

Bridge Culvert Inspection				
Bridge File Number	73855 -1 Bridge Culvert		Form Type	CUL1
Year Built	1999		Lot No.	2
Bridge or Town Name	VALLEYVIEW		Inspector Name	Russel Vanderschaaf
Located Over	MOOSE CK, 8.10.58.7.29.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	43:08 L1 20.657;43:08 R1 20.652		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	03-Dec-2012
Legal Land Location	NW SEC 10 TWP 68 RGE 22 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:16:20, 54:52:39		Data Entry Date	20-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA03		Review Date	09-Jan-2013
Clear Roadway/Skew	27.7 /		Dept. Reviewer Name	David Morrison
AADT/Year	6,130 / 2011 (A)		Dept. Review Date	19-Mar-2013
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	6485	5600	RPA	75	152X51	5.0	ARCH
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	3 wire o/h East r/w.		Municipal
Others			Problem (Y/N) No
Remarks	Sign "Grove Creek"		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	South of curve. TP RD 200m N.
Vertical Alignment		8	8	
Roadway Width (m)	27.700			SB lane 13.5, NB lane 14.2
Embankment		7	7	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	Yes			Improper lap on median NBL @ N end 1 post, terminal & 1 section damaged SW corner.-06-May-2009 Snow covered.
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	Snow covered.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		8	8	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	Snow covered.
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): 6485, Rise (mm): 5600, Type: RPA)				
Barrel Last Accessible Date	08-Mar-2011			Couldn't access due to ice condition/water level. Look good s viewed from ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Could not measure due to silt/ice. Estimated.
Measured Rise (mm)				Upward
Measured At Ring No.				
Sag (mm)	96			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	6374			Inward
Measured At Ring No.	9			
Deflection (mm)	111			
Percent Deflection	2			
Floor		N	N	Bottom of barrel silted in and ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	Heavy rusting of bolts at seam 12/13.
Separation (mm)	0			
Longitudinal Seams		8	6	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				Continous seam at 2 & 10 o'clock
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6485, Rise (mm): 5600, Type: RPA)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type :)				
Waterway Adequacy		8	8	1.5m deep vegetated, gravel/silt through.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		8	8	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)	No			
(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	2013	Replace damaged guardrail and correct improper lap.-carried over -06-May-2009					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	81.1/81.1	Est. Repl. Yr	2051	Maint. Req. (Y/N)	Yes
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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	03-Sep-2014		Previous Inspection Date	08-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							