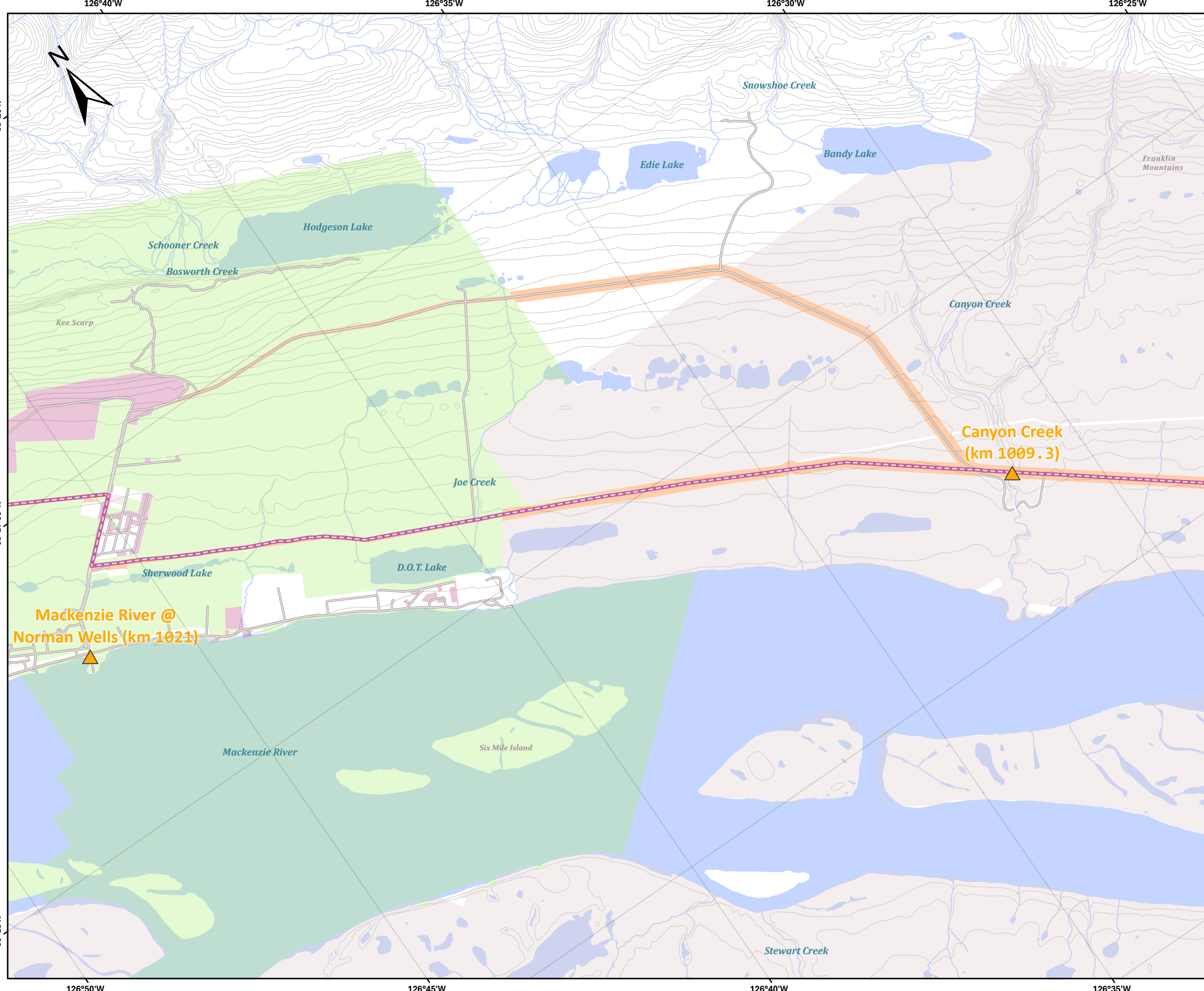


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QC	SW	2025-11-14	NWT Centre for Geomatics		

127°5'W 127°0'W 126°55'W 126°50'W

65°25'N 65°22'30"N 65°20'N

127°15'W 127°10'W 127°5'W 127°0'W



Mackenzie Valley Winter Road

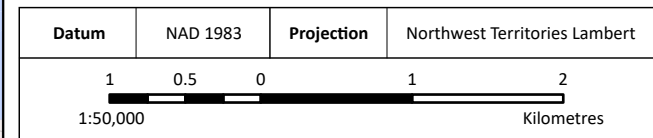
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Norman Wells to Tulita

- LEGEND**
- Watercourse Water Sources
 - Waterbody Water Sources
 - NWT Communities
 - NWT Roads
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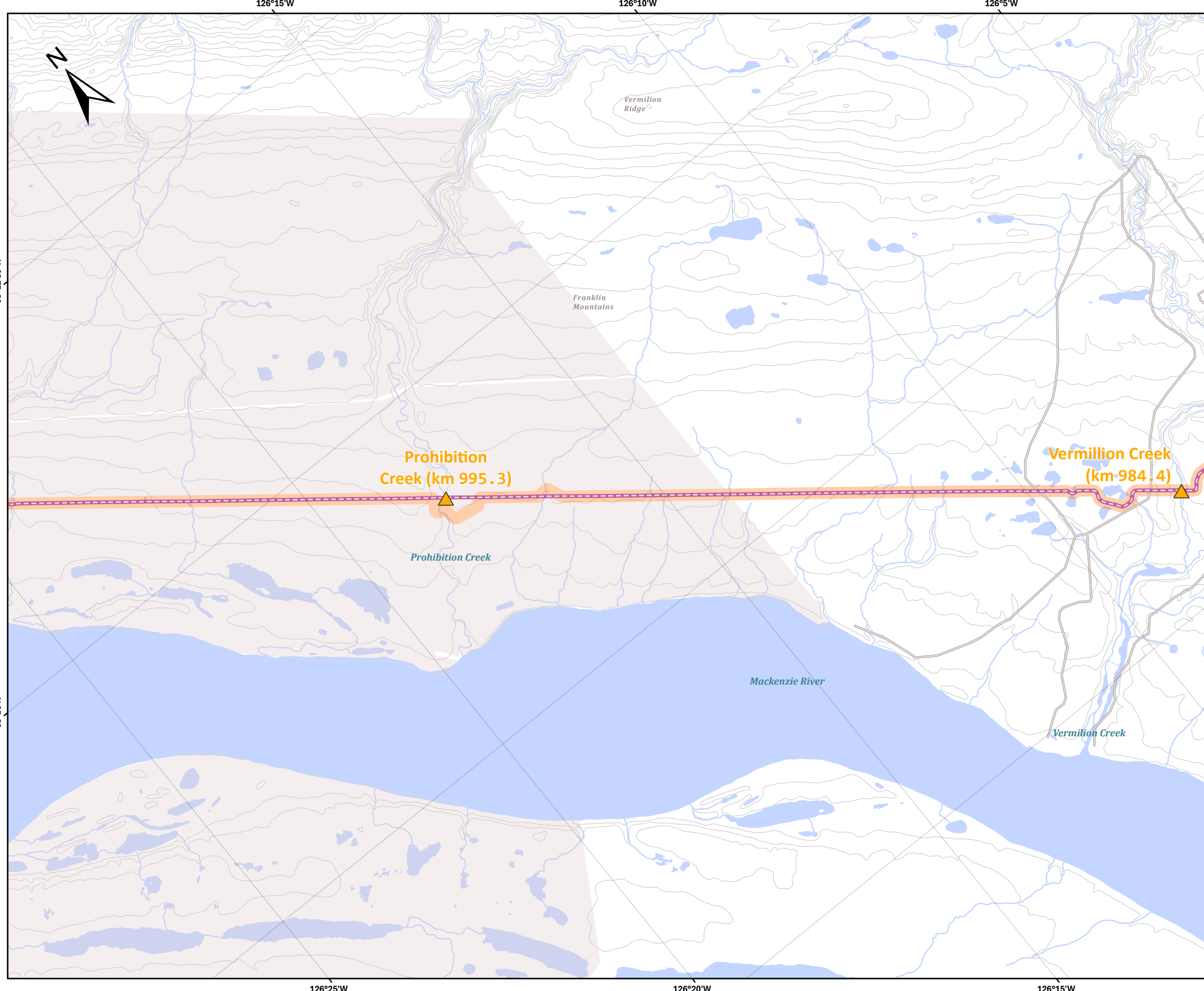
126°40'W 126°35'W 126°30'W 126°25'W

65°20'N

65°17'30"N

65°15'N

126°50'W 126°45'W 126°40'W 126°35'W



Mackenzie Valley Winter Road

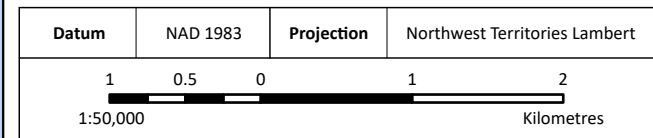
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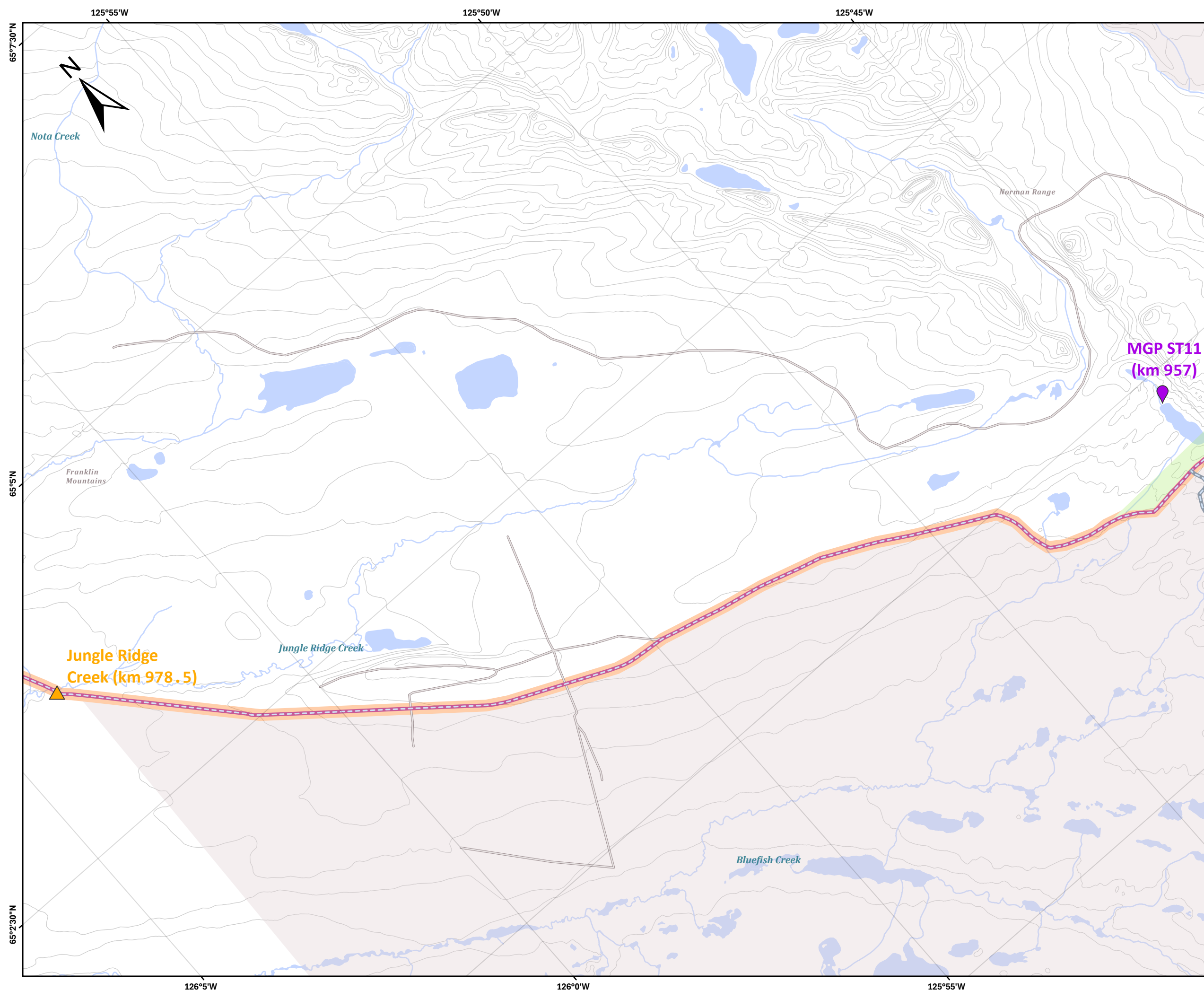
Norman Wells to Tulita

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 - Contour Lines

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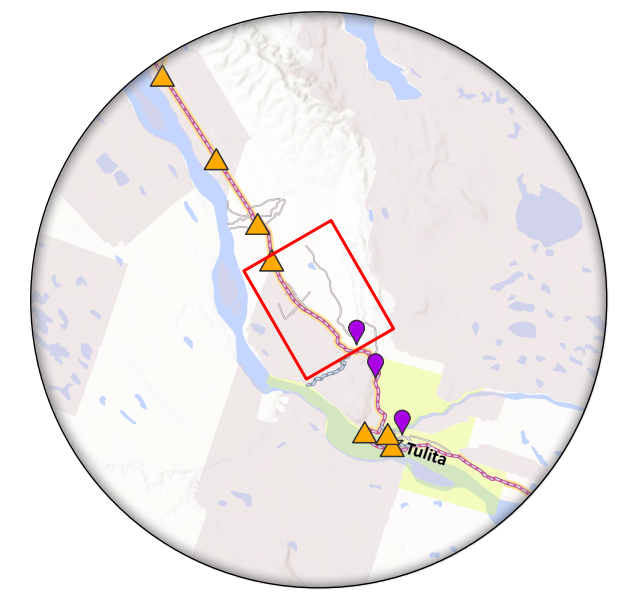


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QC	SW	2025-11-14	NWT Centre for Geomatics		



Mackenzie Valley Winter Road

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Norman Wells to Tulita

LEGEND

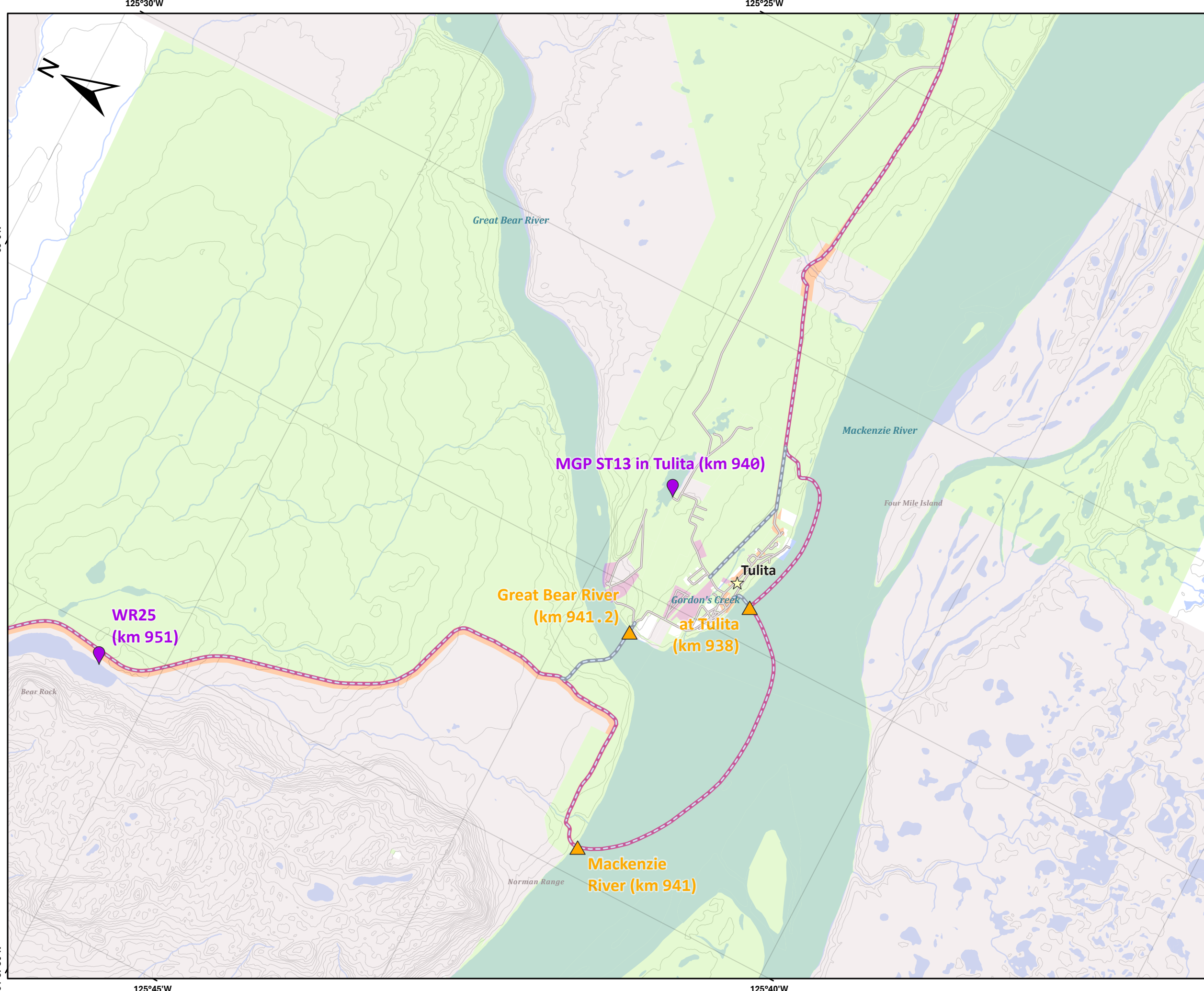
- Watercourse Water Sources
- Waterbody Water Sources
- NWT Communities
- NWT Roads
- Winter Roads
- Mackenzie Valley Winter Road
- Highway Easements
- Commissioner's Land
- Sahtu Land
- Contour Lines

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Mackenzie Valley Winter Road

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Norman Wells to Tulita

- LEGEND**
- Watercourse Water Sources
 - Waterbody Water Sources
 - NWT Communities
 - NWT Roads
 - Winter Roads
 - Mackenzie Valley Winter Road
 - Highway Easements
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GIS	RW	2025-12-18	Doc ID	APRX-850	
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125°30'W

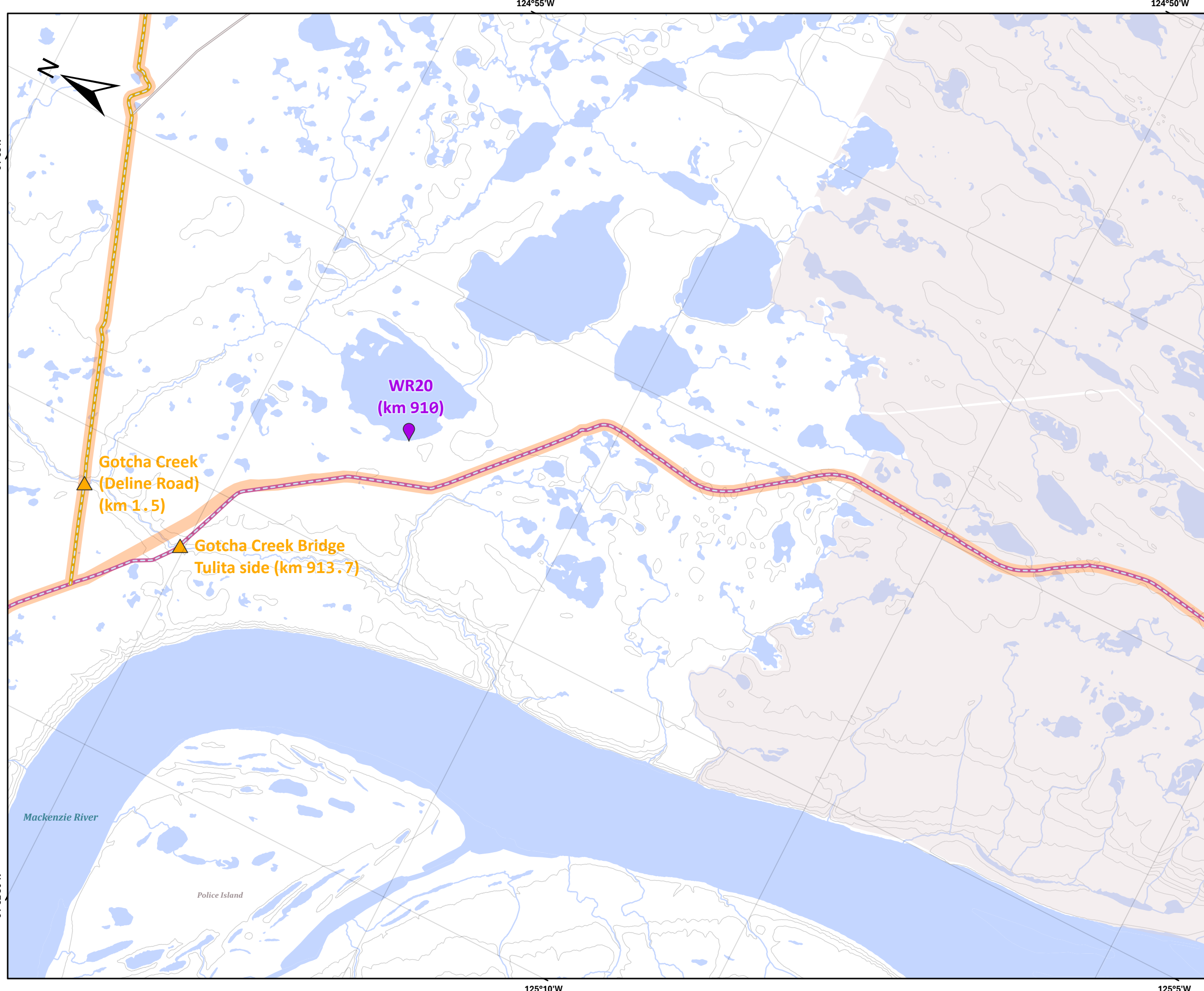
125°25'W

65°0'N

64°57'30"N

125°45'W

125°40'W



Mackenzie Valley Winter Road

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Tulita to Délne

- LEGEND**
- Watercourse Water Sources
 - Waterbody Water Sources
 - NWT Communities
 - NWT Roads
 - Délne Winter Road
 - Mackenzie Valley Winter Road
 - Highway Easements
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1:50,000 Kilometres			

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64°55'N

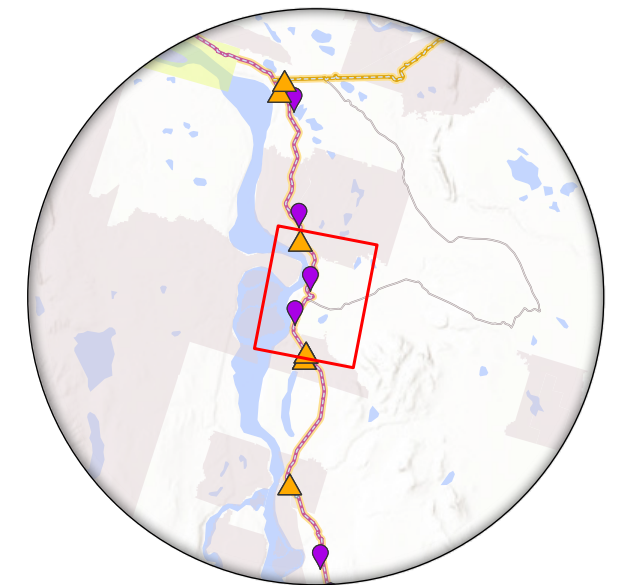
64°52'30"N

124°55'W 124°50'W

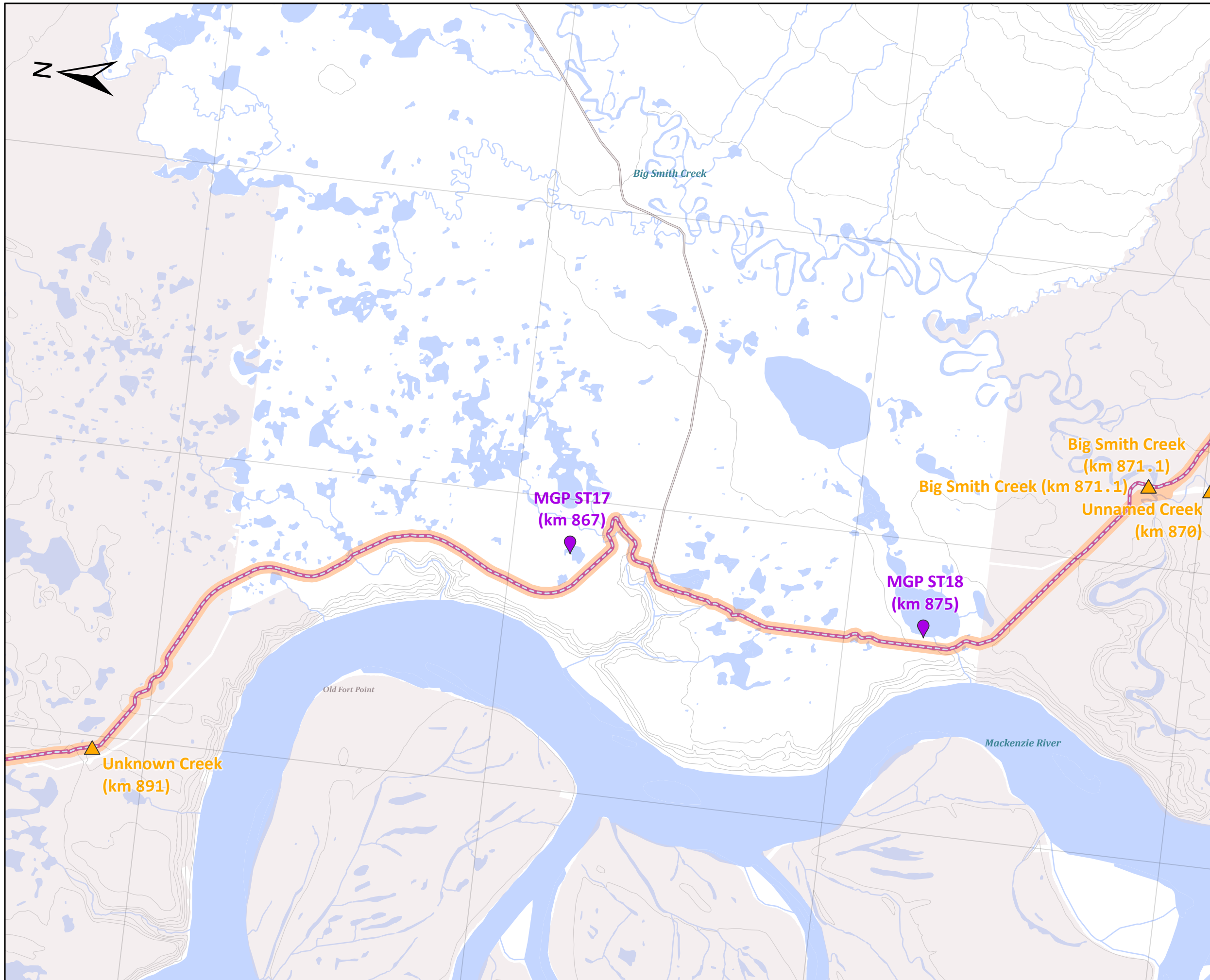
125°10'W 125°5'W

Mackenzie Valley Winter Road

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Tulita to Wrigley

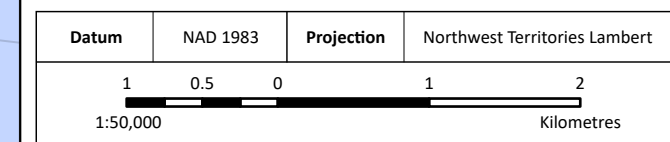


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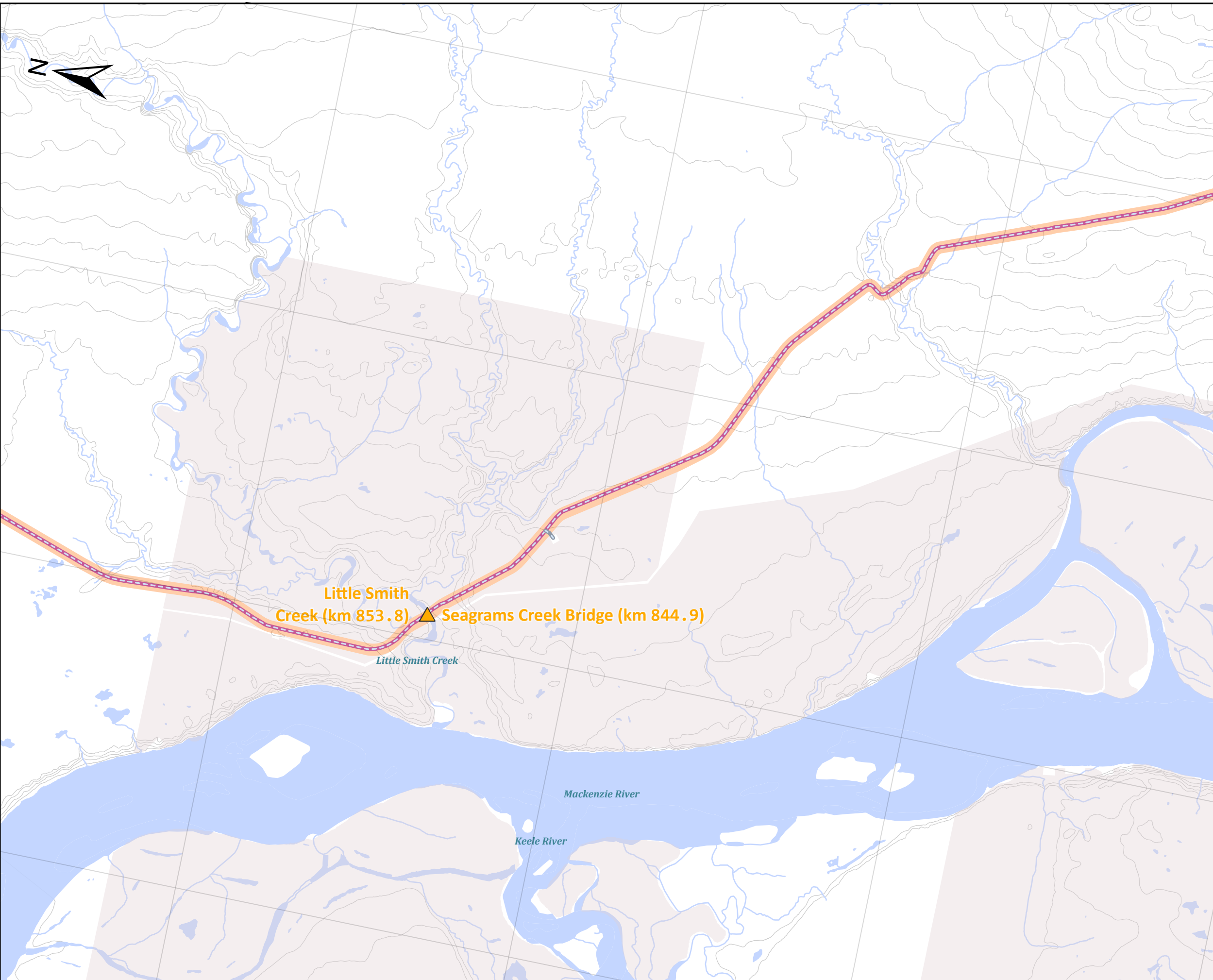
- Watercourse Water Sources
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- NWT Roads
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- Contour Lines

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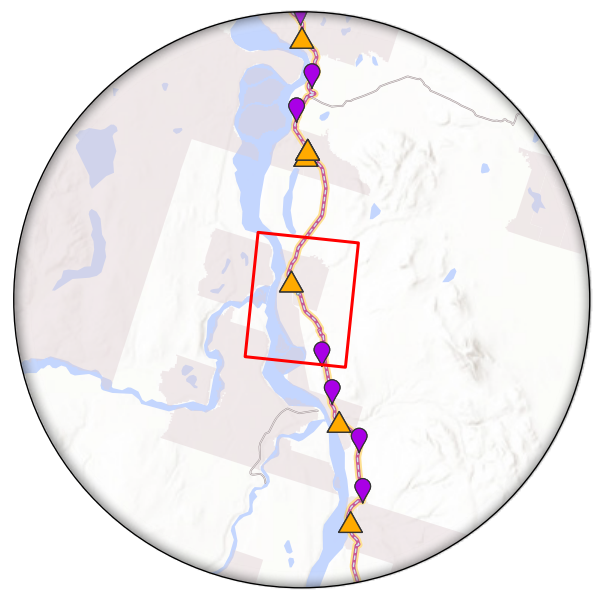
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QC	SW	2025-11-14	NWT Centre for Geomatics		



Mackenzie Valley Winter Road



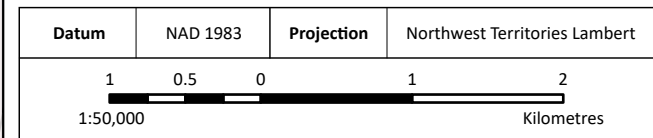
Tulita to Wrigley

LEGEND

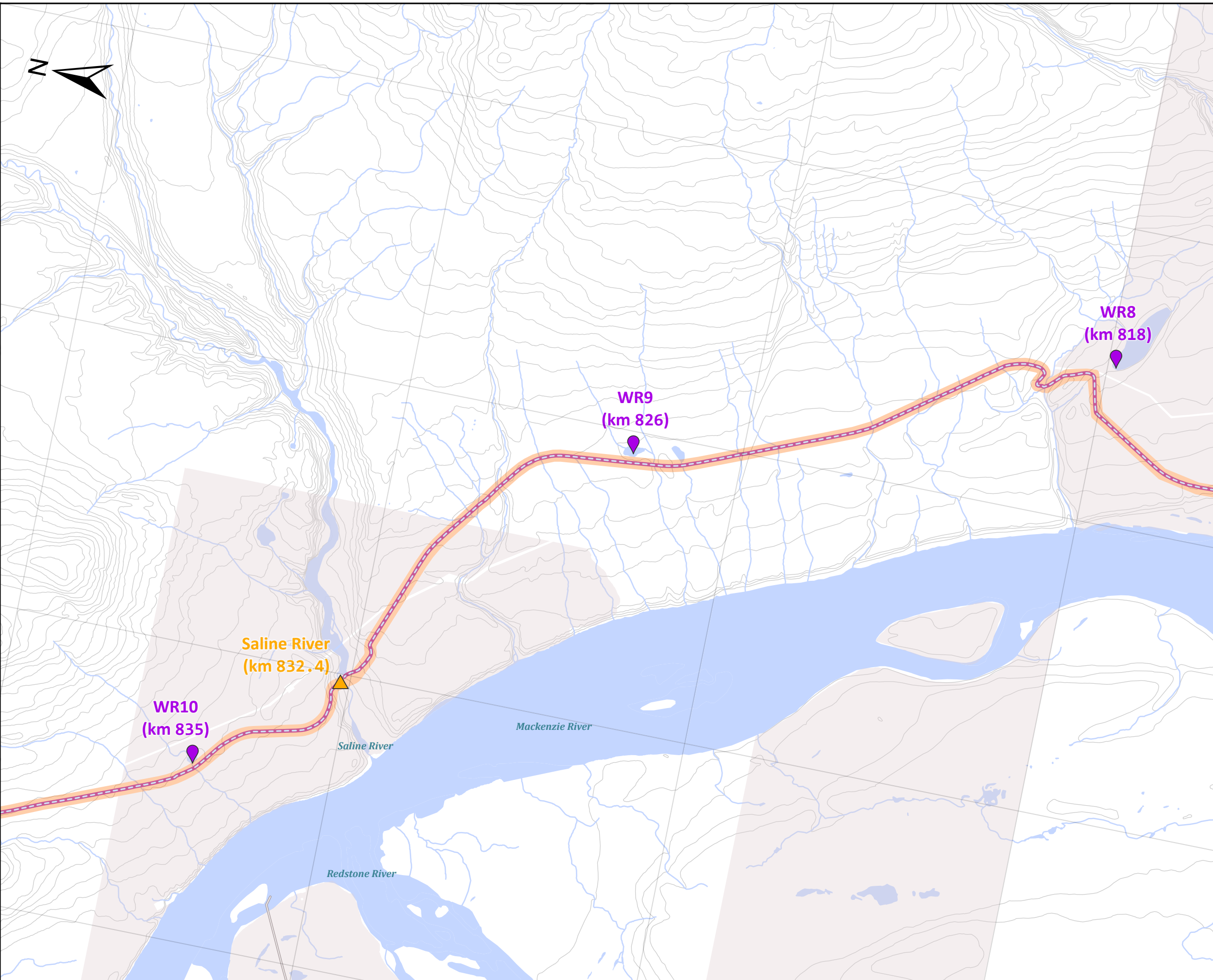
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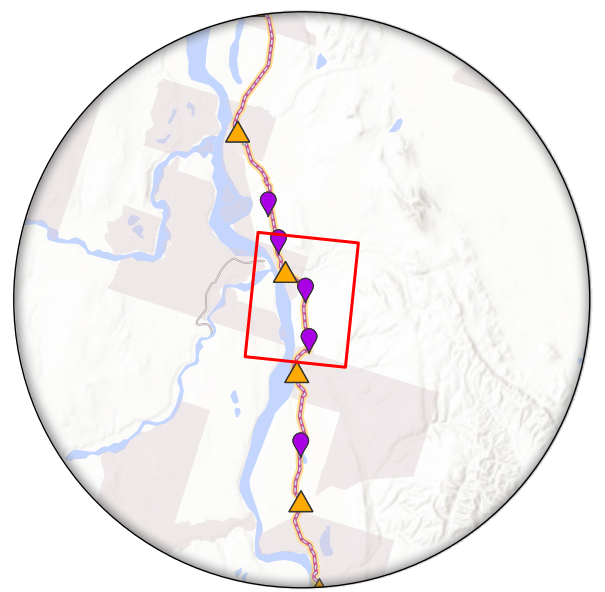
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Mackenzie Valley Winter Road



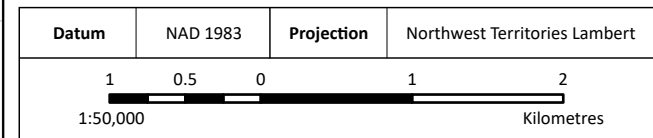
Tulita to Wrigley

LEGEND

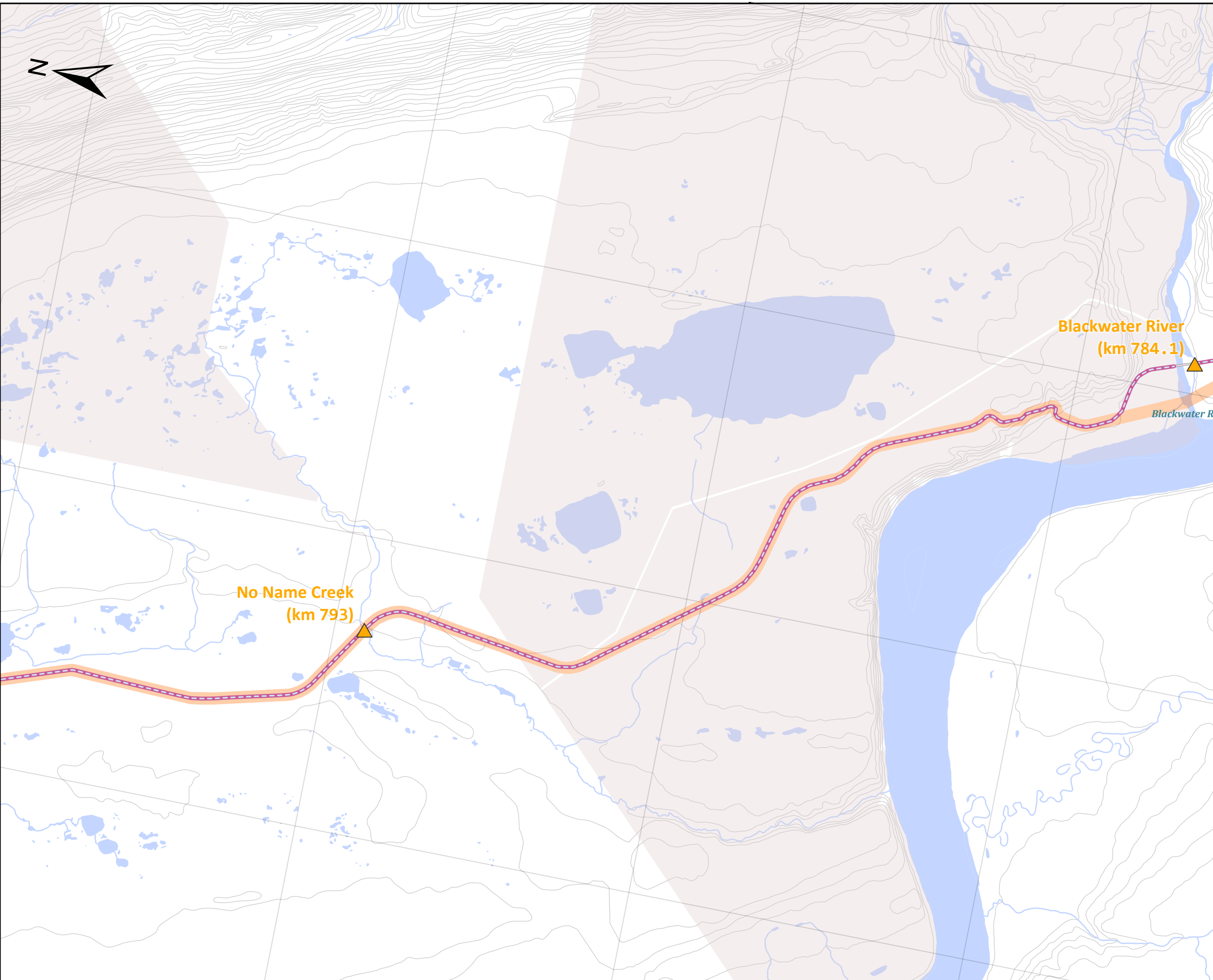
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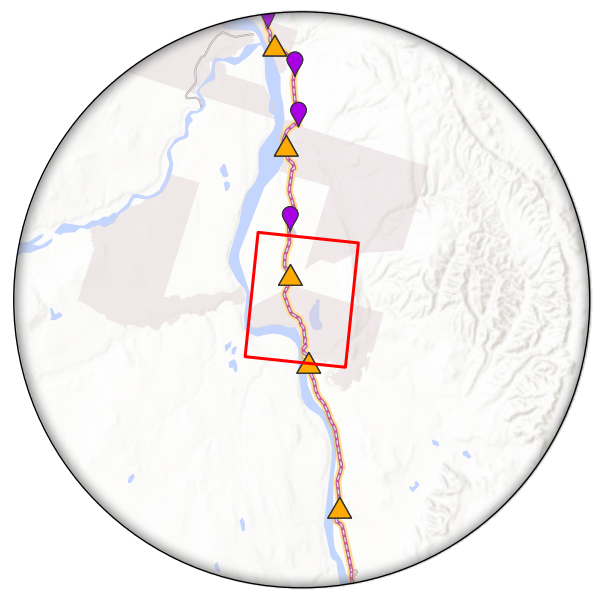


GIS	RW	2025-12-18	Doc ID	APRX-850	
QC	SW	2025-11-14	NWT Centre for Geomatics		



Mackenzie Valley Winter Road

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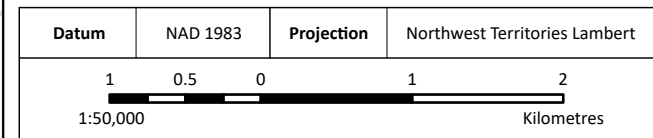
Tulita to Wrigley

LEGEND

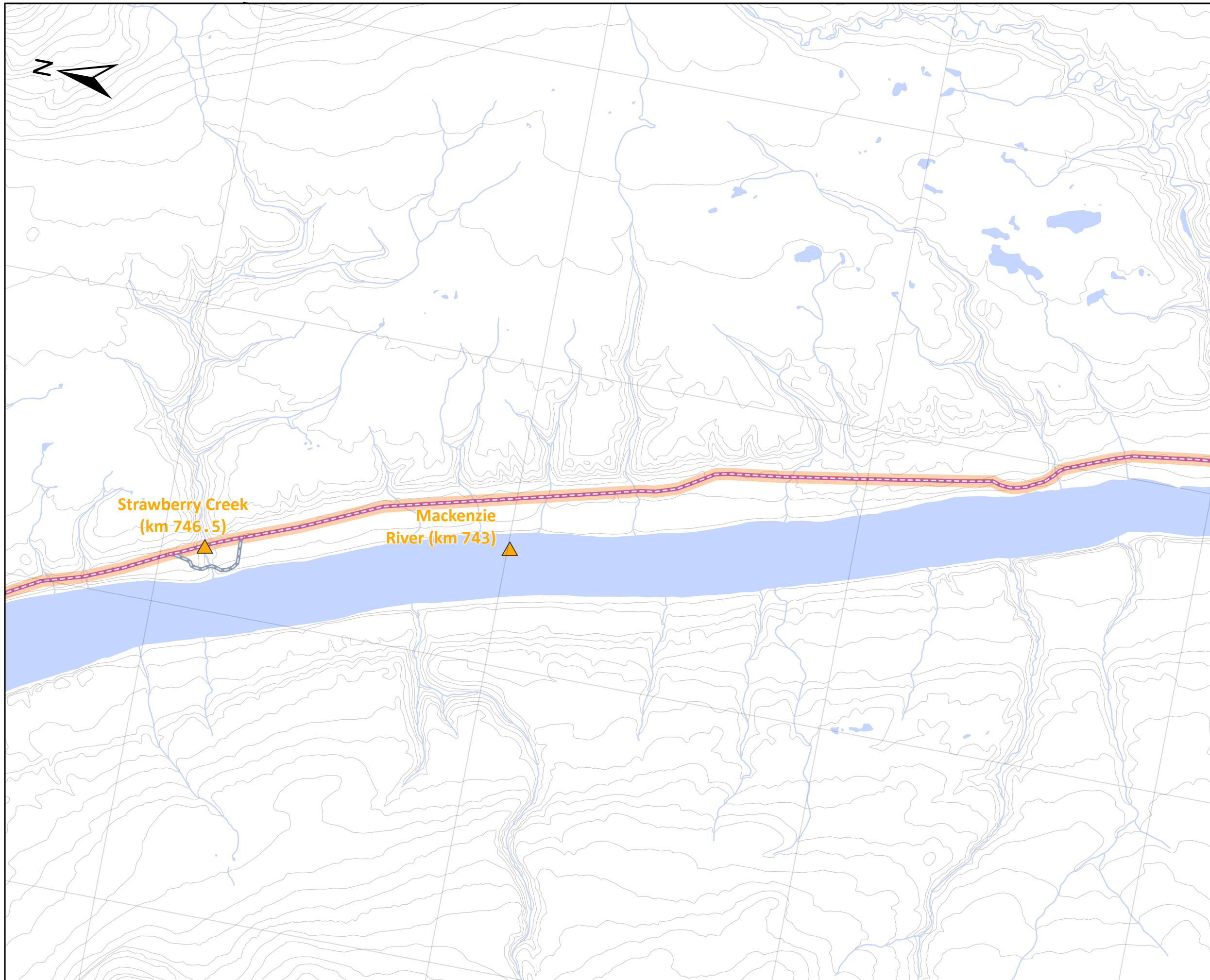
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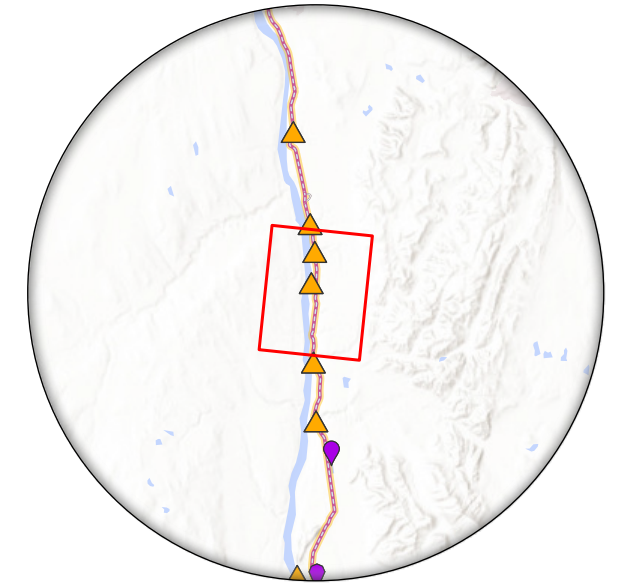


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Mackenzie Valley Winter Road

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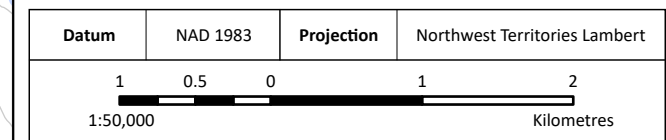
Tulita to Wrigley

LEGEND

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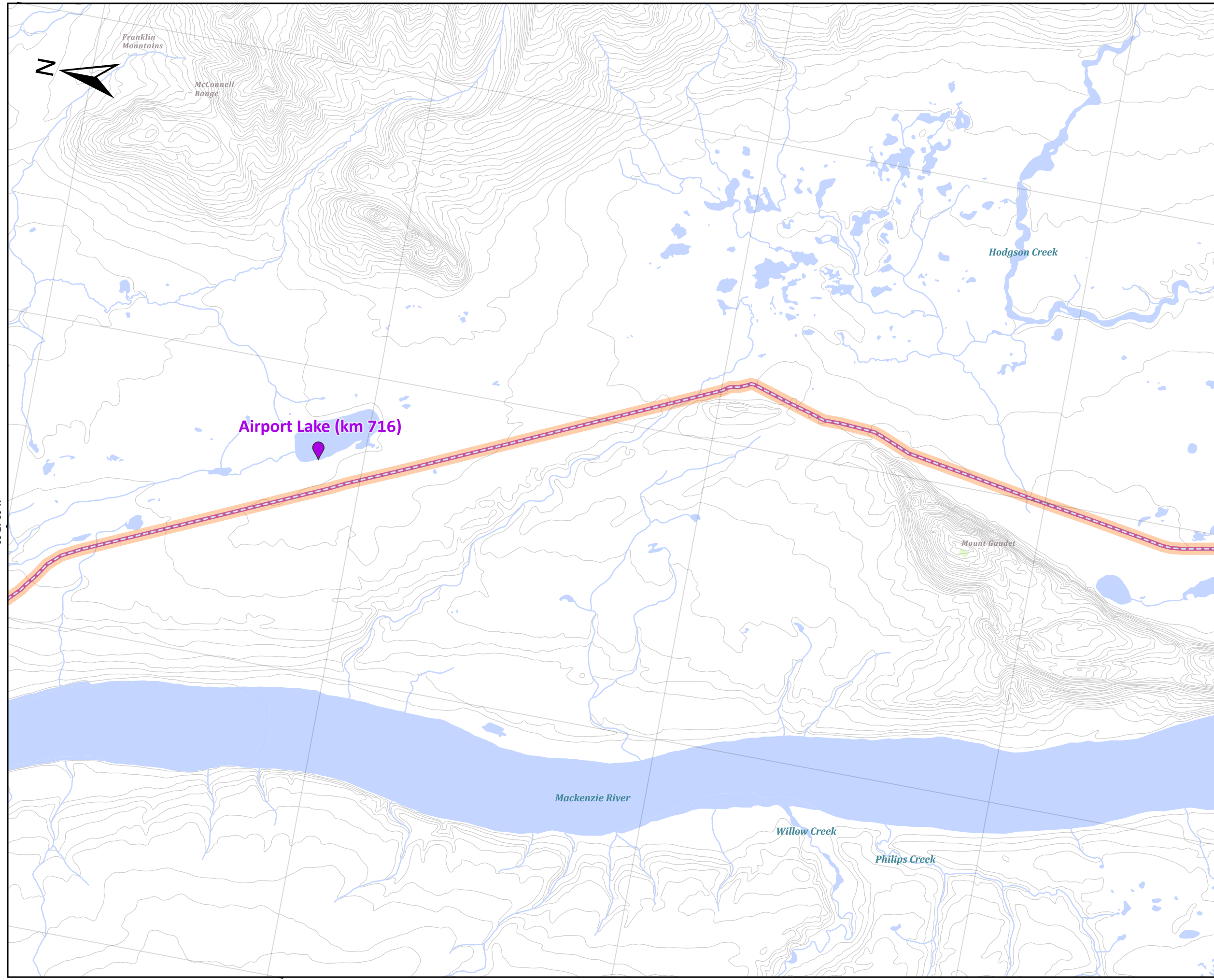
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GIS	RW	2025-12-18	Doc ID	APRX-850	
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123°30'W

63°27'30"N



Airport Lake (km 716)

Hodgson Creek

Mount Gaudet

Mackenzie River

Willow Creek

Philips Creek

Wrigley

Mackenzie Valley Winter Road

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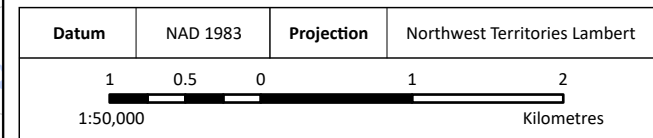
Tulita to Wrigley

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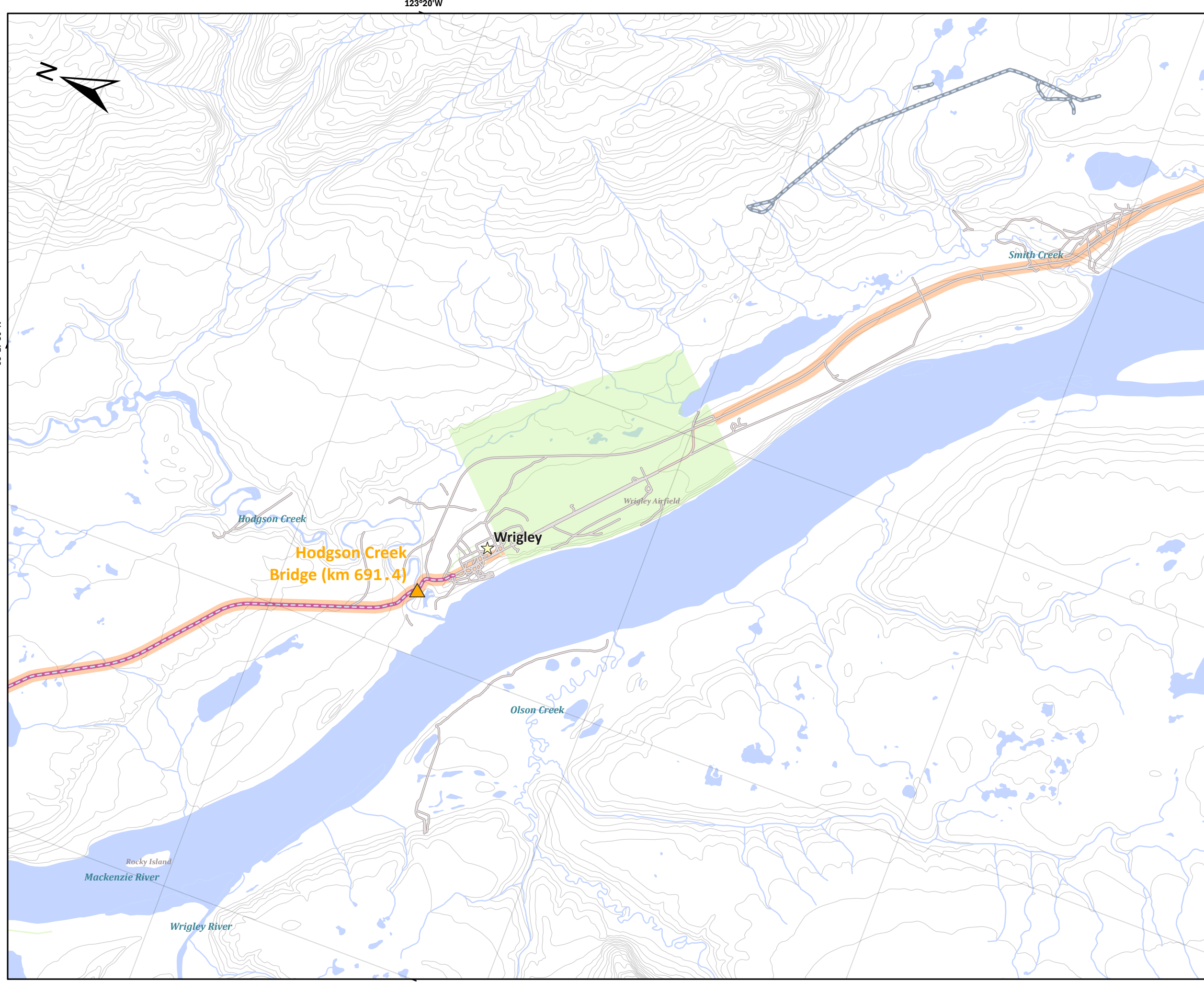
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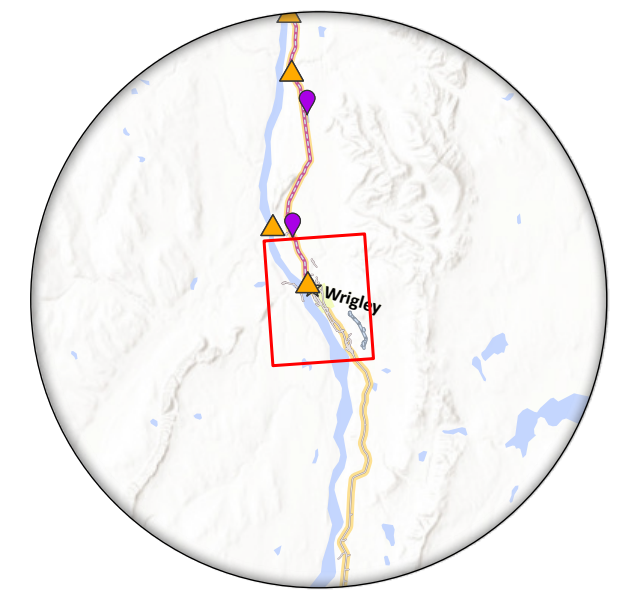
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QC	SW	2025-11-14	NWT Centre for Geomatics		

123°45'W



Mackenzie Valley Winter Road

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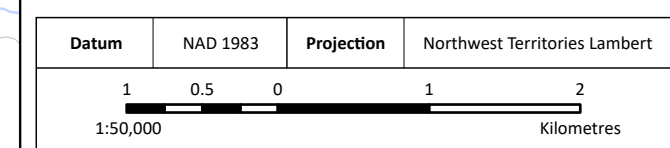
Tulita to Délne

LEGEND

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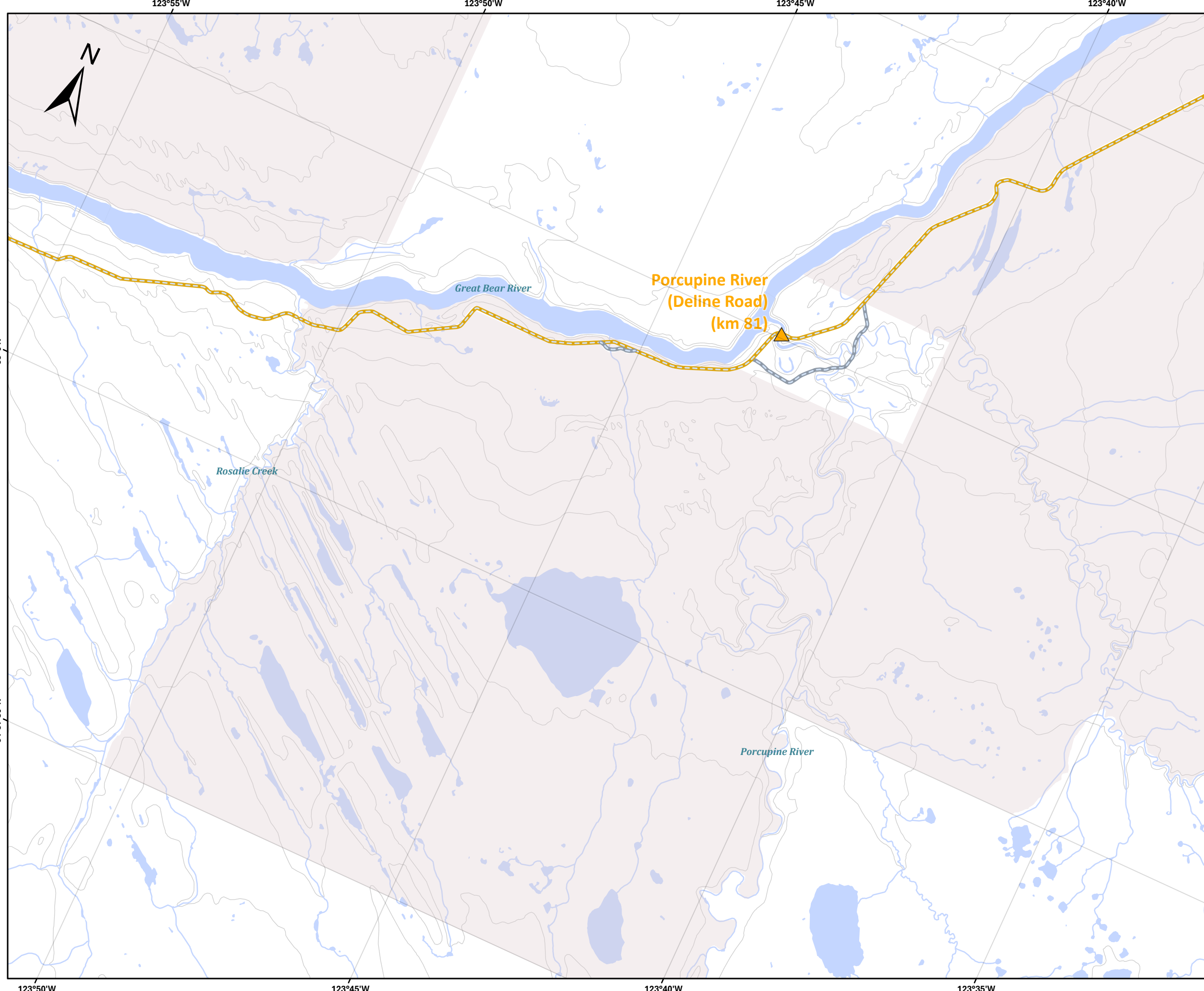


GIS	RW	2025-12-18	Doc ID	APRX-850	
QC	SW	2025-11-14	NWT Centre for Geomatics		

123°20'W

63°17'30" N

123°35'W



Mackenzie Valley Winter Road

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Tulita to Délne

LEGEND

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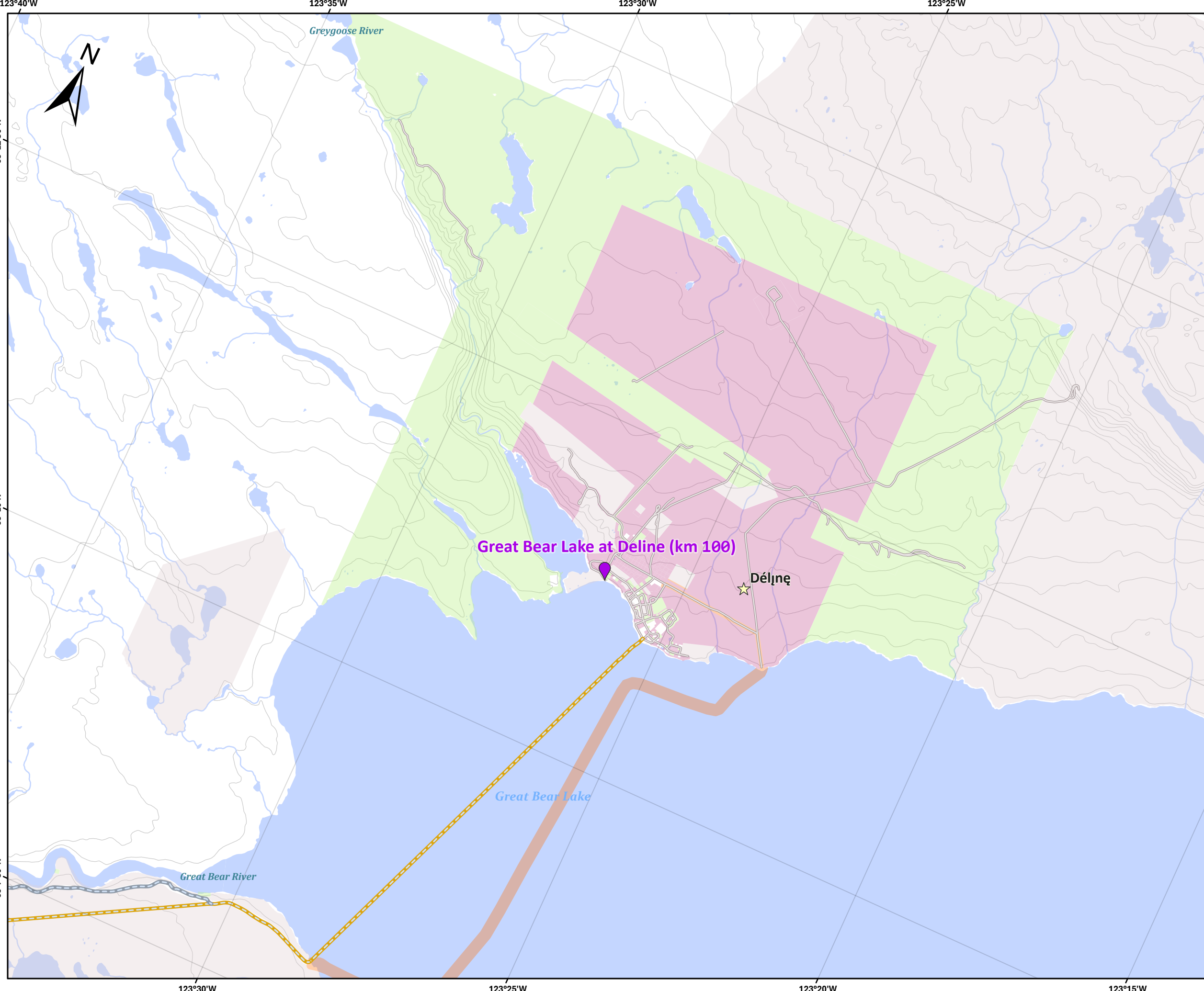
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123°55'W 123°50'W 123°45'W 123°40'W

65°0'N 64°57'30"N

123°50'W 123°45'W 123°40'W 123°35'W



Mackenzie Valley Winter Road

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Tulita to Délne

LEGEND

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123°40'W 123°35'W 123°30'W 123°25'W

65°12'30"N 65°10'N 65°7'30"N

123°30'W 123°25'W 123°20'W 123°15'W