

Bridge Culvert Inspection			
Bridge File Number	00392 -1 Bridge Culvert	Form Type	CUL1
Year Built	1982	Lot No.	3
Bridge or Town Name	TOFIELD	Inspector Name	Owen Salava
Located Over	KATCHEMUT CREEK, 6.62.13, WATERCRS-ST	Inspector Class	BR CLS A
Located On	14:06 C1 36.017	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Jan-2012
Legal Land Location	SE SEC 4 TWP 51 RGE 19 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:44:30, 53:22:01	Data Entry Date	14-Feb-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Jason Saly
Contract Main. Area	CMA09	Review Date	27-Jan-2012
Clear Roadway/Skew	13.5 / -22 deg. (LHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	4,550 / 2010 (A)	Dept. Review Date	23-Feb-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	2610	2877	SPE	43.3	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment	5% V.E.							

Utilities (Located at)

Utility Attachments			
Telephone	South r/w.	Gas	
Power	3 wires North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Farm accesses NW.
Vertical Alignment	6	6	Hill to the East, limited sight distance. No passing EB.
Roadway Width (m)	11.500		
Embankment	7	7	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)	Yes		50m South side. 46m North side. There are 2 damaged sections of flexbeam & 1 broken block.
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		7	7	Bushes encroaching on opening.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	Well grassed with some rock.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2610, Rise (mm): 2877, Type: SPE)				
Barrel Last Accessible Date	09-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	&Rise @ R5 = 2846, 31mm. 03Jun2010). Unable to measure due to ice.
Measured Rise (mm)	2838			
Measured At Ring No.	9			
Sag (mm)	39			(1.4%. 03Jun2010).
Percent Sag	1			
Sidewall		6	6	Small hole in East sidewall of R10 at 2:00 position. Span @ ring 5 = 2641, 31mm.
Measured Span (mm)	2652			
Measured At Ring No.	9			
Deflection (mm)	42			1.6%
Percent Deflection	2			
Floor		N	N	Ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Starting to rust. Staining @ seams.
Corrosion By Soil (Y/N)	Yes			
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): 2610, Rise (mm): 2877, Type: SPE)				
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Minor branches in pipe.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		6	6	
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		7	7	Some rocks in bevel end.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Bend on U/S end.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not 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		6	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	2012	Replace 2 sections W-beam in S guardrail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.4/70.6	Est. Repl. Yr	2029	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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	09-Oct-2013		Previous Inspection Date	03-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							