

Bridge Culvert Inspection			
Bridge File Number	86265 -1 Bridge Culvert	Form Type	CULM
Year Built	1958	Lot No.	1
Bridge or Town Name	WATERCOURSE CULVERT ON HWY 2 NEAR RYCROFT	Inspector Name	Russel Vanderschaaf
Located Over	WATERCOURSE, WATERCRS-NI	Inspector Class	BR CLS B
Located On	2:68 C1 21.081	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	10-Nov-2011
Legal Land Location	NW SEC 24 TWP 79 RGE 5 W6M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-118:38:52, 55:51:60	Data Entry Date	16-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	12-Dec-2011
Clear Roadway/Skew		Dept. Reviewer Name	Steve Pasquan
AADT/Year	2,670 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification		Follow-Up By	
Detour Length (km)			

Bridge Culvert Information

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	750	MP	28	68X13	2.8	ROUND
2	MAIN	-	900	MP	30	68X13	2.8	ROUND
3	MAIN	-	900	MP	30	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		8	
Vertical Alignment		8	
Roadway Width (m)	10.400		
Embankment		3	2m x 5m x 0.5m scour with 3m of shoulder (photo)
Sideslope (__:1)	3.0		
(Height of Cover(m) : 2.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		8	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			
Direction		E	
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall		X	
Collar		X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			4	Bevel deformed by slumping dirt
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection			3	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			3	Eroding around pipe (photo)
Beavers (Y/N)	No			
Upstream End General Rating			3	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 750, Type: MP)				
Barrel Last Accessible Date				Viewed from ends
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			4	Extensive corrosion
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			N	
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 750, Type: MP)				
Coating			4	Extensive corrosion
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			6	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating			N	

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)					
Barrel Last Accessible Date				Viewed from ends	
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Roof			N		
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)					
Percent Sag					
Sidewall			N		
Measured Span (mm)					
Measured At Ring No.					
Deflection (mm)					
Percent Deflection					
Floor			2	Severe corrosion (photo)	
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)					
Circumferential Seams			N		
Separation (mm)					
Longitudinal Seams			N		
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)					

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Coating			2	Severe perforations in floor - photo
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			6	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating			2	

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)					
Barrel Last Accessible Date					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Roof			N		
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)					
Percent Sag					
Sidewall			N		
Measured Span (mm)					
Measured At Ring No.					
Deflection (mm)					
Percent Deflection					
Floor			2	Severe erosion - photo	
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)					
Circumferential Seams			N		
Separation (mm)					
Longitudinal Seams			N		
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)					

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Coating			2	Severe perforations in floor - photo
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			6	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating			2	

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 3, Span Type:)					
Direction		W			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall			X		
Collar			X		
Wingwalls (Shape :)			X		
Cutoff Wall			X		
Bevel End			4	Extensive corrosion	
Heaving (mm)	50				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	150				
Scour Protection			5		
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion			5		
Beavers (Y/N)					
Downstream End General Rating			4		

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			5	
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)				
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			5	

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	2012	Replace all 3 culverts					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/22.2	Sufficiency Rating (Last/Now) (%)	/39.6	Est. Repl. Yr	2012	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name			Previous Assistant's Name				
Next Inspection Date	10-Aug-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							