

Bridge Culvert Inspection			
Bridge File Number	71157 -1 Bridge Culvert	Form Type	CUL1
Year Built	1993	Lot No.	4
Bridge or Town Name	SADDLE LAKE	Inspector Name	Kris Bosters
Located Over	SADDLELAKE CREEK, 6.29, WATERCRS-ST	Inspector Class	BR CLS A
Located On	652:02 C1 30.304	Assistant Name	Brian Cote
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-Dec-2012
Legal Land Location	NE SEC 34 TWP 57 RGE 12 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-111:41:21, 53:58:32	Data Entry Date	15-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA08	Review Date	19-Dec-2012
Clear Roadway/Skew	10 / 0 deg.	Dept. Reviewer Name	Paul Catt
AADT/Year	1,500 / 2011 (A)	Dept. Review Date	18-Jan-2013
Road Classification	RCU-209-110	Follow-Up By	
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	-	4300	SP	75.6	152X51	4.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	Ploughed along South ditch.	Gas	Crossing 150m East.
Power		Municipal	
Others	Fibre optic cable crossing 150m East and 50m East.	Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	No passing either direction. Intersection 300m West. Horizontal curve 500m East. Grade to West, limited sight distance.
Vertical Alignment		6	6	
Roadway Width (m)	10.000			
Embankment		7	7	Ditch scour protection works at NE, NW & SW ditches. Wide transverse crack 5m West of culvert c/l.
Sideslope ( __:1)	3.0			
(Height of Cover(m) : 8)				
Guardrail (Y/N)	Yes			255m of guardrail along each side of the road.
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		Covered by snow
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	N	
Collar		7	N	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	N	No notable scars
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	Carried over.
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>4300</b> , Type: <b>SP</b> )				
Barrel Last Accessible Date	11-Dec-2012			(Measured 4277 ring 9.)
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	7	(4278 x 4252. 94/09/20)
Measured Rise (mm)				Could not measure due to ice, ice approx. 2.1m thick.
Measured At Ring No.				
Sag (mm)	48			
Percent Sag				
Sidewall		N	7	
Measured Span (mm)	4270			
Measured At Ring No.	15			
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	Not visible.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	Visible portion rated.
Separation (mm)	0			
Longitudinal Seams		N	7	Visible seams are very good.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				2N
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	5	Soil side seeping through roof bolts and superficial corrosion at waterline.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP)				
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type : )				
Waterway Adequacy		8	8	(Iced to within 1.4m of crown @ inlet. 94/09/20)
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>7</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		Snow covered.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		7	N	Covered by ice and snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	Carried over
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)				HWM not 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							
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>55.6/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>67.6/78.6</b>	Est. Repl. Yr	2043	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	11-Mar-2016		Previous Inspection Date	02-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							