

Bridge Culvert Inspection				
Bridge File Number	75985 -2 Bridge Culvert		Form Type	CUL1
Year Built	2002		Lot No.	1
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 22 TWP 55 RGE 25 W4M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-113:38:40, 53:45:36		Data Entry Date	02-May-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	
AADT/Year	10 / 2008 (E)		Dept. Review Date	
Road Classification	RLU-208G-90		Follow-Up By	
Detour Length (km)	999			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1800	CP	36			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	East r/w.		Gas
Power	2 wires OH 20m East and South.		Municipal
Others	Fibre optic East r/w.		Problem (Y/N) No
Remarks	File tag North.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Service road off of Hwy 2.
Vertical Alignment		8	8	
Roadway Width (m)	8.000			
Embankment		9	9	
Sideslope (___:1)	4.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			Guardrail along Hwy 2 NB.
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	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		8	N	Water to 0.2m from crown
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	Carried forward from May/2008
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1800 , Type: CP)				
Barrel Last Accessible Date	14-May-2004			Water too deep to access.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	(Rise 1950, 0%. 14/May/2004) (Deep silt approx 450m restrains movement. Viewed from ends. No sag. Shape looks good. May/2008)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Span 1950, 0%. 14/May/2004) (Appears to have a slight misalignment at ring 4 as viewed from U/S end. U/S - 1975. - May/2008)
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	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)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: CP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		9	9	
Baffle		N	N	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "9" on 14/May/2004.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		Water to crown
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)	500			
Scour Protection		8	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	Carried forward from May/2008
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		9	9	
HWM (m below Top of Culvert)	0.2			Spring 2013
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		9	9	

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	2013	Dewater, Level II					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	76.5/76.5	Est. Repl. Yr	2074	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	As this structure has not been accessed for 2 or more cycles, a Level 2 inspection is required as per BIM Manual Section 13.9.1.5. Based on observed site evaluations we are recommending that this be deferred to a later date.		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							