86151 -2 Bridge Culvert

Bridge Culvert Inspection															
Bridge File Nur	nber	86151 -	2 Bridge Culve	rt			Form T	уре		CUL1					
Year Built		2008					Lot No.			4					
Bridge or Town	Name	MANNI	NG				Inspec	tor Name		Brian Pientsch					
Located Over		WATER	RCOURSE, WA	TERCRS-	-NI		Inspector Class		BR CLS A						
Located On		691:02	C1 6.258				Assistant Name		Brian Cote						
Water Body Cl.	./Year						Assista	int Class		BR CLS B					
Navigabil. Cl./Y	'ear						Inspec	tion Date		19-Mar-2013					
Legal Land Loc	cation	SE SEC	C 30 TWP 91 R	GE 22 W5	5M		Data E	ntry By		Lisa Fairhurst					
Longitude, Latitude -117:31:35, 56:54:55 Road Authority Alberta Transportation (AIT)							Data E	Data Entry Date 08-Apr-2013							
Road Authority		Alberta	Transportation	(AIT)			Review	er Name		Eric Carcoux					
Contract Main.	Area	CMA04					Review	/ Date		08-Apr-2013					
Clear Roadway	//Skew	9.5 / 10	deg. (RHF)				Dept. F	Reviewer	Name						
AADT/Year		470 / 20	012 (A)				Dept. F	Review Da	ate						
Road Classifica	ation	RCU-20	08-110				Follow-	-Uр Ву							
Detour Length	(km)	6													
Bridge Culvert Information															
Number of Culv	verts		1												
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN		-	1829		SSP		37			12.7	ROUND			
Special Feature	es														
Special Features Comment															
					Uti	ilities (L	ocated.	at)							
Utility Attachme		_					_		I						
Telephone	S. ro						Gas								
Power	5 wire	OH N r	r of w				Municip								
Others							Proble	m (Y/N)	No						
Remarks							. ,								
				Ap	•			ankment							
Llawina ntal Alian					Last	Now	_	ation of							
Horizontal Align					7	7	Approa	ich 10m V	V OH IN	orth side					
Vertical Alignm Roadway Width			9.500		8	8									
					7										
Embankment	-4\		4.0		7	7									
Sideslope (4.0												
(Height of Co		2.2)													
Guardrail (Y/N) No															
Approach Roa	ad / Emb	oankme	nt General Rat	ing	7	7									
						Upstre									
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion					
Direction			_		N										
End Treatment (Concrete, Steel, Others, None)															
Headwall					Х	X									
Collar					Х	X									
Wingwalls					Х	X									
(Shape:)					, ,										
(Shape :)					,										

				eam End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		8	8	50% visible				
Heaving (mm)								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	300							
Scour Protection		8	N	Snow covered				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		8	N					
Beavers (Y/N)	No			Snow covered				
Upstream End General Rating		8	8					
		Brid	dge Cu	lvert Barrel				
Culvert Component		_		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 1829, Type: SSP)				
Barrel Last Accessible Date	19-Mar-2013		<u>, </u>	1678mm ice to crown				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		8	8					
Measured Rise (mm)	1829	0	0					
	1029			near cl - 21 Oct 2009				
Measured At Ring No.								
Sag (mm)								
Percent Sag			1					
Sidewall		8	8					
Measured Span (mm)	1835			near cl				
Measured At Ring No.								
Deflection (mm)	6							
Percent Deflection	0							
Floor		8	8	Sections with ice/dirt on floor				
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		8	8					
Separation (mm)								
Longitudinal Seams		8	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		8	8					
Corrosion By Soil (Y/N)	No	U	U					
	No							
Corrosion By Water (Y/N)								
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							

Culvert Component			Ivert Barrel		
Battle	Culvert Component		Last	Now	Explanation of Condition
Materiary Adequacy	(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 1829, Type: SSP)
Type : Waterway Adequacy No No Silling (Y/N) No No Drift (Y/N) Drift (Y/N) No Drift (Y/N) No Drift (Y/N) Drif	Fish Passage Adequacy		8	8	
Waterway Adequacy 8 8 Licing (YN) No No Drift (YN) No No Drift (YN) Barrel General Rating Both Teatment (Concrete, Steel, Others, None) Direction S TEEL Collar X X X Collar X X X Collar (Shape :) Collar X X X Collar (Shape :) Cuff (Wall X X X Sample (Shape :) Cuff (Wall X X X Sample (Shape :) Cure frotection X X X Sample (Shape :) Cour Frotection A50 Sample (Shape :) Cour Frotection A50 Sample (Shape :) Cour Frotection A8 N Snow covered Cour Frotection A8 N Snow covered Cour Frotection BELOW Sample (Shape :) Cour Frotection R No Snow covered Caurille (Argue in Sample in Sample	Baffle		Х	X	
Silling (Y/N)	(Type:)				
Silling (Y/N)	Waterway Adequacy		8	8	
Silting (Y/N)		No			
Drift (Y/N)		No			
Barrel General Rating					
Culvert Component			8	8	
Culvert Component Last Now Explanation of Condition Direction S STEEL End Treatment (Concrete, Steel, Chiers, None) STEEL X X Collar X X X Collar X X X Wingwalls X X X Citoff Wall X X X Bevel End 8 8 30% visible Heaving (mm) 450 ————————————————————————————————————	3				
Direction			D		
End Treatment (Concrete, Steel, Others, None) STEEL	Culvert Component			Now	Explanation of Condition
Others, None) Headwall X			S		
Variable Variable	End Treatment (Concrete, Steel, Others, None)	STEEL			
Vingwalls	Headwall		Х	Х	
Cutoff Wall	Collar		Х	X	
Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed BELOW Above/Below (mm) Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300) Scour/Erosion Beavers (Y/N) No Downstream End General Rating 8 8 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 THWM (m below Top of Culvert) Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Wingwalls		X	X	
Bevel End	(Shape:)				
Heaving (mm) Invert Above/Below Stream Bed BELOW Above/Below (mm) 450 Scour Protection 8 N Snow covered	Cutoff Wall		Х	X	
Invert Above/Below Stream Bed	Bevel End			8	30% visible
Above/Below (mm) 450	Heaving (mm)				
Scour Protection	Invert Above/Below Stream Bed	BELOW			
(Type : RIP RAP) (Avg. Rock Size(mm) : 300) 8 N Snow covered Scour/Erosion Beavers (Y/N) No Structure 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) HWM not visible. Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Above/Below (mm) 450				
(Avg. Rock Size(mm) : 300) Scour/Erosion 8	Scour Protection		8	N	Snow covered
Scour/Erosion 8 N Snow covered Beavers (Y/N) No Downstream End General Rating 8 8 Structure 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) HWM not visible. Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	(Type: RIP RAP)				
Beavers (Y/N) No Downstream End General Rating 8 8 Structure 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) HWM not visible. Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	(Avg. Rock Size(mm) : 300)				
Downstream End General Rating Structure 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) HWM not visible. Drift (Y/N) HWM not visible. Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Scour/Erosion		8	N	Snow covered
Structure Usage Last Now Explanation of Condition	Beavers (Y/N)	No			
Last Now Explanation of Condition	Downstream End General Ratio	ng	8	8	
Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) HWM not visible. Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)			S	tructu	re Usage
Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) HWM not visible. Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)			Last	Now	Explanation of Condition
Bank Stability 7 HWM (m below Top of Culvert) Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Channel (U/S and D/S)				
HWM (m below Top of Culvert) Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Alignment		7	7	
Drift (Y/N) Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Bank Stability		7	7	
Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	HWM (m below Top of Culvert)				HWM not visible.
Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)					
(Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)					
(Fish Compensation Measure 2 : NONE)	Beavers (Y/N)	No			
	(Fish Compensation Measure 1 :	NONE)			
Channel General Rating 7 7	(Fish Compensation Measure 2 :	NONE)			
	Channel General Rating		7	7	

		Maintenance R	ecommend	dations					
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	6								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 88.9/8	Sufficiency Rating (Last (%)	/Now)	87.1/87.2	Est. Repl. Yr	2058	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Eric Carcoux		Previous	Assistant's Name					
Next Inspection Date	19-Jun-2016		Previous	Inspection Date	21-Sep-2009				
Inspection Cycle (Default) (months)	39								
Comment									