

Bridge Culvert Inspection			
Bridge File Number	73856 -1 Bridge Culvert	Form Type	CUL1
Year Built	1994	Lot No.	4
Bridge or Town Name	VALLEYVIEW	Inspector Name	Russel Vanderschaaf
Located Over	HUGGARD CK, 8.10.58.7.27, WATERCRS-ST	Inspector Class	BR CLS B
Located On	43:08 R1 10.874;43:08 L1 10.878	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	03-Dec-2012
Legal Land Location	NE SEC 9 TWP 69 RGE 22 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:16:53, 54:57:50	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	26.9 / -6 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	6,130 / 2011 (A)	Dept. Review Date	21-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	-	4920	SP	109.1	152X51	5.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	west r/w bdy	Gas		
Power	E. r/w, 3 wire: W. r/w, 3 wire	Municipal		
Others		Problem (Y/N)	No	
Remarks	Sign "Toms Creek"			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Twp rd 691A 500m S and twp rd 692 300m N
Vertical Alignment		8	8	In sag curve. SB Lane 13.5, NB lane 13.4
Roadway Width (m)	26.900			
Embankment		5	5	3:1 west side, 6:1 east side.
Sideslope (__:1)	3.0			Concrete on gabions @ SW cracking
(Height of Cover(m) : 15)				Concrete swale on SW side of culvert.-06-May-2009
				Snow covered.
Guardrail (Y/N)	Yes			W side only.
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**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
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	3 logs 0.37m - 0.4m dia. over bevel.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	N	Snow covered.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4920, Type: SP)				
Barrel Last Accessible Date	03-Dec-2012			Ice 3.65m from crown.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Estimated - due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	221			
Percent Sag	5			
Sidewall		7	7	
Measured Span (mm)	5165			
Measured At Ring No.	22			
Deflection (mm)	245			
Percent Deflection	5			
Floor		N	N	Silt/ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		8	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				2N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Minor superficial rust on lower 1/3. Corrosion and efflorescence at plates under clay seal u/s. Rusting at R31 at 2:00.
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): 4920, Type: SP)				
Fish Passage Adequacy		8	8	
Baffle		N	N	Silt/ice covered
(Type : SPOILER)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			3 logs
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		N	N	Wide horizontal cracks on both shoulders.-06-May-2009 Snow covered.
Wingwalls (Shape : )		X	X	
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		N	N	
Scour/Erosion		N	N	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>6</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		5	5	Steep sloughing banks d/s.
HWM (m below Top of Culvert)	1.8			Drift over u/s bevel.-03-Dec-2012
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>5</b>	<b>7</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>78.4/81.8</b>	Est. Repl. Yr	2044	Maint. Req. (Y/N)	No
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							