

Bridge Culvert Inspection				
Bridge File Number	76493 -1 Bridge Culvert		Form Type	CUL1
Year Built	1995		Lot No.	2
Bridge or Town Name	GROVEDALE		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO IROQUOIS CREEK, 8.10.58.18.9.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	666:02 C1 0.000		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	19-Aug-2010
Legal Land Location	NW SEC 5 TWP 69 RGE 8 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	::, ::		Data Entry Date	13-Oct-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	UNDEFINED CMA		Review Date	20-Sep-2010
Clear Roadway/Skew	8.8 / -22 deg. (LHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year			Dept. Review Date	23-Nov-2010
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	999			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1800	MP	36	125X26	2.8	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	WEST SIDE		Gas	
Power	EAST SIDE - 3W		Municipal	
Others			Problem (Y/N)	No
Remarks	POWER LINE WIRES RIGHT OVER U/S INV.			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		9	9	
Roadway Width (m)	9.000			
Embankment		9	4	Scour in SW ditch 5mLx0.5mWx0.6mD-photo
Sideslope ( __:1)	3.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>4</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)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>100</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>1800</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	19-Aug-2010			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	
Measured Rise (mm)	1762			near cl
Measured At Ring No.				
Sag (mm)	38			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	1841			near cl
Measured At Ring No.				
Deflection (mm)	41			
Percent Deflection	2			
Floor		N	N	water covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	
Separation (mm)	50			
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		N	6	Scaling rust 1/3 down
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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): 1800, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle (Type : )		N	X	
Waterway Adequacy		7	7	(Icing within 130mm of crown d/s - 2004/03/01)
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
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 (Shape : )		X	X	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)				
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)		400		
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
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		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM NOT VISIBLE.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading				stable 50 M U/S & 15m U/S.
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Channel General Rating</b>		<b>8</b>	<b>8</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2010	Place 2m3 of class I riprap in SW ditch					
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>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>75.3/64.8</b>	Est. Repl. Yr	2044	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	19-May-2015		Previous Inspection Date	27-May-2007			
Inspection Cycle (Default) (months)	57						
Comment							