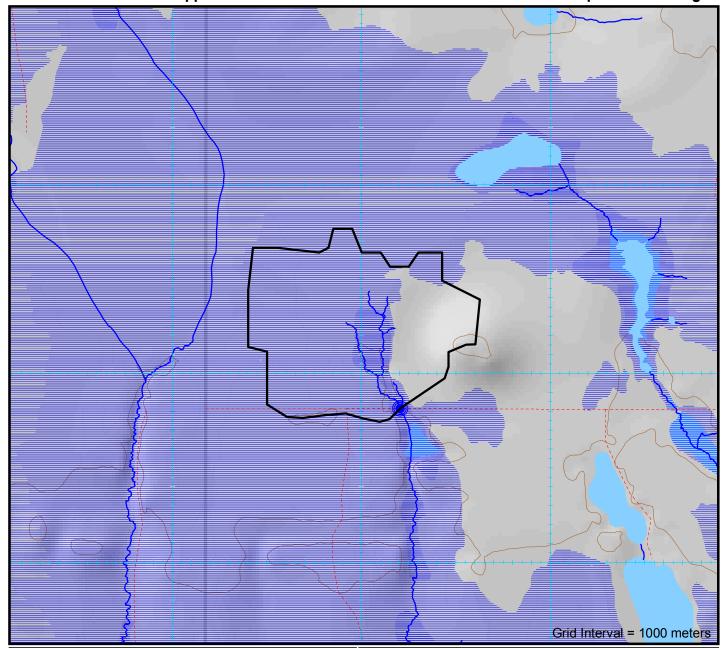
Abitibi River Forest Appendix 1: Form for Submission of Information on a Proposed Crossing



Watershed Characteristics

0.90 km² Watershed Area: 0.00 km² Lake Area: 0.07 km² Swamp Area: Retention Area: 0.07 km² Retention Factor: 8.34 % Base Class: 0.00

Watercourse Type: Permanent

Crossing Location Characteristics

Evaluation ID No.: A4463 Geographic Township: McCart

UTM Coordinates (NAD83): 505205E, 5401812N

Road Type: **Branch**

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

Installer Experience: As Per Approved Implementation Toolkit



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

Dropood Structures

Calculations performed by First Resource Management Group (FRMG). Neither Abitibi River Forest Managment 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 Office Use Only Network No.	Previously Used 4811 Crossing ID	Crossing Evaluation Reference Number
---	-------------------------------------	--------------------------------------

Publication Date: December 12, 2023

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

Standard for Self-assessed Water Crossing Construction, Removal and/or Proponent: Mike Montfort Decommissioning: Clearspan Bridge

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 I	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 Opening for bridges is calculated as per the Crown Land Bridge Management Guidelines.		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 Clearspan Bridges

- Do not locate on meander bends, braided watercourses, alluvial fans, or any other area that is inherently unstable and may result in the alteration of natural stream functions or erosion and scouring of the water crossing structure.
- Use appropriate site-specific mitigation measures to ensure construction, including bridge cribs, abutments, and associated fill slopes are not subjected to the impacts of long-term or ongoing erosion. At a minimum, measures must include:
- · Stabilize clearspan bridges, including bridge cribs and fill slopes, with appropriately sized non-erodible material (e.g., rocks, cobble sized stones).
- · Rock used for stabilization is to be clean, free of fine materials, and of sufficient size to resist displacement during peak flood events.
- Rock must be placed at the original watercourse bank grade to ensure that there is no infilling or narrowing of the watercourse
- Fill material placed below the normal high water mark must be erosion resistant
- and/or protected from erosion Do not locate within 100 metres of fisheries spawning or sensitive habitat if any in-wate
- work is a requirement of the project. • The bridge, including its abutments, must be placed entirely outside normal high water mark. The Forest Management Guide for Conserving Biodiversity at the Stand and Site Scales
- refers to the normal high-water mark as the edge of vegetation communities capable of providing an effective barrier to the movement of sediment.
- Do not alter the bed or banks of watercourse, or allow infilling or narrowing of the channel. Decommissioning will only occur if it is consistent with the approved road use management
- strategy of the FMP, and is scheduled in the AWS. Upon decommissioning, including the removal of bridge abutments, cribs, and/or sill logs,
- the site must be stabilized and protected against erosion. Bridge abutments and cribs may only be left in place if in good condition, stable for the long term, and are not affecting watercourse or fish community dynamics,
- and if permissible in the approved FMP or AWS. • When decommissioning, surface water runoff and road approaches and ditches must be directed away from the watercourse and into vegetated areas.
- Undertake any additional erosion mitigation practices required by the site conditions. Self-assessed. Follow conditions of appropriate standard(s).

MNRF Appendix 2: Biologist Risk Evaluation

Concerns and Conditions on Construction

Watershed Thermal Code: UF



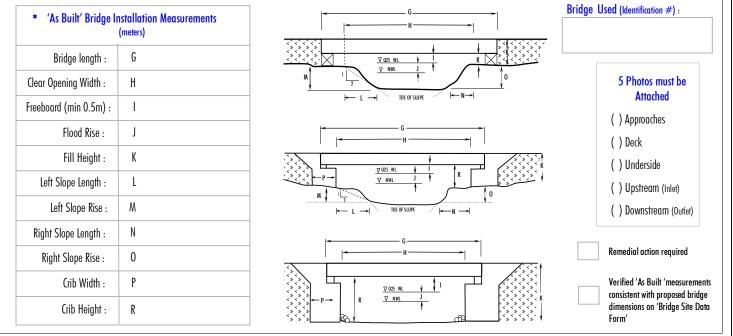
The crossing is a portable bridge spanning the high water mark and/or a winter crossing; no in-water work is proposed and is low risk following standards and guidelines. This ranking does not authorize any undertaking that results in serious harm to fish, but suggests a low risk of causing serious harm to fish in compliance with the Fisheries Act following best practices such as those described in the DFO measures to avoid causing harm to fish and fish habitat and the standard mitigation techniques outlined in the FMP.

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

ABITIBI RIVER Forest Management Inc
Forest Management Inc

AR-MIC	rossing Installation	Report (Must be comple	eted for each crossing location)	Unly certifie	ed inspectors are allowed to conduct	Forest Operation
STIBI RIVER st Management Inc		(Mass se semp	orea for each or eaching receivery		* 'As Built' Culvert In	stallation Me meters)
Shareholder:		Block ID:			Installed Diameter :	
Contractor:		Poad Name:		CULVERT	Structure Length :	
Contractor.		Noau Name.			Road Width :	
SITE CONDITIONS ENCO	OUNTERED			0	Depth of Cover:	
Crossing Located By:		Date Measurements Taken:			Water Depth in Pipe :	
					Number of Culverts :	
Stream Measurements (meters)	٥.	1.0	Foundation Soil Description :		Spacing Between Pipes :	
Flood Plain Width : A		桑桑	Sand Muck			
Bankful Width : B		A	Silt Rubble Gravel		* 'As Built' Bridge In	stallation Me (meters)
Channel width : C	∫ _F ↑ _E	- B → V	City		Bridge length :	G
Depth - 25% of Channel : D (I)	D (!)) D(c) D(r)	Channel Type:		Clear Opening Width :	 H
Depth - 50% of Channel : D (c)			EphemeralIntermittent		Freeboard (min 0.5m) :	
Depth - 75% of Channel : D (r)	Notes:		Permanent	Ж	Flood Rise :	J
Depth - Bankful Flow : E			·····	BRIDGE	Fill Height :	K
Depth — Floodplain : F			ARFMI Notification Provided : (ARFMI Advised- 'Change to Operation' made)	8	Left Slope Length :	L
Stream Velocity:	m /sec		FRI Incorrect		Left Slope Rise :	M
1	1117,500		Unmapped		Right Slope Length :	N
					Right Slope Rise :	0
NSTALLATION CONDITI	ONS				Crib Width :	P
nstallation Supervised By:		Date of installation:			Crib Height :	R
				Verific	ation :	
Crossing Permanency : Refer to Structure Removal	Timeframe specified in AWS 4 and 5 Month/Year	E	rosion Prevention and Control (X):		I have confirmed that the final crossatisfies the mandatory water cross	
Permanent Temporary	Decommissioned Date:		(Indicate applicable measures taken)		will not impede future transfer of a	esponsibility
Note: Measurements (\star) must be included for all structures which remain in place beyond date of inspection	Scheduled Removal Date:		eam banks and drainage ditch banks	Notes	s:	
Crown Land Bridge NAD	83 (Record Actual Crossing Location on Stream Segment):		ourse, clean rock to high water mark			
Bridge Record Form submitted	E	Re-vegetate or seed slo	opes (stream banks and ditch banks)			
(i.e. MNR /ARFMI)	N		Divert drainage ditches to green belt			
New Crossing Type: Structure	e Description: Type of Fill:		Line drainage ditches with rock			
Box Culvert	Steel Sand	Use rock weirs in dr	rainage ditches to impede water flow			
Arch Culvert P	lastic Gravel	Use filt	ter cloth on upstream side of culverts			
	Vood Rock Rubble	No grubbi	ing or stripping of ground vegetation			
	ocrete Other	Use filter cloth (On top of i	ice if fill is used for Winter Crossings)	Note: All	of the above activities must be checl	ked. 🗸- Verii
Steel Stringer Bridge Ford (Engine Winter Snow Pack	erea) [Other:		activities inspected are fully compliant	
willer 200M LOCK					person are ronly compliant	u on ull

	ER CROSSING OPERATIONS CH and inspectors are allowed to conduct Forest Operations Inspections for subm	•	
	* 'As Built' Culvert Installation Measurements (meters)	Depth of Cover Culvert Clearance (1.e. p due or 1000mm)	4 Photos must be Attached
₽	Installed Diameter :	(00)	() Approaches
CULVERT	Structure Length :	Describe Backfil Waterul Water	() Inlet
n.	Road Width :	Un-compacted Givest feeding (L. a. 200m Manum)	() Outlet
0	Depth of Cover:	Length of Q Length	() Inside Pipe
	Water Depth in Pipe :	Trainin Protection 1 Column Grain Restart Column Column Grain Restart Column Co	
	Number of Culverts :	Flow Supple 9 1%	
	Spacing Between Pipes :	Desorbe Enrole Protection p.a. Son 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	Obside of decipionic minis. Role to comments to dudinolid doubles IVA — not applicable