

Bridge Culvert Inspection			
Bridge File Number	77806 -1 Bridge Culvert	Form Type	CUL1
Year Built	1974	Lot No.	2
Bridge or Town Name	WORSLEY	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO CLEAR RIVER, 8.10.93.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	64:02 C1 30.151	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	03-Nov-2011
Legal Land Location	SW SEC 6 TWP 85 RGE 10 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:34:27, 56:20:21	Data Entry Date	12-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	12-Dec-2011
Clear Roadway/Skew	10.2 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	420 / 2010 (A)	Dept. Review Date	11-Jan-2012
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	70		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2019	2226	SPE	45.7	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	Burried NE side.	Gas		
Power	1 line across highway	Municipal		
Others		Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approaches 150 m E & W
Vertical Alignment		8	8	
Roadway Width (m)	10.200			
Embankment		3	3	Slump 4m from road, approx (8mx4m)-photo
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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		6	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	6	
(Type : CONCRETE)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2019, Rise (mm): 2226, Type: SPE)				
Barrel Last Accessible Date	23-Feb-2010			Only able to access to ring 3 due to high water
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	(Ring 3 measurements 2227-April 29, 2008)
Measured Rise (mm)	2239			Floor covered with ice & water.
Measured At Ring No.	3			
Sag (mm)	13			
Percent Sag	1			
Sidewall		5	5	
Measured Span (mm)	2026			
Measured At Ring No.	3			
Deflection (mm)	7			
Percent Deflection				
Floor		N	N	Floor covered with ice. Rusting where visible(not severe)
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	6	
Separation (mm)	0			
Longitudinal Seams		5	6	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Scaling & Pitting rust on floor Alkali deposits on pipe. Ring 3 measurements 2059
Corrosion By Soil (Y/N)	Yes			Heavy rust in bolts.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			Approx 600mm sag

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2019, Rise (mm): 2226, Type: SPE)				
Ponding (Y/N)	Yes			
Fish Passage Adequacy		7	6	
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		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	~450mm water
Heaving (mm)	50			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	4	Scour protection nearly overgrown
(Type : CONCRETE)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		4	4	Bank sloughed on W side 3m wide, 6m long.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp entrance.
Bank Stability		4	4	Bank erosion d/s. 8m scour hole at fence 3mX5m
HWM (m below Top of Culvert)				HWM Not visible.
Drift (Y/N)	Yes			Drift caught in fence d/s end.
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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	2012	fix embankments-(29-April-2008)					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	56.9/58.0	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor erosion at NW-29-Apr-2008 and slough at SE. Monitor deflections. 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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	03-Aug-2013		Previous Inspection Date	23-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							