

Bridge Culvert Inspection			
Bridge File Number	01366 -2 Bridge Culvert	Form Type	CUL1
Year Built	2007	Lot No.	4
Bridge or Town Name	DELBURNE	Inspector Name	Jason Saly
Located Over	GAETZ CREEK, 3.69, WATERCRS-ST	Inspector Class	BR CLS A
Located On	595:02 C1 29.619	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	22-Nov-2011
Legal Land Location	SW SEC 1 TWP 38 RGE 24 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-113:18:33, 52:13:49	Data Entry Date	21-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA19	Review Date	15-Dec-2011
Clear Roadway/Skew	11.8 / 20 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	1,840 / 2010 (A)	Dept. Review Date	09-Jan-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3360	SP	86.564	152X51	4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	N ditch.	Gas	
Power	3 o/h N fenceline.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		7	Farm access at NW & SE. Limited sight distance to W.
Vertical Alignment		6	
Roadway Width (m)	13.000		Measure next inspection.
Embankment		7	
Sideslope (_ :1)	3.0		
(Height of Cover(m) :)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating		6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall		8	Snow covered.
Collar		N	
Wingwalls		X	
(Shape :)			Buried.
Cutoff Wall		N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End			8	Not visible.
Heaving (mm)				
Invert Above/Below Stream Bed				Not visible.
Above/Below (mm)				
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating			8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 3360 , Type: SP)				
Barrel Last Accessible Date	22-Nov-2011			5 steel pipes installed at S inlet.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			8	Could not measure rise due to ice on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			8	Span at $R10=3334=26\text{mm}=0.8\%$.
Measured Span (mm)	3334			
Measured At Ring No.	10			
Deflection (mm)	26			0.8%
Percent Deflection	1			
Floor			N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			8	
Separation (mm)	0			
Longitudinal Seams			8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			2N
Longitudinal Stagger (Y/N)	Yes			
Coating			7	
Corrosion By Soil (Y/N)	Yes			At R19, E side.
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): 3360, Type: SP)				
Fish Passage Adequacy			8	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall			8	
Collar			N	Snow covered.
Wingwalls			X	
(Shape :)				
Cutoff Wall			N	Buried.
Bevel End			8	Not visible.
Heaving (mm)				
Invert Above/Below Stream Bed				Not visible.
Above/Below (mm)				
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating			8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			7	Bends to E d/s.
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			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) (%)	/88.9	Sufficiency Rating (Last/Now) (%)	/86.5	Est. Repl. Yr	2055	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	22-Feb-2015		Previous Inspection Date				
Inspection Cycle (Default) (months)	39						
Comment							