Bridge Culvert Inspection														
Bridge File Numb							Form Type			CUL1				
Year Built		1980						Lot No.		4				
Bridge or Town N	Name	SWAN H	IILLS						Russel Vanderschaaf					
Located Over		MORSE	RIVER, 8.11.9	5.2, WAT	FERCF	RS-ST	· ·	or Class		BR CLS B				
Located On		32:12 C1						nt Name						
Water Body CI./Y	⁄ear							Assistant Class						
Navigabil. Cl./Ye								ion Date		11-Feb-2013				
Legal Land Loca		NW SEC	2 TWP 66 RC	GE 10 W5	М		Data Entry By		Theresa Lacusta					
Longitude, Latitu			22, 54:41:17				Data Entry Date		13-Apr-2013					
Road Authority			ransportation (AIT)				Reviewer Name		Eric Carcoux					
Contract Main. A	rea	CMA06					Review Date		07-Apr-2013					
Clear Roadway/S	Clear Roadway/Skew 9.7 / 0 deg.						Dept. Reviewer Name							
AADT/Year 2,160 / 2012 (A)					Dept. Review Date									
Road Classificati	Road Classification RAU-210-							Follow-Up By						
Detour Length (k		139						. ,						
Bridge Culvert I														
Number of Culve		1												
	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	ЛАIN	-		3360		SP		40.2		152X51	2.8	ROUND		
Special Features	6													
Special Features	S Comr	nent												
					Uti	ilities (L	ocated	at)						
Utility Attachmen	nts								1					
Telephone								Gas 100m South crossing road.						
	6 wire	es 60m South of culvert.						Municipal						
Others							Problem (Y/N) No							
Remarks														
				Ар				ankment		lan				
Horizoptol Align	nont				Last 7	Now	Explanation of Condition Road access 50m South.							
Horizontal Alignment Vertical Alignment				6 6			Crest curve to the south limiting sight distance. No passing SB.							
Roadway Width (m)		9.700			0									
Embankment	mbankment			7		7								
Sideslope (:			3.0											
(Height of Cove	· ·	2.5)	0.0											
Guardrail (Y/N)	<u>or(iii)</u> .	)	Yes											
Approach Road	l / Emb	bankmen	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compor	nent				Last	Now		ation of	Condi	tion				
Direction				W										
End Treatment ( Others, None)	Concre	ete, Steel,	CONCRETE											
Headwall					Х	X								
Collar					N	N	Shoulder slab beside collar settled 300mm.24-Jul-2009 Under snow							
Wingwalls					Х	X								
(Shape : )							1							
Cutoff Wall				N	N									
				-										

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			Ilnetro	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6	Rate based on 50% visibility.					
Heaving (mm)	100			Minor bend at 10 o'clock.					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	400								
Scour Protection		5	N	Snow covered					
(Type : <b>RIP RAP</b> )		0							
(Avg. Rock Size(mm) : <b>400</b> )				-					
Scour/Erosion		5	N						
Beavers (Y/N)	No								
Upstream End General Rating		4	4	GR carried fwd.					
Culvert Component		Last	dge Cu Now	Ivert Barrel Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa		-	, Rise (mm): 3360, Type: SP)					
Barrel Last Accessible Date	11-Feb-2013			Ice 2.3m from crown					
	111052010								
Special Features									
Special Feature				-					
(Type : )				-					
Special Feature				-					
(Type : )		1							
Roof		5	3	Crack in crown of ring 10 (at d/s end of pipe) with 90mm steel					
Measured Rise (mm)	Measured Rise (mm)			remainingphoto Measurements not taken due to ice on floor, shape looks adequate.					
Measured At Ring No.									
Sag (mm) 75				estimated					
Percent Sag	5								
Sidewall		6	6	50mm tear in sidewall North.					
Measured Span (mm)	3412			SIde d/s end ring 10 - probably from construction.					
Measured At Ring No.	4								
Deflection (mm)	52			-					
Percent Deflection	2								
Floor		N	N	Under ice					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		6	6						
Separation (mm)	0								
Longitudinal Seams		5	3						
Total No. of Cracked Rings				Missing 3 holts throughout pipe					
Total No. of Rings with Two Cracked Seams	0			Missing 3 bolts throughout pipe. Crack in crown of ring 10 (at d/s end of pipe) with 90mm remaining steelphoto					
Min. Remaining Steel Between Cracks (mm)				1N stagger.					
Proper Lap (Y/N)	No			-					
Longitudinal Stagger (Y/N)	Yes		_						
Coating		5	4	Superficial rust above ice.					
Corrosion By Soil (Y/N)	Yes			Alkaline deposits through bolts.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm	):	, Rise (mm): 3360, Type: SP)					
Fish Passage Adequacy			7						
Baffle		X	X						
(Type : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No		_						
Silting (Y/N)	No								
Drift (Y/N)				-					
Barrel General Rating		5	3						
Downstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction									
End Treatment (Concrete, Steel, Others, None)	nd Treatment (Concrete, Steel, STEEL								
Headwall		Х	X						
Collar	Collar								
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall			X						
Bevel End			N	Under snow-only 30% visible					
Heaving (mm)	Heaving (mm) 100								
Invert Above/Below Stream Bed	nvert Above/Below Stream Bed BELOW			Couldn't tell due to snow cover.					
Above/Below (mm)	Above/Below (mm) 400								
Scour Protection		7	7	-					
(Type : <b>RIP RAP</b> )				-					
(Avg. Rock Size(mm) : <b>400</b> )			1						
Scour/Erosion	Scour/Erosion								
Beavers (Y/N)	No								
Downstream End General Ratir	ng	5	5	GR carried fwd.					
		S	structu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			7						
Bank Stability			5						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 : NONE)									
Channel General Rating			7						

Maintenance Recommendations												
Inspector Recommendations		⁄ear	Inspector Comments		Department Comm	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION										_		
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow) 5	5.6/33.3	3 Sufficiency Rating (Last/No (%)	ow) 5	58.0/46.8 Est. Repl. Y		2030 Maint. Re		qd. (Y/N)	No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy					· · · · ·							
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Brian Pie	entsch	P	Previous A	Assistant's Name	Lisbeth Medin	Lisbeth Medina					
		2014	P	Previous Inspection Date 06-Apr-2011								
Inspection Cycle (Default) (months) 21						•						
Comment												