

Bridge Culvert Inspection			
Bridge File Number	78566 -1 Bridge Culvert	Form Type	CUL1
Year Built	1986	Lot No.	1
Bridge or Town Name	LUNDBRECK	Inspector Name	Garry Roberts
Located Over	POOLE CREEK, 2.12.48.13, WATERCRS-ST	Inspector Class	BR CLS A
Located On	22:08 C1 23.242	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	05-Jun-2012
Legal Land Location	SW SEC 18 TWP 12 RGE 1 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-114:08:07, 49:59:35	Data Entry Date	27-Jun-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA27	Review Date	18-Jun-2012
Clear Roadway/Skew	11.9 /	Dept. Reviewer Name	Tim Davies
AADT/Year	1,980 / 2011 (A)	Dept. Review Date	29-Jun-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	60		

**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	64	125X26	3.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	East ditch.	Gas	
Power	1 line - West ditch 20m from c/l.	Municipal	
Others	Fibre optics @ East r/w.	Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	5	5	Curve @ South.
Vertical Alignment	6	6	
Roadway Width (m)	11.900		
Embankment	7	7	
Sideslope ( __:1)	3.0		
(Height of Cover(m) : 5.5)			
Guardrail (Y/N)	Yes		East side only.
<b>Approach Road / Embankment General Rating</b>	<b>5</b>	<b>5</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	E		East.
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	7	7	
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed				100% of flow currently going under bevel. Re-enters pipe at Ring 1.
Above/Below (mm)	0			
Scour Protection		3	3	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		3	3	5x1x1 m deep erosion over bevel.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>3</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): 1800, Type: MP)				
Barrel Last Accessible Date	05-Jun-2012			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Inward.
Measured Rise (mm)	1785			
Measured At Ring No.	6			
Sag (mm)	15			
Percent Sag	2			
Sidewall		3	3	Corrosion holes and staining North side wall at Rings 5-6 over 3m length.
Measured Span (mm)	1750			
Measured At Ring No.	5			
Deflection (mm)	50			
Percent Deflection	2			
Floor		4	4	Corrosion Holes @ Rings 5 and 6 over 3m length of North floor haunch.
Bulge (mm)	0			
Measured At Ring No.	6			
Abrasion (Y/N)	No			
Circumferential Seams		5	5	@ 1st seam @ D/S.
Separation (mm)	280			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		3	3	Up to 200mm dia holes @ floor and @ North side wall at rings 5-6. Corrosion also @ other Seams.
Corrosion By Soil (Y/N)	Yes			
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		5	4	
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	(Ice 1.1m deep @ U/S end.) 2000/01/06
Icing (Y/N)	Yes			Approx 350 mm silt in D/S last 2 rings.
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>3</b>	<b>3</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		West.
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)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
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)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/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	2012	Approx. 10m3 Cl. 1 at D/S.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	2012	Install liner in Rings 5-6.					
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF	2012	Cutoff wall at U/S end.					
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.9/41.7</b>	Est. Repl. Yr	2018	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	05-Mar-2014		Previous Inspection Date	07-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							