

Bridge Culvert Inspection				
Bridge File Number	79403 -1 Bridge Culvert		Form Type	CUL1
Year Built	1980		Lot No.	1
Bridge or Town Name	GORDONDALE		Inspector Name	Brian Pientsch
Located Over	2ND ORDER TRIBUTARY TO HENDERSON CREEK, 8.10.97.8.9.1, WATERCRS-ST		Inspector Class	BR CLS A
			Assistant Name	Brian Cote
Located On	49:02 C1 29.344		Assistant Class	
Water Body Cl./Year			Inspection Date	06-Jul-2011
Navigabil. Cl./Year			Data Entry By	Theresa Lacusta
Legal Land Location	SE SEC 13 TWP 79 RGE 11 W6M		Data Entry Date	19-Jul-2011
Longitude, Latitude	-119:34:27, 55:50:23		Reviewer Name	Arnold Assenheimer
Road Authority	Alberta Transportation (AIT)		Review Date	13-Jul-2011
Contract Main. Area	CMA05		Dept. Reviewer Name	Steve Pasquan
Clear Roadway/Skew	10.8 / -55 deg. (LHF)		Dept. Review Date	18-Nov-2011
AADT/Year	1,140 / 2010 (A)		Follow-Up By	
Road Classification	RAU-210-110			
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	-	1600	MP	57	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	N & S row		Gas
Power	3 line in S. row		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		8	8	
Roadway Width (m)	10.800			
Embankment		7	7	
Sideslope ( __:1)	4.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	3	Bevel torn away and rotated.
Heaving (mm)	80			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	3	Sloughing and embankment failure above bevel.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	3	Embankment failure.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>6</b>	<b>3</b>	
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	05-Jul-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		6	5	Near cl
Measured Rise (mm)	1520			
Measured At Ring No.	3			
Sag (mm)	80			
Percent Sag	5			
Sidewall		6	5	Near cl. Several inward deflections- construction damage.
Measured Span (mm)	1690			
Measured At Ring No.	3			
Deflection (mm)	90			
Percent Deflection	6			
Floor		6	4	Pitting
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	3	At joint 2, sawcut at 3:00-100mm long -No problem. 1st seam torn appart.
Separation (mm)	80			
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	Scaling/pitting rust on lower 1/3.
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): 1600, Type: MP)				
Fish Passage Adequacy		4	5	
Baffle		X	X	
(Type : )				
Waterway Adequacy		6	4	2x915mm CSP's removed.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>6</b>	<b>4</b>	
Downstream 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	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	7	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
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		6	6	
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 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<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	2011	Assess					
OTHER ACTION	2011	Replace inlet.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>22.2/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>33.3/47.4</b>	Est. Repl. Yr	2017	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Replace inlet and assess.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	06-Apr-2013		Previous Inspection Date	27-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							