

Bridge Culvert Inspection				
Bridge File Number	73314 -2 Bridge Culvert		Form Type	CUL1
Year Built	2003		Lot No.	4
Bridge or Town Name	BUCREEK LAKE		Inspector Name	Owen Salava
Located Over	TRIBUTARY TO BUCKLAKE CREEK, 6.132.2.10, WATERCRS-ST		Inspector Class	BR CLS A
Located On	761:10 C1 4.825		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	06-Jan-2012
Legal Land Location	SE SEC 30 TWP 46 RGE 5 W5M		Data Entry By	Marcia Chavez
Longitude, Latitude	-114:42:52, 52:59:35		Data Entry Date	02-Feb-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Jason Saly
Contract Main. Area	CMA17		Review Date	28-Jan-2012
Clear Roadway/Skew	7.3 / 0 deg.		Dept. Reviewer Name	Andrew Smikles
AADT/Year	320 / 2010 (A)		Dept. Review Date	09-Feb-2012
Road Classification	RCU-208G-90		Follow-Up By	
Detour Length (km)	20			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2700	MP	36.7	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	'T' intersection 80m NW. Hill to South, limited sight distance.
Vertical Alignment		6	6	
Roadway Width (m)	7.300			4:1 over pipe.
Embankment		6	6	
Sideslope (__:1) (Height of Cover(m) : 1.8)	2.0			
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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		9	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		9	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		9	N	
Beavers (Y/N)	Yes			Possible dam 20m u/s.
Upstream End General Rating		9	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2700 , Type: MP)				
Barrel Last Accessible Date	06-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				Est. 2%
Percent Sag				
Sidewall		N	7	
Measured Span (mm)	2780			At midspan.
Measured At Ring No.				
Deflection (mm)	80			2.9%
Percent Deflection	3			
Floor		N	N	Under 1.2m ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	
Separation (mm)				
Longitudinal Seams		X	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	7	Surface erosion to 2/3 depth.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): 2700, Type: MP)					
Fish Passage Adequacy		7	7		
Baffle		N	N		
(Type :)					
Waterway Adequacy		7	7	Unknown	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		8	7		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		W			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		9	7		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	300				
Scour Protection		9	N	Snow covered.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 250)					
Scour/Erosion		9	N		
Beavers (Y/N)	No				
Downstream End General Rating		9	7		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		5	5	D/S bend to NE.	
Bank Stability		7	7		
HWM (m below Top of Culvert)				HWM not visible.	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading				Unknown. Possible dam 20m u/s - breached.	
Beavers (Y/N)	Yes				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		5	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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/77.8	Sufficiency Rating (Last/Now) (%)	84.2/75.1	Est. Repl. Yr	2060	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	06-Apr-2015		Previous Inspection Date	15-Sep-2005			
Inspection Cycle (Default) (months)	39						
Comment							