					Brida	e Culve	rt Insne	ection					
Bridge File Num	her	78893 -1 Bridge Culvert			Бпад	C Guive			CUL1				
Year Built 1978					Lot No.			4					
Bridge or Town Name BIRCH CK						Inspector Name			Wade Nanninga				
Located Over TRIBUTAR								BR CLS A					
2000100 0 701		6.132.2.	2.7, WATERCRS-ST			Assistant Name		BR CLS A					
Located On 22:28 C1 16.190						Assistant Class							
Water Body Cl./Year								ion Date		27-Sep-2011			
Navigabil. Cl./Year					Data Entry By		Theresa Lacus	sta					
Legal Land Location NW SEC 20 TWP 47 RGE			GE 6 W5	6 \N/5M					26-Oct-2011				
Longitude, Latitude -114:51:1			18 53:04:20				·		Eric Carcoux				
		Transportation (AIT)				Review Date		13-Oct-2011					
Contract Main. Area CMA11			-				Dept. Reviewer Name						
Clear Roadway/	Skew	10 / 0 de	20				Dept. Review Date		14-Nov-2011				
AADT/Year		2,100 / 2	2010 (A)							14-1100-2011			
Road Classificat	tion	RAU-21					Follow-Up By						
Detour Length (I	km)	3											
Bridge Culvert	Inform	nation											
Number of Culve	erts		1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-	-	1524		MP		48.8		68X13	2.8	ROUND	
Special Feature	 S												
Special Feature		ment											
·													
					Uti	ilities (L	ocated.	at)					
Utility Attachmen	nts						l		I				
Telephone					Gas								
Power 7 wires 20m East of c/l & 3 wires OH cr North.				rossing	g 200m	Municip							
Others Tag at West end.						Probler	m (Y/N)	No					
Remarks	10.9												
				Aı	pproac	ch Road	l / Emba	ankment					
					Last	Now	Explanation of Condition						
Horizontal Alignment			8	8	Twp Rd 474 is 200m North of pipe.								
Vertical Alignme	Vertical Alignment			8	8								
Roadway Width (m)		10.000											
Embankment				8	8								
Sideslope (:1)		4.0											
(Height of Cov		3.8)											
Guardrail (Y/N) No													
Approach Road	d / Eml	bankmen	nt General Rat	ina	8	8							
Culvert Camera	nor ¹					Upstre		otion of	Condi	llon			
Culvert Compo	nent				Last	Now	⊏xpian	ation of	Condi	uon			
Direction End Treatment (Coper	ata Stacl	STEEL		W								
Others, None)	COLICIO	ete, Steel	, SIEEL										
Headwall		Х	X										
Collar			Х	X									
Wingwalls			Х	Х									
(Shape:)													
Cutoff Wall				Х	Х								

			Unstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		5	Now 5	Bevel hanging.				
	200	3	J 3	Bever nanging.				
Heaving (mm) Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	100							
Scour Protection		4	4					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 200)			Ι.					
Scour/Erosion		4	4	250mm loss of fill under bevel.				
Beavers (Y/N)	No							
Upstream End General Rating		4	4					
		Bri	dae Cu	lvert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN Sr			, Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date		Jan (mm	. <u>/·</u>	, ruse (min). 1024, Type: mi)				
Darrer Last Accessible Date	27-Sep-2011							
Special Features								
Special Feature								
(Type:)				1				
Special Feature								
(Type:)								
Roof		5	6					
Measured Rise (mm)	1590	J J	0	5m from upstream end.				
· ,	1390			-				
Measured At Ring No.	66			-				
Sag (mm)								
Percent Sag	4	_						
Sidewall		5	5	5m from downstream end.				
Measured Span (mm)	1440			-				
Measured At Ring No.								
Deflection (mm)	84							
Percent Deflection	6		_					
Floor		4	4	Extensive corrosion and pitting rust.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		5	5					
Separation (mm)	160							
Longitudinal Seams		Х	X					
Total No. of Cracked Rings								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)								
Longitudinal Stagger (Y/N)								
Coating		4	4	Pitting rust on floor and sidewalls.				
Corrosion By Soil (Y/N)	No			1				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							

		Brid	Ivert Barrel	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1524, Type: MP)
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	T	E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		Х	X	
Wingwalls			Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		4	4	Scour D/S approx 0.5m x 5.0m x 10m long.
Beavers (Y/N)	No			
Downstream End General Ratin	ng	4	4	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.1			Grass on fence at crown at upstream bevel.
Drift (Y/N) Yes				
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

		Maint	enance Recommen	dations					
Inspector Recommendations	Year	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	55.6/55.6 Sufficiency Rating (%)		59.4/59.5	Est. Repl. Yr	2021 Maint. Re		qd. (Y/N)	No
Special Monitor upstream a Comments for Next Inspection	nd downstream	scour.		Department Comments					
Maintenance Reviewed By				Date		E	stimated Total	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Kris Bosters	Kris Bosters Previ			Sara Wadlow				
Next Inspection Date	27-Jun-2013 Previ			us Inspection Date 05-Nov-2009					
Inspection Cycle (Default) (months)	21		,	,	,				
Comment									