

Bridge Culvert Inspection				
Bridge File Number	70071 -1 Bridge Culvert		Form Type	CUL1
Year Built	1960		Lot No.	1
Bridge or Town Name	THORSBY		Inspector Name	Todd Warshawski
Located Over	WEED CREEK, 6.110, WATERCRS-ST		Inspector Class	BR CLS B
Located On	778:02 C1 10.329		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	16-Mar-2012
Legal Land Location	SW SEC 26 TWP 48 RGE 1 W5M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-114:03:02, 53:10:08		Data Entry Date	19-Apr-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA11		Review Date	09-Apr-2012
Clear Roadway/Skew	11 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	1,380 / 2011 (A)		Dept. Review Date	04-May-2012
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3000	SP	40.2	152X51	3.5,4.3	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power	2 wires 23m east of c/l, also crosses road 40m south.		Municipal
Others			Problem (Y/N) No
Remarks	BF tag on east bevel.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm entrances both directions.
Vertical Alignment		8	8	
Roadway Width (m)	9.400			
Embankment		N	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		N	X	
Collar		N	4	(Separated at construction joint. Settlement of outer sections)
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	(Void under SE concrete collar, 0.3 m x 0.3m - photo. 22/Sept/2005) Lower portion under snow/ice
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	
Beavers (Y/N)	Yes			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 3000 , Type: SP)				
Barrel Last Accessible Date	16-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	(Rise @ R6 - 3030, 30mm, 1%. At R9 - 3029, 29mm, 1%.) - Dec/08 Sag estimated at less than 5%
Measured Rise (mm)	3040			
Measured At Ring No.	5			
Sag (mm)	40			
Percent Sag	1			
Sidewall		4	3	Cracked seams @ rings 2,5 and 8 missing bolts.
Measured Span (mm)	3075			
Measured At Ring No.	5			
Deflection (mm)	75			
Percent Deflection	3			
Floor		6	N	(Silt buildup in isolated areas.) - Dec/08
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	6	
Separation (mm)	0			
Longitudinal Seams		4	3	Bolts missing in various locations. Ring 2,5 and 8 cracked,
Total No. of Cracked Rings	3			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	90			
Proper Lap (Y/N)	No			1N
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Floor & lower sidewall superficial rust, some pitting.
Corrosion By Soil (Y/N)	Yes			
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): 3000, Type: SP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	3	
Downstream 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	
Bevel End		N	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	500			
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			(Scour under bevel 1m back.
Downstream End General Rating		4	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	U/S 45 degree bend 10m U/S.
Bank Stability		N	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			D/S only
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	53.8/50.8	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor cracked seams		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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	16-Jun-2015		Previous Inspection Date	23-Dec-2008			
Inspection Cycle (Default) (months)	39						
Comment							