

Bridge Culvert Inspection			
Bridge File Number	73446 -1 Bridge Culvert	Form Type	CUL1
Year Built	1960	Lot No.	4
Bridge or Town Name	HIGH LEVEL	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO MEANDER RIVER, 9.16.9, WATERCRS-ST	Inspector Class	BR CLS A
Located On	35:16 C1 24.050	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Jan-2012
Legal Land Location	NE SEC 11 TWP 112 RGE 20 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:14:33, 58:43:05	Data Entry Date	04-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA01	Review Date	26-Feb-2012
Clear Roadway/Skew	9.8 / -30 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	1,150 / 2011 (A)	Dept. Review Date	30-Mar-2012
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	999		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1829	SP	39	152X51	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	W R/W	Gas	
Power	West r/w - single line	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On gradual curve - passing permitted.
Vertical Alignment		7	7	IN SLIGHT SAG
Roadway Width (m)	9.800			
Embankment		4	N	Minor gully 0.3m deep x4m long on North East ditch.-27-May-2010
Sideslope (__:1)	4.0			Snow covered
(Height of Cover(m) : 1.7)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		4	7	

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		5	N	End damaged when reoving beaverdam. Bevel undermined by 100mm-water flowing under bevel.-27-May-2010 Snow covered
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		4	N	Sloughing banks around side of bevel. Erosion starting on sides of bevel. Scour hole 600mm-1.5m from bevel.-27-May-2010 Snow covered
(Type : NONE) (Avg. Rock Size(mm) :)				
Scour/Erosion		4	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried forward from 27-May-2010
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)				
Barrel Last Accessible Date	09-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	Deflection upward-27-May-2010
Measured Rise (mm)	1870			
Measured At Ring No.	8			
Sag (mm)	41			
Percent Sag	2			
Sidewall		6	6	Deflection inward.
Measured Span (mm)	1735			
Measured At Ring No.	8			
Deflection (mm)	94			
Percent Deflection	5			
Floor		N	N	Under ice, 1.057m crown to ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		6	6	1N
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)	Yes			
Coating		4	4	Pitting rust on lower 1/2.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		X	5	
Baffle		5	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		Snow covered.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	N	Pitted rust on base.-27-May-2010
Heaving (mm)	50			Snow covered
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		4	N	Erosion starting along N. end side of W bevel.-27-May-2010
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Rating		4	4	GR carried fwd from 27-May-2010
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Channel parallels hwy. on u/s end. Smooth bend into pipe.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			Beaverdam 50m d/s of culvert.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	51.9/62.2	Est. Repl. Yr	2015	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor erosion to North side and South side of d/s bevel.-27-May-2010		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	09-Oct-2013		Previous Inspection Date	27-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							