

Bridge Culvert Inspection				
Bridge File Number	75986 -2 Bridge Culvert		Form Type	CUL1
Year Built	2002		Lot No.	4
Bridge or Town Name	MORINVILLE		Inspector Name	Kris Bosters
Located Over	TRIBUTARY TO STURGEON RIVER, 6.65.6, WATERCRS-ST		Inspector Class	BR CLS A
Located On	LOCAL ROAD		Assistant Name	Brian Cote
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	24-Apr-2013
Legal Land Location	SW SEC 15 TWP 55 RGE 25 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:38:40, 53:44:43		Data Entry Date	30-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA09		Review Date	29-Apr-2013
Clear Roadway/Skew	8 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	60 / 2008 (E)		Dept. Review Date	01-May-2013
Road Classification	RLU-208G-90		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	-	1950	CP	38.6			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	North r/w.			Gas	South r/w.		
Power	2 wires OH North r/w.			Municipal			
Others	Fibre optic South r/w.			Problem (Y/N)	No		
Remarks	File tag U/S end.						

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrance to Hwy 2, 20m West.
Vertical Alignment		8	8	
Roadway Width (m)	8.000			
Embankment		8	8	
Sideslope (___:1)	5.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			Guardrail along Hwy 2 N/B.
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 450)		8	N	Water too deep to see
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	GR carried fwd from 09-May-2008
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1950, Type: CP)				
Barrel Last Accessible Date	09-May-2008			Design span & rise appear to be 1950mm.-09-May-2008 Barrel viewed from ends, shape looks good.
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		N	N	(Rise 1950, 0%. 14/May/2004) Water level 1.3m to crown D/S. Silt on floor. Rings 9 & 13, joint patched.-09-May-2008
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	(Span 1950, 0%. 14/May/2004) U/S - 1951, D/S - 1965. Average U/S & D/S - 1958.-09-May-2008
Measured Span (mm)	1978			
Measured At Ring No.	6			
Deflection (mm)	26			
Percent Deflection	1			
Floor		N	N	Silted over.-09-May-2008
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	N	
Separation (mm)	0			
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): 1950, Type: CP)				
Coating		X	X	Minor corrosion stain on ring 1.-09-May-2008
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	Last rated 8 on May 9, 2008
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		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1150			
Scour Protection		8	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	Carried fwd from 08-May-2009
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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							
Structural Condition Rating (Last/Now) (%)	88.9/55.6	Sufficiency Rating (Last/Now) (%)	88.8/73.8	Est. Repl. Yr	2074	Maint. Req'd. (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	Jacob Oresile		Previous Assistant's Name				
Next Inspection Date	24-Jan-2018		Previous Inspection Date	09-May-2008			
Inspection Cycle (Default) (months)	57						
Comment							