

Bridge Culvert Inspection			
Bridge File Number	80976 -1 Bridge Culvert	Form Type	CUL1
Year Built	1976	Lot No.	4
Bridge or Town Name	NEW FISH CK	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO CLOUSTON CREEK, 8.1.44.7.7.6, WATERCRS-ST	Inspector Class	BR CLS A
Located On	49:12 C1 22.023	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	BR CLS B
Navigabil. Cl./Year		Inspection Date	14-Dec-2012
Legal Land Location	NE SEC 31 TWP 72 RGE 21 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:12:41, 55:16:51	Data Entry Date	12-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA03	Review Date	09-Jan-2013
Clear Roadway/Skew	12.3 /	Dept. Reviewer Name	David Morrison
AADT/Year	1,870 / 2011 (A)	Dept. Review Date	21-Mar-2013
Road Classification	RAU-213.4-120	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	-	2100	MP	36.5	68X13	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Buried East r/w.	Gas	
Power	5 wire OH & 4 wire OH West r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	
Vertical Alignment	9	9	
Roadway Width (m)	12.300		
Embankment	8	8	6:1 on east side.
Sideslope (__:1)	4.0		
(Height of Cover(m) : 0.5)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	9	9	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	Snow covered.
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 200)		N	N	Overgrown. Snow covered.
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	GR carried over-05-May-2009
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2100 , Type: MP)				
Barrel Last Accessible Date	14-Dec-2012			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		5	5	Minor dents in the roof from point loads near ends. Slice & indent in roof 3m from d/s end. Fill visible. 350mm Dep x 400mm Long first seam.
Measured Rise (mm)	1980			
Measured At Ring No.	1			
Sag (mm)	120			
Percent Sag	6			
Sidewall		5	5	Measured @ Section 1
Measured Span (mm)	2214			
Measured At Ring No.	1			
Deflection (mm)	114			
Percent Deflection	5			
Floor		N	4	Perforation @ first seam. @ c/l
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	3	1st circumferential seam poorly nested and coupler rusted through, infiltration @ seam 2.
Separation (mm)	95			
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		4	4	Deep pitting , scaling rust & perforation on floor. 5:00 to 7:00
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
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): 2100, Type: MP)					
Fish Passage Adequacy		X	3	Drop structure (1.4 m) at outlet is impossible for fish passage.	
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	7		
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		5	5		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		W		A stilling basin of sheet piling at d/s end. 6.6 m long, 3.5 m wide, drop to steam bottom is 2.3 m.	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		7	7		
Collar		X	X		
Wingwalls		5	5		
(Shape :)					
Cutoff Wall		N	N		
Bevel End		X	X		
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	2300				
Scour Protection		5	5	Disturbed slopes @ sides of wingwalls.	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		5	5		
Beavers (Y/N)	No				
Downstream End General Rating		5	5		
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)	1.0			Grass in fence.-10-Feb-2011	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading				Stable.	
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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	59.7/52.2	Est. Repl. Yr	2017	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor seam separation and slice in roof. Monitor corrosion.		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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	14-Sep-2014		Previous Inspection Date	10-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							