

Bridge Culvert Inspection			
Bridge File Number	73434 -1 Bridge Culvert	Form Type	CUL1
Year Built/Lined	1959/1998	Lot No.	4
Bridge or Town Name	HOTCHKISS	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO GRAVINA CREEK, 8.10.41.2.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	35:10 C1 1.682	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	15-Nov-2011
Legal Land Location	SW SEC 8 TWP 97 RGE 22 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:32:36, 57:23:46	Data Entry Date	14-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	12-Dec-2011
Clear Roadway/Skew	10.2 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,050 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	100		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
2	MAIN FULL LINER	-	1500	SSP	34.7			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	7 wire 0/h on West side.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		5	7	
Vertical Alignment		7	7	
Roadway Width (m)	10.200			
Embankment		7	6	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		N	X	
Collar		N	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		N	X	
Cutoff Wall		N	X	
Bevel End		N	6	Dent on bevel @ 2 o'clock
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection (Type : NONE) (Avg. Rock Size(mm) :)		N	4	Debris in bevel.-16-May-2008
Scour/Erosion		N	4	Scour around bevel, build up pf debris & silt in front of cage causing minor alignment problem.-May 16,2008 Scour around bevel.
Beavers (Y/N)	No			Beaver cage leaned against bevel.
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2 , Secondary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1500 , Type: SSP)				
Barrel Last Accessible Date				
Special Features				
Special Feature (Type :)				Shape appears adequate.
Special Feature (Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	X	
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: SSP)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	(Beaver grates on d/s, cage leaned against pipe @ u/s end. Debris in pipe near u/s end.-May 16,2008)
Baffle		N	X	
(Type :)				
Waterway Adequacy		N	4	Debris at u/s end
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	
Downstream 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	
Bevel End		N	6	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			Beaver grate attached.-May 16, 2008
Downstream End General Rating		5	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		N	6	Old bridge piles 70m u/s.
Bank Stability		5	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			U/S 30m dam across channel.
Beavers (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	6	

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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	57.0/42.2	Est. Repl. Yr	2046	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	15-Aug-2013		Previous Inspection Date	16-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							