					Brida	e Culve	ert Insp	ection						
Bridge File Number 08672 -1 Bridge Culvert						Form Type			CUL1					
Year Built 1983							Lot No.			3				
Bridge or Town Name HAY		HAY LA	HAY LAKES				Inspector Name			Dave Lam				
Located Over CAI		CAMRO					Inspector Class			BR CLS A				
		617:02 C					Assistant Name							
Water Body Cl./Year							Assistant Class							
Navigabil. Cl./Year							Inspec	tion Date		11-Jul-2011				
		SE SEC	3 TWP 49 RG	E 21 W4I	М		Data Entry By			Marcia Chavez				
		-112:59:						ntry Date	:	16-Aug-2011				
Road Authority Albe		Alberta T	·					ver Name	:	John O'Brien				
Contract Main. Area CMA		CMA16						v Date		27-Jul-2011				
Clear Roadway/Skew 9.8 / 0		9.8 / 0 de	0 deg.					Reviewer	Name	Andrew Smikles				
AADT/Year		760 / 20	0 / 2010 (A)					Review Da	ate	29-Aug-2011				
Road Classificat	tion	RCU-210	RCU-210-110					-Up By						
Detour Length (6												
Bridge Culvert		ation												
Number of Culve		1	<u>'</u>					I		I	1			
·	Barrel		Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	-		3050		SP		36		152X51	3.0	ROUND		
Special Feature	S													
Special Feature	s Comn	nent												
					Liti	ilities (l	ocated	at)						
Utility Attachme	nts				<u> </u>	J colum	-ooutou	ui)						
Telephone	South	r/w					Gas Appro			x. 50m W.				
Power		im N r/w	off c.l.				Municipal							
Others					Problem (Y/N) No									
Remarks								,						
				A	pproac	ch Road	d / Emb	ankment						
					Last	Now	Explanation of Condition							
Horizontal Align	ment				8	8	Access road to E & W. Crest curve to E.							
Vertical Alignme	ent				7	7	Crest	curve to E						
Roadway Width (m)			9.800											
Embankment					7	7								
Sideslope (:	:1)		3.0											
(Height of Cov	/er(m):	5.2)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	ankmen	t General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explar	nation of	Condi	tion				
Direction					N		-							
End Treatment (Others, None)	(Concre	ete, Steel	STEEL			_								
Headwall		Х	X											
Collar			Х	Х										
Wingwalls			Х	Х										
(Shape:)					<u></u>									
Cutoff Wall			Х	Х										

08672 -1 Bridge Culvert

			Upstre	eam End			
Culvert Component		Last	Now	Explanation of Condition			
Bevel End		6	6	Small tear in side of bevel-photo.			
Heaving (mm)	70			Estimated.			
Invert Above/Below Stream Bed BELOW				Can't verify due to water.			
Above/Below (mm)	750						
Scour Protection		8	5	Bevel projecting 1.0m from fill (photo).			
(Type: RIP RAP)							
(Avg. Rock Size(mm) : 400)							
Scour/Erosion		8	5				
Beavers (Y/N)	No						
Upstream End General Rating		6	5				
		Brio	dge Cu	Ilvert Barrel			
Culvert Component			Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı):	, Rise (mm): 3050, Type: SP)			
Barrel Last Accessible Date	16-Mar-2004			Viewed from both ends, shape looks OK.			
Special Features							
Special Feature							
(Type:)							
Special Feature							
(Type:)							
Roof		N	N	(1.5m of water. 05Sep2010).			
Measured Rise (mm)							
Measured At Ring No.							
Sag (mm) 100							
Percent Sag							
Sidewall		N	N	1.5m of water in pipe.			
Measured Span (mm)							
Measured At Ring No.							
Deflection (mm)	87						
Percent Deflection							
Floor		N	N				
Bulge (mm)							
Measured At Ring No.							
Abrasion (Y/N)							
Circumferential Seams		N	N				
Separation (mm)	0						
Longitudinal Seams		N	N				
Total No. of Cracked Rings	0						
Total No. of Rings with Two Cracked Seams							
Min. Remaining Steel Between Cracks (mm)				IN			
Proper Lap (Y/N) Yes							
Longitudinal Stagger (Y/N)	Yes						
Coating		7	7				
Corrosion By Soil (Y/N)	Yes						
Corrosion By Water (Y/N)	Yes						
Camber POS/ZERO/NEG	NEG						
Ponding (Y/N)	No						

08672 -1 Bridge Culvert

		Bric	lge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 3050, Type: SP)				
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No			(Under water. 05Sep2010).				
Silting (Y/N)	No			(Chash materi eccepterio).				
Drift (Y/N)	No							
Barrel General Rating		N	N	GR was N from 05Sep2010.				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		8	8					
Heaving (mm)	120			Estimated.				
Invert Above/Below Stream Bed	BELOW			Under water.				
Above/Below (mm)	750							
Scour Protection		8	5					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		7	5					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	5					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		6	6	Bends U/S of pip.				
Bank Stability		7	7					
HWM (m below Top of Culvert)	1.4			(05Sep2010).				
Drift (Y/N)	Yes			Drift caught on fenceline at S channel (photo).				
Channel Bottom Degrading/Aggrading				Not visible.				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		6	6					

		Maintenance R	ecommendations						
Inspector Recommendations	Year	Inspector Comments		ent Comments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2011	At u/s bevel end.							
REMOVE DRIFT ACCUMULATION	2011	At S fenceline.							
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2011	Reshape clay seal along u/s bevel & rock.	& relocate						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/5	Sufficiency Rating (Last/	(Now) 64.8/61.8	Est. Re	pl. Yr 2049	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection			Departm Comme	ent hts					
Maintenance Reviewed By			Date			Estimated Tota	1 0		
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Glen Smith		Previous Assistant's	us Assistant's Name					
Next Inspection Date	11-Oct-2014		Previous Inspection	s Inspection Date 05-Jun-2007					
Inspection Cycle (Default) (months)	39								
Comment									