

Bridge Culvert Inspection			
Bridge File Number	78859 -1 Bridge Culvert	Form Type	CUL1
Year Built	1978	Lot No.	4
Bridge or Town Name	STAND OFF	Inspector Name	Jason Rusu
Located Over	2ND ORDER TRIBUTARY TO PRAIRIE BLOOD COULEE, 2.12.20.1.1.1, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	
Located On	509:02 C1 10.302	Assistant Class	
Water Body Cl./Year		Inspection Date	17-Nov-2012
Navigabil. Cl./Year		Data Entry By	Kelsey Roberts
Legal Land Location	SE SEC 21 TWP 6 RGE 24 W4M	Data Entry Date	14-Dec-2012
Longitude, Latitude	-113:10:25, 49:28:56	Reviewer Name	Garry Roberts
Road Authority	Alberta Transportation (AIT)	Review Date	01-Dec-2012
Contract Main. Area	CMA25	Dept. Reviewer Name	Tim Davies
Clear Roadway/Skew	10 / 39 deg. (RHF)	Dept. Review Date	27-Dec-2012
AADT/Year	1,400 / 2011 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	10		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1800	MP	53.6	75X25	3.5,3.5,3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	EAST SIDE	Gas	30 m OFF TO EAST
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	CURVE 120 m SOUTH. NO PASSING SOUTH BOUND.
Vertical Alignment		7	7	
Roadway Width (m)	10.000			
Embankment		6	6	Some minor erosion in the SW ditch
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 4.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		WEST END.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	6	Grass growing through the rocks
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):				, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	06-Sep-2009			700mm of water in the pipe with thin ice and silt too hazardous to enter.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	(Sag noticeable 2nd section from each end) 5-Sept-2009. Viewed from ends- est 10% deflection and 6% SAG. P.R. 5
Measured Rise (mm)	1690			
Measured At Ring No.	8			
Sag (mm)	110			
Percent Sag	6			
Sidewall		4	N	P.R. 4
Measured Span (mm)	1973			
Measured At Ring No.	8			
Deflection (mm)	173			
Percent Deflection	10			
Floor		N	N	(200mm of silt)
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	N	(NO NOTICABLE DIRT INFILTRATION 60mm vertical seperation R1)
Separation (mm)	80			
Longitudinal Seams		X	X	((GROUTED 910408)) 20030218
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		5	N	(ALKALINE STAINS JUST ABOVE WATERLINE - MINOR minor corrosion) P.R. 5
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)					
Ponding (Y/N)	No				
Fish Passage Adequacy		7	7		
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	6	200mm Silt	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
Barrel General Rating		4	4	G.R. carried forward	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		E		EAST END.	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		7	N	Snow covered	
Heaving (mm)	100				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	600				
Scour Protection		6	N	(Grass growing through the rocks) 5-Sept-2009	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 200)					
Scour/Erosion		6	N		
Beavers (Y/N)	No				
Downstream End General Rating		7	N		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		7	7	FARMER HAS EARTHEN DAM 25 m U/S AS A DUGOUT FOR CATTLE.	
Bank Stability		7	7		
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		7	7		

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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	55.4/53.2	Est. Repl. Yr	2020	Maint. Req'd. (Y/N)	No
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	17-Feb-2016		Previous Inspection Date	06-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							