

Bridge Culvert Inspection				
Bridge File Number	73991 -1 Bridge Culvert		Form Type	CUL1
Year Built	1987		Lot No.	4
Bridge or Town Name	WORSLEY		Inspector Name	Russel Vanderschaaf
Located Over	EUREKA RIVER, 8.10.93.4, WATERCRS-ST		Inspector Class	BR CLS B
Located On	726:02 C1 9.946		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Aug-2012
Legal Land Location	SE SEC 14 TWP 86 RGE 8 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:08:06, 56:27:11		Data Entry Date	24-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	23-Sep-2012
Clear Roadway/Skew	10 / -40 deg. (LHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	500 / 2011 (A)		Dept. Review Date	04-Jan-2013
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	6			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	9800	6000	AP	108			ARCH
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	15 M EAST R/W			Gas			
Power	20 M WEST R/W - 1 wire			Municipal			
Others	WSC east side.			Problem (Y/N)		No	
Remarks	Stream guaging station East of u/s opening.						

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	CURVES NORTH & SOUTH HILL EACH SIDE, NORTH & SOUTH
Vertical Alignment		5	5	
Roadway Width (m)	10.000			MINOR EROSION SW DITCH 70m N patch in road/slumping slow to 25km/hr.-under construction, detour currently in place.
Embankment		5	5	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	Yes			Guardrail west side only.
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls (Shape : )		6	6	Chipped edges on S. wingwall. Narrow vertical cracking on both wingwalls.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>6</b>	<b>6</b>	

**Bridge Culvert Barrel**

Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 9800, Rise (mm): 6000, Type: AP)</b>				
Barrel Last Accessible Date	07-Mar-2006			Unable to access due to high water, viewed from ends - appeared good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	Unable to measure rise due to ice on floor.Mar 17, 2006
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	Medium width cracks with rust staining on N. wall, u/s end.Mar 07, 2006
Measured Span (mm)	9704			
Measured At Ring No.	4			
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		X	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		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 9800, Rise (mm): 6000, Type: AP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>N</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		6	6	Narrow/medium vertical cracks on both wingwalls.
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	6	Grass debris in willow bush NW D/S.
Bank Stability		4	9	SW & NE BANK SLUFFING. Banks under construction.
HWM (m below Top of Culvert)	1.2			Debris in rocks.
Drift (Y/N)	Yes			
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>4</b>	<b>4</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>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>66.0/66.1</b>	Est. Repl. Yr	2053	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor erosion along banks. Construction underway-26-Aug-2012		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	Jordan Evans			
Next Inspection Date	26-Nov-2015		Previous Inspection Date	07-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							