

Bridge Culvert Inspection									
Bridge File Number	79123 -1 Bridge Culvert				Form Type	CUL1			
Year Built	1979				Lot No.	4			
Bridge or Town Name	BARRHEAD				Inspector Name	Melanie Johnson			
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS B			
Located On	18:08 C1 8.367				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Aug-2011			
Legal Land Location	SW SEC 9 TWP 59 RGE 5 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:41:58, 54:04:52				Data Entry Date	19-Sep-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA10				Review Date	07-Sep-2011			
Clear Roadway/Skew	10 / 0 deg.				Dept. Reviewer Name	Brent Herrick			
AADT/Year	880 / 2010 (A)				Dept. Review Date	28-Sep-2011			
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	-	2134	MP	30	75X25	2.8	ROUND	
Special Features									
Special Features Comment									
Posting Information									
Required Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)									
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Lane	SB	On Bridge (m)	In Advance (Y/N)	
Remarks									
Utilities (Located at)									
Utility Attachments									
Telephone	North r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road / Embankment									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Private access 100m East. Local road intersection 100m West. Grade rising to west & crest curve 300m West. No passing EBL.				
Vertical Alignment			5	5					
Roadway Width (m)	10.000								
Embankment			7	7	6:1 over pipe. 4:1 everywhere else.				
Sideslope (__:1)	4.0								
(Height of Cover(m) : 1.1)									
Guardrail (Y/N)	Yes				South rail has 1 section flattened but functional.				
<b>Approach Road / Embankment General Rating</b>			<b>5</b>	<b>5</b>					
Upstream End									
<b>Culvert Component</b>			Last	Now	Explanation of Condition				
Direction			N						
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall			X	X					

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2134, Type: MP)				
Barrel Last Accessible Date	24-Aug-2011			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Could not measure rise because of fill on base. Assume sag is same as deflection.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	2220			
Measured At Ring No.	3			
Deflection (mm)	86			
Percent Deflection	4			
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	70			
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2134, Type: MP)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
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		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape : )		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		5	5	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	Soft fill & manure.
Roadway Surface (Type : )		6	6	
Icing (Y/N)	No			
Traffic Safety Features Type		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</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>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>77.6/77.6</b>	Est. Repl. Yr	2029	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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	27-May-2013		Previous Inspection Date	05-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							