

Bridge Culvert Inspection			
Bridge File Number	00146 -1 Bridge Culvert	Form Type	CUL1
Year Built	1954	Lot No.	4
Bridge or Town Name	STETTLER	Inspector Name	Owen Salava
Located Over	2ND ORDER TRIBUTARY TO TAIL CREEK, 3.65.1.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	56:12 C1 36.009	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	10-May-2011
Legal Land Location	SW SEC 6 TWP 38 RGE 19 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:43:09, 52:14:03	Data Entry Date	19-May-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA20	Review Date	16-May-2011
Clear Roadway/Skew	7.4 /	Dept. Reviewer Name	Chris Black
AADT/Year	1,620 / 2010 (A)	Dept. Review Date	19-May-2011
Road Classification	RAU-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	-	1500	MP	24.4	75X25	2.8	ROUND
Special Features	VERT TIMBER STRUTS							
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	West r/w.	Gas		
Power	2 wire 25m East.	Municipal		
Others		Problem (Y/N)	No	
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Good sight distance. Typical field entrances.
Vertical Alignment		8	8	
Roadway Width (m)	8.200			
Embankment		7	7	
Sideslope ( __:1)	3.0			
(Height of Cover(m) : 1.6)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>8</b>	<b>8</b>	

**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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		7	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>1500</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	07-Oct-2009			Water to 400mm of roof. Viewed from ends, looks OK.
<b>Special Features</b>				
Special Feature		4	N	(Very old struts, likely during installation. Bottom cap is rotten in spots. 07Oct2009).
(Type : <b>VERT TIMBER STRUTS</b> )				
Special Feature				
(Type : )				
Roof		5	N	(6.7%. 07Oct2009).
Measured Rise (mm)	1400			
Measured At Ring No.	3			
Sag (mm)	100			
Percent Sag	7			
Sidewall		5	N	(6.9%. 07Oct2009).
Measured Span (mm)	1603			
Measured At Ring No.	3			
Deflection (mm)	103			
Percent Deflection	7			
Floor		N	N	(Silt covered. 07Oct2009).
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	90			
Longitudinal Seams		7	N	Riveted.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	(Scaling rust along floor. 07Oct2009).
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): 1500, Type: MP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type : )				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>5</b>	<b>N</b>	GR was 5 from 07Oct2009.
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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.8/61.9</b>	Est. Repl. Yr	2019	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	HWY will likely be widened soon, therefore replace pipe at that time. Consider moving pipe S, approx. 15m, also.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	10-Feb-2013		Previous Inspection Date	07-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							