

Bridge Culvert Inspection			
Bridge File Number	72079 -2 Bridge Culvert	Form Type	CUL1
Year Built	2010	Lot No.	4
Bridge or Town Name	GEM	Inspector Name	Diego Alvarez
Located Over	2ND ORDER TRIBUTARY TO MATZHIWIN CREEK, 3.14.3.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	862:04 C1 13.560	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Jan-2011
Legal Land Location	SW SEC 1 TWP 24 RGE 16 W4M	Data Entry By	Erin Roberts
Longitude, Latitude	-112:06:45, 51:00:31	Data Entry Date	04-Mar-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA23	Review Date	08-Feb-2011
Clear Roadway/Skew	8.6 / -5 deg. (LHF)	Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	110 / 2009 (A)	Dept. Review Date	07-Mar-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	10		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	34	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South R.O.W.	Gas	
Power	2 Wire North, 3 Wire crosses road West	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment			9	
Vertical Alignment			8	
Roadway Width (m)	8.600			
Embankment			9	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 2.1)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating			8	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		1800mm diameter CSP 3.0m North
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End			9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion			9	
Beavers (Y/N)	No			
Upstream End General Rating			9	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2200 , Type: MP)				
Barrel Last Accessible Date	27-Jan-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			9	
Measured Rise (mm)	2000			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall			9	
Measured Span (mm)	2215			
Measured At Ring No.				3/4 from U/S
Deflection (mm)	15			
Percent Deflection	1			
Floor			9	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			9	
Separation (mm)	40			
Longitudinal Seams			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			9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Fish Passage Adequacy			9	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			9	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion			9	
Beavers (Y/N)	No			
Downstream End General Rating			9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			8	
Bank Stability			9	
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	

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) (%)	/100.0	Sufficiency Rating (Last/Now) (%)	/95.7	Est. Repl. Yr	2060	Maint. Req. (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			Previous Assistant's Name				
Next Inspection Date	27-Apr-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	39						
Comment							