					Bridg	e Culve	rt Insp	ection						
		-1 Bridge Culvert				Form Type		CUL1						
Year Built		1975					Lot No.			1				
Bridge or Town	Name	ANDRE	ΞW	N			Inspec	tor Name		Jason Saly				
Located Over			RDER TRIBUTARY TO VERMILION 6.5.32.1, WATERCRS-ST			· ·	tor Class		BR CLS A					
Located On				C1 18.920				ant Name						
Water Body Cl./		000.10	01 10.020			stant Class								
Navigabil. Cl./Ye								tion Date		02-Jun-2010				
Legal Land Loca		SW SF	C 21 TWP 55 R		ntry By		Jill Potts							
Longitude, Latitu			9:55, 53:45:33				Data Entry Date 02-Jul-2010							
Road Authority			Transportation	(AIT)			Reviewer Name John O'Brien							
Contract Main. A	Area	CMA14					Review Date 24-Jun-2010							
Clear Roadway/		8.5 / 10	deg. (RHF)				r Name Chris Black							
		2009 (A)				Dept. Review Date		13-Jul-2010						
Road Classification RCU-2						Follow-Up By								
Detour Length (I	km)	3												
<b>Bridge Culvert</b>	Inform	ation												
Number of Culve	erts		1											
Pipe #	pe# Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 1	MAIN		-	1524		MP	MP			68X13	3.5	ROUND		
Special Features	s						34.1 6					·		
Special Features	s Comr	nent												
					Uti	ilities (L	ocated	at)						
Utility Attachme	nts				<u> </u>		oounou	ut/						
Telephone	East d	litch.					Gas							
Power								Municipal						
Others								m (Y/N)	No					
Remarks														
				A	pproac	ch Road	l / Emb	ankment						
						Now	_	ation of						
Horizontal Alignment			7		7	Approach at SE & SW. Long gradual crest curve to South, limited sight distance.								
Vertical Alignme					5	5	Signi u	istarice.						
Roadway Width	(m)		8.500											
Embankment					6	East e	East embankment measure		asured.					
Sideslope (:1)		4.0												
(Height of Cov	er(m):	)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	ankme	nt General Rating		5	5								
						Upstre	am End							
<b>Culvert Compo</b>	nent				Last	Now		nation of	Condi	tion				
Direction					W	-	•							
End Treatment ( Others, None)	(Concre	ete, Stee	el, STEEL											
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					Х	Х								
(Shape: )														
Cutoff Wall					X	X								

78094 -1 Bridge Culvert

			Haratas	Ford
Culvert Component		Last	Now	am End Explanation of Condition
Bevel End		Last	NOW 4	Heavy corrosion & loss of section, typical throughout bottom 1/2 of
Heaving (mm)	180	IN	1 4	barrel.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection	130	N	3	Insufficient.
		IN	3	insumcient.
(Type:) (Avg. Rock Size(mm):)				
Scour/Erosion		N	3	Scour beside bevel.
Scoul/E10slott		in in	3	Scoul beside bevei.
Beavers (Y/N)	Yes			
Upstream End General Rating		3	3	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 1524, Type: MP)
Barrel Last Accessible Date	07-Nov-2003	(	·/·	Water 0.9m deep in pipe, viewed from ends.
Barror Edot / toocoolbio Bato	07 1107 2000			Water of our doop in pipe, viewed from onde.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(Slight flattening of roof at D/S end. Est 8.5% sag. 07/11/2003)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	130			
Percent Sag				
Sidewall		N	N	(1570 at c/l. 07/11/2003)
Measured Span (mm)				3% deflection, heavy corrosion & loss of section lower 1/2 of pipe - photo. 07/11/2003)
Measured At Ring No.				prioto. 07717/2000)
Deflection (mm)	46			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	(Rated what was visible above ice. 07/11/2003)
Separation (mm)	70			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(Heavy corrosion with loss of section, perforations soon to follow.
Coarrosion By Soil (Y/N)		IN	IN	07/11/03)
Corrosion By Water (Y/N)	Yes			-
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			

		Bric	lge Cu	lvert Barrel				
Culvert Component	Culvert Component		Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1524, Type: MP)				
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		N	6	(Small scour hole @ East end. 07/11/2003)				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N) No								
Barrel General Rating			3	G.R. carried forward since 07/Nov/2003.				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	Direction							
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	X					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		X	Х					
Bevel End		N	4	Some corrosion.				
Heaving (mm)	180							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	150							
Scour Protection		N	3	(Insufficient. Scour beside bevel but vegetated. 07/11/2003)				
(Type:)								
(Avg. Rock Size(mm):)								
Scour/Erosion		N	3	(5.0 x 7.0 scour hole - photo. 07/11/2003)				
Beavers (Y/N)	Yes							
Downstream End General Ratin	ng	3	3					
		s	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			7					
Bank Stability		N	7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes			West of pipe.				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N) Yes								
(Fish Compensation Measure 1 : NONE)								
(Fish Compensation Measure 2 : NONE)								
Channel General Rating			7					

Inspector Pagammandations		Maintenance	Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Comm	nents	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	à						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION	2010	Dewater and inspect. Determine n effective manner of managing pipe replacement.)	nost cost e (Repairs,				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	ow) 33.3/33	Sufficiency Rating (Las	st/Now) 54.2/44.8	Est. Repl. Yr 2012	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection (Heavy corrosion a Steel losing strengt	nd loss of sectio h. 07/11/2003) F	n, only a matter of time for perforation Pipe has not been fully inspected in T	ons to follow. 7 years.  Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	1 0	
Maintenance Reviewed By Proposed Long-Term Strategy	With Floor, Cu	vert should be adequate until 2025.			Estimated Tota	1 0	
	With Floor, Cul	vert should be adequate until 2025.			Estimated Tota	0	
Proposed Long-Term Strategy	Υ	oncrete with wire mesh across botto	СВ	·.	Estimated Tota	1 0	
Proposed Long-Term Strategy On 3-Year Program (Y/N)	Υ	·	СВ		Estimated Tota	1 0	
Proposed Long-Term Strategy  On 3-Year Program (Y/N)  Proposed Action  Previous Inspector's Name	Y Isntall 50mm o	·	om half of culvert within two years  Previous Assistant's Name	22-Mar-2007	Estimated Tota	1 0	
Proposed Long-Term Strategy  On 3-Year Program (Y/N)  Proposed Action	Y Isntall 50mm c	·	om half of culvert within two years		Estimated Tota	0	