

Bridge Culvert Inspection			
Bridge File Number	13343 -1 Bridge Culvert	Form Type	CULM
Year Built	1988	Lot No.	
Bridge or Town Name	VALHALLA CEN	Inspector Name	Eric Carcoux
Located Over	TRIBUTARY TO BEAR RIVER, 8.10.58.18.2.17, WATERCRS-ST	Inspector Class	BR CLS A
Located On	59:02 C1 17.793	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	29-Apr-2013
Legal Land Location	SE SEC 15 TWP 74 RGE 10 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:26:27, 55:24:12	Data Entry Date	29-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	
Contract Main. Area	CMA05	Review Date	
Clear Roadway/Skew	9.9 / 0 deg.	Dept. Reviewer Name	
AADT/Year	680 / 2012 (A)	Dept. Review Date	
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	13		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1400	MP	27	68X13	2.8	ROUND
2	MAIN	-	1400	MP	27	68X13	2.8	ROUND
Special Features	VERT STEEL STRUTS							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7		
Vertical Alignment	8		
Roadway Width (m)			
Embankment	7		
Sideslope (__:1)			
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)			
Approach Road / Embankment General Rating	7		

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	S		
End Treatment (Concrete, Steel, Others, None)			
Headwall	X		
Collar	X		
Wingwalls	X		
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall		X		
Bevel End		6		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		6		
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7		
Beavers (Y/N)				
Upstream End General Rating		6		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date				
Special Features				
Special Feature		N		
(Type : VERT STEEL STRUTS)				
Special Feature				
(Type :)				
Roof		N		
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N		
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N		
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N		
Separation (mm)				
Longitudinal Seams		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		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		7		
Baffle		X		
(Type :)				
Waterway Adequacy		6		
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating		3		

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		N		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		X		
(Shape :)				
Cutoff Wall		X		
Bevel End		5		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		6		
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6		
Beavers (Y/N)				
Downstream End General Rating		5		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		N		
(Shape :)				
Cutoff Wall		X		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End		7		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		6		
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7		
Beavers (Y/N)				
Upstream End General Rating		6		
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date				
Special Features				
Special Feature		N		
(Type : VERT STEEL STRUTS)				
Special Feature				
(Type :)				
Roof		N		
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N		
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N		
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N		
Separation (mm)				
Longitudinal Seams		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		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP)				
Ponding (Y/N)				
Fish Passage Adequacy		7		
Baffle		X		
(Type :)				
Waterway Adequacy		4		
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating		4		
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		N		
End Treatment (Concrete, Steel, Others, None)				
Headwall		N		
Collar		N		
Wingwalls		X		
(Shape :)				
Cutoff Wall		X		
Bevel End		7		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		4		
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4		
Beavers (Y/N)				
Downstream End General Rating		4		
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5		
Bank Stability		7		
HWM (m below Top of Culvert)				
Drift (Y/N)				
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)				
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		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) (%)	33.3/	Sufficiency Rating (Last/Now) (%)	41.2/	Est. Repl. Yr		Maint. Req. (Y/N)
Special Comments for Next Inspection			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	Brian Cote		
Next Inspection Date	29-Jan-2015		Previous Inspection Date	05-Jul-2011		
Inspection Cycle (Default) (months)	21					
Comment						