Bridge Culvert Inspection Bridge File Number 08144 -1 Bridge Culvert Form Type CUL1 Year Built 1987 Lot No. 4 Bridge or Town Name KAVANAGH Inspector Name Wade Nanninga Located Over COAL LAKE, 5.47.3, WATERCRS-ST Inspector Class BR CLS B Located On 616:10 C1 9.366 Assistant Name Water Body CL/Year Assistant Class Navigabil. CL/Year Inspection Date 14-Feb-2011 Inspector Date 14-Feb-2011 Legal Land Location SW SEC 18 TWP 48 RGE 23 W4M Data Entry By Theresa Lacusta Inspector Date 14-Feb-2011 Longitude, Latitude -113:21:17, 53:08:03 Data Entry Date 02-Mar-2011 Inspector Date 22-Feb-2011 Contract Main. Area CMA11 Review Date 22-Feb-2011 Inspector Date ADT/Year AdD T/Year 400 / 2009 (A) Dept. Review Date 02-Mar-2011 Inspector Date ADT/Year Road Classification RLU-209-110 Dept. Review Date 02-Mar-2011 Inspector Date Inspector Date Inspector Date Inspector Date Pipe # Ba
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Number of Culverts 1 Pipe # Barrel Span Rise (or Dia.) Type Length Corr. Profile PL/Slab Thickness Shape 1 MAIN - 1800 SP 103.6 152X51 3.0 ROUND Special Features Special Features Comment BF tag installed at N end.
Pipe #BarrelSpanRise (or Dia.)TypeLengthCorr. ProfilePl./Slab ThicknessShape1MAIN-1800SP103.6152X513.0ROUNDSpecial FeaturesSpecial Features CommentBF tag installed at N end.
Special Features Special Features Comment BF tag installed at N end.
Special Features Comment BF tag installed at N end.
Utilities (Located at)
Utility Attachments
Telephone South ditch. Gas
Power Municipal
Others Problem (Y/N) No
Remarks
Approach Road / Embankment
Last Now Explanation of Condition
Horizontal Alignment 7 7 Culvert located in long sag curve in valley.
Vertical Alignment 6 6
Roadway Width (m) 10.000
Embankment 8 8
Sideslope (:1) 6.0
(Height of Cover(m) : 2.2)
Guardrail (Y/N) No
Approach Road / Embankment General Rating 6 6
Upstream End
Culvert Component Last Now Explanation of Condition
Direction N End Treatment (Concrete, Steel, STEEL
Others, None) X X
Collar X X
Wingwalls X X
(Shapa ·)
(Shape :) Cutoff Wall X

Alberta Transportation

	Upstream End						
Culvert Component		Last	Now	Explanation of Condition			
Bevel End	1	N	N	Submerged in ice.			
Heaving (mm)							
Invert Above/Below Stream Bed				_			
Above/Below (mm)							
Scour Protection		6	6				
(Type : NATURAL)							
(Avg. Rock Size(mm) :)			1				
Scour/Erosion		6	6				
Beavers (Y/N)	No						
Upstream End General Rating		5 5		(G.R. from 14/Sept/2004)			
			dge Cu	lvert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 1800, Type: SP)			
Barrel Last Accessible Date				Not accessible, 1.5m ice			
				Shape appears adequate when viewed from ends.			
Special Features							
Special Feature				-			
(Type :)				-			
Special Feature				_			
(Туре :)							
Roof		N	6				
Measured Rise (mm)							
Measured At Ring No.							
Sag (mm)							
Percent Sag							
Sidewall		N	N				
Measured Span (mm)							
Measured At Ring No.							
Deflection (mm)							
Percent Deflection							
Floor		N	N				
Bulge (mm)							
Measured At Ring No.							
Abrasion (Y/N)				1			
Circumferential Seams		N	N				
Separation (mm)							
Longitudinal Seams		N	N				
Total No. of Cracked Rings			14				
Total No. of Rings with Two Cracked Seams							
Min. Remaining Steel Between Cracks (mm)							
Proper Lap (Y/N)							
Longitudinal Stagger (Y/N)							
		N	NI				
Coating		N	N				
Corrosion By Soil (Y/N)				-			
Corrosion By Water (Y/N)							
Camber POS/ZERO/NEG	NEG						
Ponding (Y/N)	Yes						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

08144 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa		an (mm):		, Rise (mm): 1800, Type: SP)				
Fish Passage Adequacy		6	6					
Baffle		N	N					
(Type:)			-					
Waterway Adequacy	Vaterway Adequacy		4	This pipe is an equalizer across lake.				
Icing (Y/N)	No			Pipe almost full.				
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		5 5		(G.R. was 5 from 14/Sept/2004)				
Culvert Component			ownsu Now	eam End Explanation of Condition				
Direction		S		Water 1.6m deep.				
End Treatment (Concrete, Steel, Others, None)	STEEL	0						
Headwall		Х	X					
Collar	Collar		Х					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		N	N	Completely submerged.				
Heaving (mm)								
Invert Above/Below Stream Bed								
Above/Below (mm)								
Scour Protection		4	N					
(Type : NONE)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		4	N	Minor erosion above pipe and toe of embankment20-Nov-2007				
Beavers (Y/N)								
Downstream End General Rating		4	4	GR carried fwd.				
		S	structu	re Usage				
			Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		N	8	U/S & D/S terminate in lakes. No defined channel.				
Bank Stability		N	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	Year Inspector Comments		Department Comments				Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) 55.6/55. (%)		.6 Sufficiency Rating (Last/N (%)	low) 5	53.2/53.6 Est. Repl. Yr 2027		2027	Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection					Department Comments						
flaintenance Reviewed By				Date		Estimated Total 0					
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Jacob Oresile F		Previous Assistant's Name									
Next Inspection Date 14-May-2014		Previous Inspection Date 20-Nov-2007									
Inspection Cycle (Default) (months)	39										
Comment											