					Bridg	e Culve	ert Inspe	ection						
Bridge File Number 80698 -1 Bridge Culvert							Form Type			CUL1				
Year Built		1986					Lot No.			2				
Bridge or Town	Name	GRANE	DE CACHE				Inspect	or Name		Russel Vande	erschaaf			
Located Over		TRIBUT	TARY TO SMC RCRS-ST	KY RIVE	R, 8.10	.58.29,	Inspect	or Class		BR CLS B	ssel Vanderschaaf CLS B Aug-2012 eresa Lacusta Sep-2012 c Carcoux Sep-2012 vid Morrison Jan-2013 rr. Profile PI./Slab Thickness Shape 2X51 4.0 ROUND			
Located On			C1 28 857					nt Name						
Water Body Cl.	/Year						Assistant Class							
Navigabil. CI./Y								ion Date		23-Aug-2012				
Legal Land Loc		NE SEC	C 3 TWP 59 R	GE 7 W6M	1		Data E	· · ·			sta			
Longitude, Latit			7:01, 54:04:40					ntry Date		25-Sep-2012				
Road Authority			ta Transportation (AIT)					er Name						
Contract Main.	Area	CMA05		. (/ / )			Review Date			24-Sep-2012				
Clear Roadway			, 15 deg. (LHF)							David Morriso	'n			
AADT/Year			2011 (A)				· ·	leview Da	te	10-Jan-2013				
Road Classifica	ation		11.8-110				Follow-Up By							
Detour Length (		60	11.0-110				-							
Bridge Culvert	· · · · · · · · · · · · · · · · · · ·													
Number of Culv			1											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile		Shape		
1	MAIN		-	2134		SP		55.5		152X51		ROUND		
Special Feature			FLOOR ABR I	1=		•					1.10	1.100.12		
Special Feature		ment	120010121											
openant eataire		lioni												
	,				Uti	lities (L	ocated	at)						
Utility Attachme	ents													
Telephone		Gas												
Power							Municipal							
Others		Problem (Y/N) No												
Remarks														
				Α	pproad	ch Road		ankment						
						Now	Explanation of Condition							
Horizontal Align					6	6	Steep grades est 6%. Super elevated. No passing.							
Vertical Alignment					5	5	West end of curve.							
Roadway Width	n (m)		10.200											
Embankment					8	8								
Sideslope (	Sideslope (:1) 2.0													
(Height of Co		<b>7.2</b> )												
Guardrail (Y/N)			No											
Approach Roa	d / Eml	bankme	nt General Ra	ting	5 5									
						Upstre	am End							
Culvert Component					Last	Now	Explanation of Condition							
Direction					N									
End Treatment Others, None)	(Concre	ete, Stee	el, CONCRET	Ξ										
Headwall					7	7	Vertical cracks.							
Collar				1		1								

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		7	7	
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	6	Mostly grown over.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 300)			-	
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	6	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 2134, Type: SP)
Barrel Last Accessible Date	23-Aug-2012		/	
Special Features				
Special Feature		7	7	30-50mm off floor
(Type : FLOOR ABR PLATES)	)	1	_	
Special Feature				
(Type : )		1		
Roof	1	7	7	Est sag
Measured Rise (mm)	2120			Abrasion plates
Measured At Ring No.	10			-
Sag (mm)	146			-
Percent Sag	16			
Sidewall		7	7	
Measured Span (mm)	2091			
Measured At Ring No.	10			
Deflection (mm)	43			-
Percent Deflection	2			
Floor	0	N	N	Abraison plates
Bulge (mm)	0			-
Measured At Ring No.	Vaa			-
Abrasion (Y/N)	Yes			
Circumferential Seams	0	N	7	
Separation (mm)	0		-	
Longitudinal Seams	0	N	7	
Total No. of Cracked Rings	0			3N stagger
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			-
Longitudinal Stagger (Y/N)	Yes		-	
Coating		N	7	
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

80698 -1 Bridge Culvert

Culvert Component     Last     Now     Explanation of Condition       (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):     Rise (mm): 2134, Type: SP)       Camber POS/ZERO/NEG     ZERO     Fish (mm): 2134, Type: SP)       Ponding (Y/N)     No     V     Fish Passage Adequacy     4     4       Fish Passage Adequacy     4     4     Too steep.       Baffle     X     X     X       (Type :)     X     X       Waterway Adequacy     4     4     Pipe can't handle icing. Solid ice to top of culvert25-Fe       Icing (Y/N)     Yes     Rock from R11 to d/s end 200mmD       Sitting (Y/N)     Yes     Rock from R11 to d/s end 200mmD       Drift (Y/N)     No     Festor       Barrel General Rating     7     7       Culvert Component     Last     Now       Direction     S     Explanation of Condition       Direction     S     S       End Treatment (Concrete, Steel, CONCRETE     7     7       Headwall     7     7     7       Collar     X     X     X       Wingwalls     7     7     7       (Shape : )     N     N     N						
Camber POS/ZERO/NEGZEROIIPonding (Y/N)NoIIFish Passage Adequacy44Too steep.BaffleXXXGaffleXX(Type :)YXXWaterway Adequacy44Pipe can't handle icing. Solid ice to top of culvert25-FeIcing (Y/N)YesIPipe can't handle icing. Solid ice to top of culvert25-FeSilting (Y/N)YesIPipe can't handle icing. Solid ice to top of culvert25-FeDirft (Y/N)YesIIDirft (Y/N)NoIPipe can't handle icing. Solid ice to top of culvert25-FeBarrel General RatingYesIICulvert ComponentLastNowExplanation of ConditionDirectionCONCRETEIIDirectionCONCRETEIIHeadwallCONCRETEIIHeadwallT77CollarXXWingwallsNoXYingwallsNoIYingwallsNoIYingwallsNoIYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNoYingwallsNoNo<	Ivert Barrel Explanation of Condition					
Image: Point of the state o						
Fish Passage Adequacy44Too steep.BaffleXXX(Type :)XXXWaterway Adequacy444Icing (Y/N)Yes $4$ 4Silting (Y/N)Yes $6$ $6$ Drift (Y/N)Yes $6$ $6$ Barrel General Rating777Culvert ComponentLastNowDirectionS $E$ End Treatment (Concrete, Steel, None)CONCRETE $7$ 7Headwall $7$ $7$ $7$ $7$ CollarXXX $X$ Wingwalls $6$ $7$ $7$ $(Shape : )$ $7$ $7$ $7$ Cutoff Wall $N$ $N$ $N$						
Baffle         X         X           (Type :)         X         X           Waterway Adequacy         4         4           Icing (Y/N)         Yes         Pipe can't handle icing. Solid ice to top of culvert25-Fe           Silting (Y/N)         Yes         Rock from R11 to d/s end 200mmD           Dirit (Y/N)         No         T         7           Barrel General Rating         7         7         7           Culvert Component         Last         Now         Explanation of Condition           Direction         S         Figure and the advalition of Condition         S           Collar         X         X         X           Wingwalls         7         7         7           (Shape : )         N         N         N						
$\begin{array}{ c c c } (Type:) & & & & & & & & & & & & & & & & & & &$						
$\begin{array}{ c c c } (Type:) & & & & & & & & & & & & & & & & & & &$						
Waterway Adequacy444Pipe can't handle icing. Solid ice to top of culvert25-Fe Rock from R11 to d/s end 200mmDSilting (Y/N)YesIIRock from R11 to d/s end 200mmDDrift (Y/N)NoIIIBarrel General Rating777Culvert ComponentLastNowExplanation of ConditionDirectionSSIEnd Treatment (Concrete, Steel, Others, None)CONCRETEIIHeadwall777CollarXXXWingwallsOYYCutoff WallNNN						
$\begin{array}{ c c c c c } \hline Icing (Y/N) & Yes & I & I \\ \hline Silting (Y/N) & Yes & I & I \\ \hline Drift (Y/N) & No & I \\ \hline T & 7 & 7 \\ \hline T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T & T & T & T \\ \hline T $	b-2010					
Silting (Y/N)YesImage: Constrained and the constrai						
Drift (Y/N)     No     Image: Constraint of Constraint of Condition       Barrel General Rating     7     7       Culvert Component     Last     Now     Explanation of Condition       Direction     S     End Treatment (Concrete, Steel, CONCRETE Others, None)     7     7       Headwall     7     7     7       Collar     X     X       Wingwalls     7     7       Cutoff Wall     N     N						
Barrel General Rating     7     7       Culvert Component     Last     Now     Explanation of Condition       Direction     S     Explanation of Condition       End Treatment (Concrete, Steel, ONCRETE Others, None)     CONCRETE     7       Headwall     7     7       Collar     X     X       Wingwalls     7     7       (Shape : )     N     N						
Culvert ComponentLastNowExplanation of ConditionDirectionSEnd Treatment (Concrete, Steel, Others, None)CONCRETEIHeadwallT77CollarXXXWingwallsTT(Shape : _)NN						
Culvert Component     Last     Now     Explanation of Condition       Direction     S       End Treatment (Concrete, Steel, CONCRETE     Image: Concrete, Steel, CONCRETE     Image: Concrete, Steel, Stee						
Direction S End Treatment (Concrete, Steel, CONCRETE Others, None) 7777 Headwall 777 Collar √ X X Wingwalls 777 (Shape : ) 77 Cutoff Wall N N						
End Treatment (Concrete, Steel, CONCRETE   Others, None)   Headwall   7   7   Collar   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X  <						
Collar     X     X       Wingwalls     7     7       (Shape : )     N     N						
Wingwalls     7     7       (Shape : )     N     N						
(Shape : )       Cutoff Wall       N						
Cutoff Wall N N						
Bevel End N X						
Heaving (mm) 0						
Invert Above/Below Stream Bed BELOW						
Above/Below (mm) 400						
Scour Protection N 7						
(Type : <b>RIP RAP</b> )						
(Avg. Rock Size(mm) : <b>400</b> )						
Scour/Erosion N 7						
Beavers (Y/N) No						
Downstream End General Rating 7 7						
Structure Usage						
Last Now Explanation of Condition						
Channel (U/S and D/S)						
Alignment 8 8						
Bank Stability 8 8						
HWM (m below Top of Culvert)     HWM not visible.						
Drift (Y/N) No						
Channel Bottom Degrading/Aggrading						
Beavers (Y/N) No						
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						
Channel General Rating 8 8						

Maintenance Recommendations													
Inspector Recommendations	Y	Year Inspector Comments					Department Co	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	DFF												
REPAIR SEAMS													
OTHER ACTION	2	2013	Install de	e-icing line,carry o	ver Feb 2009								
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow) 7	77.8/77.8		Sufficiency Rating (Last/Now) (%)		) 5	<b>57.7/57.6</b> Es		. Repl. Yr	2031	Maint. Re	Maint. Reqd. (Y/N)	
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			E	Estimated Tota	0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Russel V	Russel Vanderschaaf Previous A					Assistant's Name						
		23-May-2014 F				Previous Inspection Date 19-Nov-20							
Inspection Cycle (Default) (months) 21													
Comment													