

Bridge Culvert Inspection			
Bridge File Number	71061 -1 Bridge Culvert	Form Type	CUL1
Year Built	1986	Lot No.	
Bridge or Town Name	SEXSMITH	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO GRANDE PRAIRIE CREEK, 8.10.58.18.2.5.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	672:04 C1 34.206	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-May-2010
Legal Land Location	SW SEC 15 TWP 73 RGE 6 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:50:45, 55:18:58	Data Entry Date	14-Jun-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	
Contract Main. Area	CMA05	Review Date	
Clear Roadway/Skew	9.2 / -15 deg. (LHF)	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,210 / 2009 (A)	Dept. Review Date	19-Aug-2010
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1600	MP	31	68X13	2.8,2.8,2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments					
Telephone	S. r/w	Gas	x's hwy 50m W. & rd. 75m S.		
Power	N. r/w-3 wire, S. r/w -3 wire	Municipal			
Others	x's over hwy E. & W.-4 wire	Problem (Y/N)	No		
Remarks	THERE ARE GUIDEWIRES OVER S. end.				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Range road 63 -20m to West.
Vertical Alignment		8	8	
Roadway Width (m)	9.200			
Embankment		8	8	
Sideslope (_ :1)	4.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Barrel Last Accessible Date	11-May-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	4	Dent in roof 8m from u/s end 0.3mWx6.2mLx0.05mD.
Measured Rise (mm)	1463			@ cl
Measured At Ring No.	3			
Sag (mm)	137			
Percent Sag	9			
Sidewall		5	4	Dent in East side wall 2.3m from u/s end 0.4mWx0.5mLx0.08mD.
Measured Span (mm)	1744			@ cl
Measured At Ring No.	3			
Deflection (mm)	144			
Percent Deflection	9			
Floor		N	N	Silt and water covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	5m from u/s end.
Separation (mm)	115			
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 lower 1/3 of pipe.
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): 1600, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	D/S end has fnce directly after bevel.
Bank Stability		8	8	
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	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) (%)	55.6/44.4	Sufficiency Rating (Last/Now) (%)	66.5/61.2	Est. Repl. Yr	2031	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor barrel shape.		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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	11-Aug-2013		Previous Inspection Date	13-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							