

Bridge Culvert Inspection			
Bridge File Number	77444 -2 Bridge Culvert	Form Type	CUL1
Year Built	2003	Lot No.	2
Bridge or Town Name	WINTERBURN	Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO ATIM CREEK, 6.65.8.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	44:00 C1 2.381	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	16-Apr-2013
Legal Land Location	SW SEC 20 TWP 53 RGE 26 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:48:46, 53:35:20	Data Entry Date	30-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA11	Review Date	29-Apr-2013
Clear Roadway/Skew	12.2 / 30 deg. (RHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	7,140 / 2012 (A)	Dept. Review Date	01-May-2013
Road Classification	RAU-211.8-110	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	-	2400	MP	39	125X26	2.8	ROUND
Special Features								
Special Features Comment		BF tag has been torn off.						

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.	Gas	25 m north.
Power	1 wire East r/w, crosses Hwy 44 10m North.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Access roads North & South. Curves to West 300m North. No passing both directions.
Vertical Alignment		9	9	
Roadway Width (m)	12.200			
Embankment		9	8	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 0.8)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
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		8	8	Lower 1/2 not viewed/rated
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2400 , Type: MP)				
Barrel Last Accessible Date	30-Sep-2009			WL 1.6m deep could not enter barrel.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	Viewed from ends, looks good. At c/l.
Measured Rise (mm)	2441			
Measured At Ring No.				Upward.
Sag (mm)	41			
Percent Sag				
Sidewall		8	N	At c/l.
Measured Span (mm)	2365			
Measured At Ring No.				Inward.
Deflection (mm)	35			
Percent Deflection	1			
Floor		N	N	Covered in silt.-July-2011
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	10			
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		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
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): 2400, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle (Type :)		N	N	
Waterway Adequacy		6	6	0.6m silt.-July-2011
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	GR was 8 from Sept-2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		8	8	Lower 1/2 not viewed/rated
Heaving (mm)	0			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)		600		
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)		Yes		Recent removals, debris on slopes.
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 degree bend U/S.
Bank Stability		7	7	
HWM (m below Top of Culvert)		0.8		Water level, April-2013
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	Remove debris pile from r/w.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	59.5/59.5	Est. Repl. Yr	2056	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	As this structure has not been accessed for 2 or more cycles, a LLevel 2 inspection is required as per Bim Manual Section 13.9.1.5. Based on observed site evaluations we are recommending that 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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	16-Jan-2015		Previous Inspection Date	06-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							