

Bridge Culvert Inspection				
Bridge File Number	71404 -1 Bridge Culvert		Form Type	CUL1
Year Built	1999		Lot No.	4
Bridge or Town Name	GAGE		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO ISLAND CREEK, 8.10.80.2.2, WATERCRS-ST		Inspector Class	BR CLS B
Located On	64:06 C1 16.833		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	03-Nov-2011
Legal Land Location	NW SEC 13 TWP 82 RGE 4 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:29:47, 56:06:46		Data Entry Date	12-Dec-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	20-Nov-2011
Clear Roadway/Skew	11 /		Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,030 / 2010 (A)		Dept. Review Date	10-Jan-2012
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	3			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	4987	2698	RPE	14.02	152X51	4.0,4.0,4.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	East r/w		Gas	
Power	EAST SIDE 3W		Municipal	
Others			Problem (Y/N)	No
Remarks	Hazard markers @ centerline of culvert.			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrances both directions.(50 m away)
Vertical Alignment		8	8	
Roadway Width (m)	11.000			
Embankment		8	7	
Sideslope ( :1)	3.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	6	35% scaling
Collar		X	X	
Wingwalls (Shape : )		4	4	Timber from old bridge Top plank SE wingwall broken Top 2 planks NE wing rotten and broken past pile

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)				
Scour Protection		4	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	2m long scour behind rock overgrown w/grass, located N side of culvert invert.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4987, Rise (mm): 2698, Type: RPE)				
Barrel Last Accessible Date	17-Dec-2009			dEEP WATER, NOT ACCESSIBLE
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	N	(ESTIMATED, 0% DEFLECTION - 19990923)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	10			
Percent Sag				
Sidewall		7	N	Measured at culvert cl-17-Dec-2009
Measured Span (mm)	4934			
Measured At Ring No.				
Deflection (mm)	6			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		8	N	
Separation (mm)	0			
Longitudinal Seams		8	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		6	N	Minor superficial rust lower 1/2.-17-Dec-2009
Corrosion By Soil (Y/N)	No			Rust stains and alkaline deposits through bolts.-17-Dec-2009
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4987, Rise (mm): 2698, Type: RPE)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	N	
(Type : )				
Waterway Adequacy		8	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>N</b>	GR was '7' on 17-Dec-2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Top of headwall scaling.10%
Collar		X	X	
Wingwalls		4	5	TIMBER FROM OLD BRIDGE. 1 broken plank BW wingwall.
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Deep water and ice.
Above/Below (mm)				
Scour Protection		4	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	5	Minor scour 0.2m deepx0.5m long around rock overgrown w/grass.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		6	5	Sloughing stream banks. Falling trees.
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	Yes			Drift accumulation 12m from d/s end.
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel General Rating</b>		7	7	

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>77.8/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>73.6/67.8</b>	Est. Repl. Yr	2040	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	03-Aug-2013		Previous Inspection Date	17-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							