

Bridge Culvert Inspection				
Bridge File Number	08684 -1 Bridge Culvert		Form Type	CUL1
Year Built	1968		Lot No.	2
Bridge or Town Name	VIMY		Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO REDWATER RIVER, 6.63.12, WATERCRS-ST		Inspector Class	BR CLS B
Located On	2:36 C1 43.757		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Mar-2013
Legal Land Location	SW SEC 15 TWP 59 RGE 25 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:40:32, 54:05:56		Data Entry Date	17-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10		Review Date	03-Apr-2013
Clear Roadway/Skew	12.7 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	5,180 / 2012 (A)		Dept. Review Date	23-Apr-2013
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	22			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	3480	2210	RPP	26.2	152X51	2.8	PIPE ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	East r/w.		Gas	
Power	East ROW - 2 wire OH		Municipal	
Others	Fiber optic East r/w.		Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Residence access at northeast.
Vertical Alignment		8	8	
Roadway Width (m)	12.700			
Embankment		8	8	
Sideslope (__:1)	6.0			
(Height of Cover(m) : 0.8)				
Guardrail (Y/N)	Yes			4 broken post on W rail. 2 broken posts on East rail. Improper lap on NE TDE.
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		5	5	Lower 1/3 floor not rated.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		6	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3480, Rise (mm): 2210, Type: RPP)				
Barrel Last Accessible Date	29-Mar-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	4	Ends of barrel damaged with tears from mowers.
Measured Rise (mm)	2113			
Measured At Ring No.	4			200mm hole in R2, 150mm hole in R6.
Sag (mm)	97			Rise not measured due to ice.
Percent Sag	4			
Sidewall		6	6	
Measured Span (mm)	3501			
Measured At Ring No.	4			
Deflection (mm)	21			
Percent Deflection	1			
Floor		6	N	Water/ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Lower seams not viewed/rated.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Pitting rust lower 1/3. Visible above ice.
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): 3480, Rise (mm): 2210, Type: RPP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	4	
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		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	Lower 1/3 floor not rated.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		5	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 deg. bend at upstream end.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
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		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	Replace broken guardrail posts.(6)					
OTHER ACTION	2013	Relap NE TDE.					
OTHER ACTION	2013	Trim/patch holes/tears in roof.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/44.4	Sufficiency Rating (Last/Now) (%)	62.5/51.1	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor corrosion of barrel.		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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	29-Dec-2014		Previous Inspection Date	28-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							