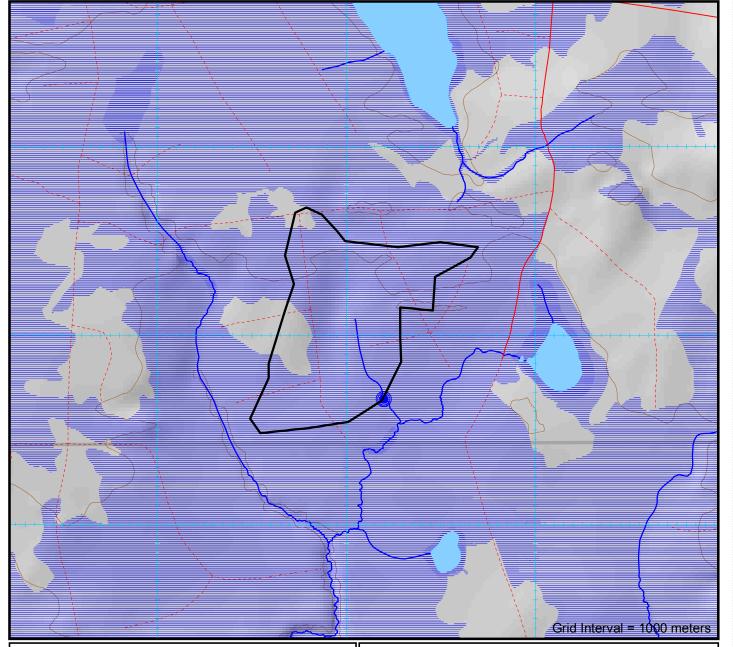
Abitibi River Forest Appendix 1: Form for Submission of Information on a Proposed Crossing



Watershed Characteristics

0.73 km² Watershed Area: 0.00 km² Lake Area: 0.00 km² Swamp Area: Retention Area: 0.00 km² Retention Factor 0.00 % Base Class: 0.00

Watercourse Type: Permanent

Crossing Location Characteristics

Evaluation ID No.: A3015

Geographic Township: Inglis UTM Coordinates (NAD83): 502199E, 5477664N

Road Type: Operational

Stream Gradient: 0% Slope > 30% (17°): **NO**

Installer Experience: As Per Approved Implementation Toolkit



Proposed Structures			
	Structure 1	Structure 2	Structure 3
Structure Type	Ice	Portable Bridge	Culvert
Design Flow	Q2	Q25	Q10
Fill Material	Snow and Ice	Pit Run Gravel	Pit Run Gravel
Dates for In Start Water Work		July 16	July 16
(if required) Finish		August 31	August 31
Removal Timeframe	By March 31st	<7 Years	<2 Years

Calculations performed by First Resource Management Group (FRMG). Neither Abitibi River Forest Management Inc., nor FRMG guaratee the accuracy of any information presented on this form. Coordinates and map are UTM projection, Zone 17 NAD83 datum

Shaded Area for ARFMI Road Previously Used Crossing Evaluation Office Use Only Network No. Crossing ID Reference Number

Publication Date: December 14, 2023

Fisheries Operational Management Zone (OMZ): Abitibi River Forest - S.F.L. # 551832

Standard for Self-assessed Water Crossing Construction, Removal and/or Proponent: Island Falls Forestry Decommissioning: Snow Fill and Ice Bridge Crossing c/o P.O. Box 867

New Liskeard, Ontario Previous Assessment Year (incl. SA): 2024 P0J 1P0 SAR species likely to be impacted: (705) 680-0033 NO Preconstruction photos available:

Plan Term: 2022-2032 NO Within 500m of Brook Trout stream: AWS Year: 2024-25

Culvert Design Options		Q ₂₅	Q ₁₀	$Q_{\scriptscriptstyle{5}}$	Q _{2.33}
	Design Flow	0.000 m ³ /sec	0.000 m ³ /sec	0.000 m ³ /sec	0.000 m ³ /sec
	1 Round	450mm	450mm	450mm	450mm
	2 Round	N/A	N/A	N/A	N/A
	3 Round	N/A	N/A	N/A	N/A
	1 Arch (BxD)	450x340mm	450x340mm	450x340mm	450x340mm
	2 Arch (BxD)	N/A	N/A	N/A	-
	3 Arch (BxD)	N/A	N/A	N/A	-
	• Required Oper	ning for bridges is calculate	ed as per the Crown Land	Bridge Management Guide	elines.

Conditions on Culvert Design Options

- Initial Fisheries Review based on one pipe. Two or more pipes requires a re-assessment.
- Round culvert calculations assume 10% fill. For 20% fill, increase diameter to next highest standard diameter.
- For 40% fill, use a round culvert diameter of the Base distance of the corresponding Arch style culvert.

General Standards

- No watercourse realignment, nor use of explosives is permitted.
 Minimize loss or disturbance to riparian vegetation. Restrict removal of riparian vegetation to the disturbance footprint required for construction, maintenance and decommissioning of the water crossing.
- Install erosion and sediment control measures prior to commencement of construction or decommended prevent release of sediment or other deleterious substances into watercourse.
- Fill material placed below the normal high water mark must be erosion-resistant and/or protected from erosion. • Direct storm water runoff from bridge decks, side slopes, road approaches and ditches away from the watercourse
- and into a retention pond or vegetated area.

 Ensure erosion and siltation in ditch lines adjacent to the watercourse crossing approaches are controlled using
- sediment traps such as rock/soil dams or log jams as site conditions warrant.

 Do not block or impede the free passage of water and fish at any time of year up and down stream,
- with the exception of potential and temporary blockage due to water crossing construction/decommissioning activities. Abide by fisheries in-water timing windows in the approved FMP and/or forest management guides.
- Where fishery communities are not well documented, the most restrictive in-water timing window must be used. · Complete all in-water construction and decommissioning activities in an uninterrupted fashion and in an appropriate timeframe to minimize potential for site disturbance.
- If installation requires inwater work, do not locate within 100m of spawning or sensitive fish habitat eg, rapids, riffles, known overwintering areas.
- Maintain machinery free of fluid and fuel leaks. Wash, refuel and service machinery at least 30m from watercourse. Store fuel and other materials for machinery a minimum of 30m from the watercourse.
- Operate machinery on land with tracks/wheels above the normal high water mark, or on ice in a manner that avoids disturbance to the banks of the watercourse and adjacent riparian vegetation areas.
- Remove all debris from construction and decommissioning work from the site following completion of the undertaking. • If machinery fording is required, limit to a one-time event (over and back) per piece of equipment essential to
- implementating the project, and only if using an existing crossing at another location is not available or practical.

 If minor rutting is likely, watercourse bank and bed protection methods (e.g., swamp mats, pads) are to be used provided they do not constrict flows or block fish passage;
- Grading of the watercourse banks for the approaches is not permitted;
- If the watercourse bed and banks are steep and highly erodible (e.g., dominated by organic materials and silts) and erosion or degradation is likely, use a temporary crossing structure or other practice to protect them;
- The one-time fording must adhere to the appropriate in-water timing windows; Fording must occur under low-flow conditions and not when flows are elevated due to local rain events or seasonal flooding

- All calculations are for projecting ends. Total pipe length normally not to exceed 20m.
- All calculations assume a Headwater Depth of 1.0.
- MP = Multi-Plate (i.e. SPCSP)

Standards for Snow Fill and Ice Bridge Crossings

- Do not dredge, place fill on, grade or excavate the bed or banks of the watercourse.
- Do not use earth fill or aggregate below the normal high water mark. Crossings must be constructed of clean water, ice and snow free of dirt and debris
- · Snow fills and ice crossings must not restrict water flow within the watercourse where it occurs naturally during winter conditions, or otherwise completely obstruct fish passage
- Do not locate within 100 metres of fisheries spawning or sensitive habitat.
- Appropriate seasonal conditions must be present (e.g., adequate depth of snow and ice, winter temperatures) to provide certainty that construction and removal standards can be satisfactorily implemented.
- No aggregate or loose woody material used to top the crossing.
- If logs or corduroy are used to stabilize the approaches:
- The logs must be clean:
- The logs may be bound together to facilitate removal and minimize site disturbance;
- No logs or woody debris are to be left within the watercourse;
- Corduroy (if used) adjacent to the watercourse banks must be removed and placed outside the floodplain to help prevent a damming effect on site. Corduroy that is frozen or embedded into the road approaches or watercourse banks must be left in place so as to not expose mineral soil adjacent to the watercourse. The remaining snow and ice can be left to melt in the spring. If required, remedial work will be carried out on the site after the crossing is removed to ensure that no logs or woody debris can wash back into the watercourse.
- Logs may be placed on road approaches to assist in diverting runoff away from the watercourse; however, they must be placed outside of the floodplain and in such a manner as to ensure that they do wash back into the watercourse.
- · Sanding of snow and ice crossings must be kept to a minimum and within the bounds of operational health and safety considerations.
- · Corduroy logs or brush mats must be installed on the approaches when conditions are soft in order to avoid disturbing the banks and crossing approaches.
- If water is being pumped from a watercourse to reinforce the crossing, the intakes must be sized and adequately screened to prevent debris blockage and fish entrainment.

Self-assessed. Follow conditions of appropriate standard(s).

MNRF Appendix 2: Biologist Risk Evaluation

Concerns and Conditions on Construction

Watershed Thermal Code: UF

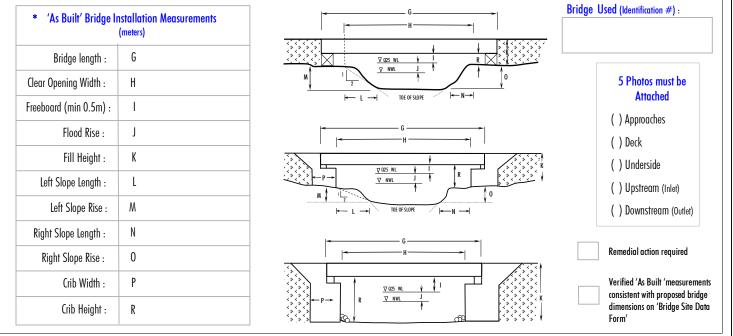


	Structure 1	Structure 2	Structure 3
Risk Evaluation:	LOW	LOW	LOW
Site Inspection Required:	NO	NO	NO

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Forest Management Inc

tion Keport (MI	st be completed for each crossing location)	Only Conne	a mapociora dio dilonodi lo condoc	. Toresi operani
	or so compressed for each or eaching recently		* 'As Built' Culvert In	n <mark>stallation M</mark> e (meters)
Block ID:			Installed Diameter :	
Poad Name:		H	Structure Length :	
			Road Width :	
		0	Depth of Cover:	
Date Measurements To	sken:		Water Depth in Pipe :	
			Number of Culverts :	
1	Foundation Soil Description :		Spacing Between Pipes :	
*				
A			* 'As Built' Bridge In	n <mark>stallation M</mark> e (meters)
B J	City			G
D(I) D(c) D(r)				Н
				 I
		農	, ,	J
	T VIII UIII		Fill Height :	K
	ARFMI Notification Provided: (ARFMI Advised-'(hange to Operation' made)	8	Left Slope Length :	L
	FRI Incorrect		Left Slope Rise :	M
	Unmapped		Right Slope Length :	N
			Right Slope Rise :	0
			Crib Width :	P
Date of installation:			Crib Height :	R
		Verific	ation :	
ar	Erosion Prevention and Control (X):		I have confirmed that the final cro	
			will not impede future transfer of	responsibility
Stable		Note	s:	
nent):				
Re-vegeto				
N	Divert drainage ditches to green belt			
f Fill:	Line drainage ditches with rock			
d Use ro	ck weirs in drainage ditches to impede water flow			
	Use filter cloth on upstream side of culverts			
e	No grubbing or stripping of ground vegetation			
	No grounding or simplify or ground vegetation			
	th (On top of ice if fill is used for Winter Crossings)	Note: All	of the above activities must be chec	cked. 🗸- Verii
	Block ID: Road Name: Date Measurements To Date of installation: Stable Re-vegeta N Fill: Use ro	Date Measurements Taken:	Block ID:	Block ID: Road Name: Structure Length: Installed Diameter: Structure Length: Read Width: Depth of Cover. Water Depth in Pipe: Reubble Depth of Cover. Depth of Cover. Water Depth in Pipe: Reubble Depth of Cover. Reubble Depth of Cover.

	ER CROSSING OPERATIONS CH	·	
	* 'As Built' Culvert Installation Measurements (meters)	Depth of Cover Covert Clearance (L.e. p. da or Uplican)	4 Photos must be Attached
₽	Installed Diameter :		() Approaches
CULVERT	Structure Length :	Describe Bacriff Waters1 Onginal Streambed	() Inlet
n.	Road Width :	72 Us Greenspacind Green Bedding (L. 3 Ximo Menuny)	() Outlet
0	Depth of Cover:	Laugh of Updram	() Inside Pipe
	Water Depth in Pipe :	Proteins Proteins 1 Cohert	
	Number of Culverts :	Flow Store 0 1%	
	Spacing Between Pipes :	Describe Existen Protection (a. Size Type)	Remedial action required
	* 'As Built' Bridge Installation Measurements (meters)	G H	Bridge Used (Identification #):



I have confirmed that the final crossing condition satisfies the mandatory water crossing standards and	Water crossing location same as AWS submission Installation of culvert and size same as described in AWS water shed calculations.
will not impede future transfer of responsibility	No sediments or woody debris left in water body or streams
	Construction materials removed from site
Notes:	Embankment sloped properly (e.g. 2:1) with no possibility of slumping
	Timing restriction met
	Culvert properly installed (i.e. refer to FMP Standards)
	Sediment Control Plan in AWS followed
	No Erosion or Sedimentation present (e.g. filter cloth used to prevent material from entering waterway)
	No signs of equipment or machinery in stream (i.e. culvert installed before equipment progresses past crossing)
	Coarse clean rock used on all culvert crossings
	Natural vegetation protected
	Additional measures used to prevent erosion (e.g. seed, filter cloth, rip rap etc.)
	Drainage ditches properly installed
	Crossing removed before March 31 unless left for silviculture activities
	Road right of way width through unallocated stands , no larger than FMP requirement
	Road right of way width through AOC's (reserves), no larger than FMP requirement
Note: All of the above activities must be checked.	ne within acceptable limits 🗶 - Outside of acceptable limits. Refer to comments for additional details N/A — Not applicable
11010. All of the above activities that be checked. Y - fertiled to be	Total despitable minis (Comments for additional additio