

Bridge Culvert Inspection			
Bridge File Number	75361 -1 Bridge Culvert	Form Type	CUL1
Year Built	1981	Lot No.	2
Bridge or Town Name	BAY TREE	Inspector Name	Russel Vanderschaaf
Located Over	2ND ORDER TRIBUTARY TO POUCE COUPE RIVER, 8.10.97.1.1, WATERCRS-ST	Inspector Class	BR CLS B
		Assistant Name	
Located On	681:02 C1 12.679	Assistant Class	
Water Body Cl./Year		Inspection Date	06-Mar-2012
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	NW SEC 5 TWP 81 RGE 11 W6M	Data Entry Date	28-Mar-2012
Longitude, Latitude	-119:41:49, 55:59:48	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	22-Mar-2012
Contract Main. Area	CMA05	Dept. Reviewer Name	David Morrison
Clear Roadway/Skew	11 / -3 deg. (LHF)	Dept. Review Date	18-Oct-2012
AADT/Year	320 / 2011 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	20		

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	2200	SP	28	152X51		ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	WEST R/W	Gas	
Power	3 LINE O/H 15 M E. OF C/L	Municipal	
Others		Problem (Y/N)	Yes
Remarks	2 cables cross under bevel at d/s end.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	HOUSE ACCESS (E) 150 M S. FIELD ACCESS (E) 100 M N.
Vertical Alignment		7	7	
Roadway Width (m)	9.100			
Embankment		7	3	Vertical bank 4m from shoulder of road due to scour at d/s end.- photo
Sideslope (__:1)	3.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	3	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	3	Undermined 2.5mLx0.5mD
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		3	3	Undermined 2.5mLx0.5mD, along sides of bevel.-photo
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		3	3	Undermined 2.5mLx0.5mD, along sides of bevel.-photo
Beavers (Y/N)	No			
Upstream End General Rating		3	3	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: SP)				
Barrel Last Accessible Date	06-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	3.4% Sag.2002Jun2
Measured Rise (mm)				Could not measure due to ice.
Measured At Ring No.				
Sag (mm)	72			
Percent Sag	3			
Sidewall		6	7	C/L of road, 11m from u/s end.
Measured Span (mm)	2242			
Measured At Ring No.				
Deflection (mm)	42			
Percent Deflection	2			
Floor		6	6	C/L of road.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	1st seam repaired with tar & timbers.
Separation (mm)	180			
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		4	4	Pitting rust on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	3	Drop at outlet.photo
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	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		3	3	Bevel dented & torn. unsupported for 3m
Heaving (mm)	90			
Invert Above/Below Stream Bed	ABOVE			1500 mm above ice(photo)
Above/Below (mm)	1500			
Scour Protection		3	3	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		3	3	Scour 12mLx10mWx1.2mD.
Beavers (Y/N)	No			
Downstream End General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 degree bend at u/s end, 50m u/s. Drop structure.
Bank Stability		5	5	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	70 m3/ class 1, u/s and d/s.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Repair hanging bevel and undermined bevel.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/77.8	Sufficiency Rating (Last/Now) (%)	50.2/42.6	Est. Repl. Yr	2027	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	Laurie McCarron		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	06-Jun-2015		Previous Inspection Date	19-Nov-2008			
Inspection Cycle (Default) (months)	39						
Comment							