					Brida	e Culve	ert Inspe	ection					
Bridge File Num	nber	74483 -1	~~~				CUL1						
Year Built 1955							Lot No.			4			
Bridge or Town	Name	NANTON	ON				Inspector Name		Garry Roberts				
Located Over			N CREEK, 2.1	2.25.19,	WATE	RCRS-	Inspect	or Class		BR CLS A			
		ST	<u></u>					nt Name					
Located On		533:02 C	C1 8.287				Assistant Class						
Water Body Cl./	Year						Inspection Date		16-May-2010				
Navigabil. Cl./Year							Data Entry By		Erin Roberts				
		` / TWD 15 PCE 1 W/5M					Data Entry Date		15-Jul-2010				
Longitude, Latitude -114:04:44		44 E0·12·20				Reviewer Name		Tom Carey					
Road Authority Alberta Tr		ransportation		Review Date		02-Jun-2010							
Contract Main. Area CMA27		,					Dept. Reviewer Name						
		deg. (LHF)					Dept. Review Date		23-Jul-2010				
AADT/Year		1,040 / 2	009 (A)				Follow-Up By						
Road Classifica	tion	RCU-209	9-110				I Ollow-Op By						
Detour Length (km)	50											
Bridge Culvert	Inform	nation											
Number of Culv	erts	1								I	1		
Pipe #	Barrel	8	Span	Rise (or Dia		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	1	1735 1920			SPE		55.5		152X51	2.8,2.8,2.8	ELLIPSE	
Special Feature									1				
Special Feature		ment											
·													
	Ì				Ut	ilities (L	ocated	at)					
Utility Attachme	T						1						
Telephone north ditch						Gas							
Power						Municip							
Others Fibre optic-south ditch						Probler	n (Y/N)	No					
Remarks				Δ.		sh Dage	l / Emb	nkment					
				A		Now		ation of	Condi	tion			
Horizontal Align	ment				8	7	LAPIAII	ation or v	Sorial	LIOII			
Vertical Alignme	Horizontal Alignment				7	7	-						
		9.000											
Roadway Widiii (iii)		0.000											
Embankment					8 7								
Sideslope (Sideslope (:1)		3.0										
(Height of Cov	ver(m) :	: 7.4)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Eml	bankmen	⊥ t General Rat	ing	7	7							
Culvert C	man'				Lest		am End		Co!'	tion			
Culvert Component		Last Now		Explanation of Condition North invert									
End Treatment (Concrete, Steel,				IV		Bevel installed with a steep slope							
Others, None) Headwall					X	Х							
Collar			Х	X									
Wingwalls			X	X									
(Shape :)													
Cutoff Wall					X	X							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	·	5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	400			-
Scour Protection	1400	6	6	Grassed In
(Type : RIP RAP)			0	(piping along first 3 rings & leaking
				through bolt holes)
(Avg. Rock Size(mm) : 250) Scour/Erosion			6	
Scourerosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dgo Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			· -
Barrel Last Accessible Date	16-May-2010	Spair (iiiii	17. 1700	, 1100 (11111): 1020, 1780: 01 2)
Special Features				
Special Feature				
(Type :)				
Special Feature				
·				
(Type:)			Τ_	
Roof		7	7	Rings are numbered incorrectly.
Measured Rise (mm)	1935			
Measured At Ring No.	9			Upward
Sag (mm)	15			
Percent Sag	1			
Sidewall	1	7	7	
Measured Span (mm)	1770			
Measured At Ring No.	9			
Deflection (mm)	35			
Percent Deflection	2			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0	,	'	
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			OOME OURERFIONAL RUST
Coating	1	5	5	SOME SUPERFICIAL RUST
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

		Brid		vert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 173 <u>5</u>	, Rise (mm): 1920, Type: SPE)
Fish Passage Adequacy		6	6	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		south
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed ABOVE				
Above/Below (mm) 300				
Scour Protection			5	Scour hole is armoured
(Type : RIP RAP)				Grassed in
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	5	
		s	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	7	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	AGGRADING			In D/S channel
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)		1	
Channel General Rating		7	7	

			Mainten	ance Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 77.8/7	7.8	Sufficiency Ratin	g (Last/Now)	72.9/70.5	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tim Davies			Previous	vious Assistant's Name					
Next Inspection Date	16-Aug-2013			Previous	Inspection Date	16-Jan-2007				
Inspection Cycle (Default) (months)	39									
Comment										