

Bridge Culvert Inspection			
Bridge File Number	86130 -2 Bridge Culvert	Form Type	CUL1
Year Built	2007	Lot No.	4
Bridge or Town Name	DUNVEGAN	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO PEACE RIVER, 8.10.78, WATERCRS-ST	Inspector Class	BR CLS B
Located On	2:68 C1 11.090	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	10-Nov-2011
Legal Land Location	SW SEC 16 TWP 80 RGE 4 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:33:53, 55:55:51	Data Entry Date	14-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	12-Dec-2011
Clear Roadway/Skew	14.5 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	2,670 / 2010 (A)	Dept. Review Date	09-Jan-2012
Road Classification		Follow-Up By	
Detour Length (km)			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1524	SSP	76.33			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Curve to NOrth at South 100m. and 200m respectively. On dunvegan hill
Vertical Alignment	8	6	
Roadway Width (m)	14.500		
Embankment	6	6	No evident problems through snow.
Sideslope (__:1)	4.0		
(Height of Cover(m) : 6)			
Guardrail (Y/N)	Yes		On South side only.
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction			North Fibreglass Drift control at u/s bevel end.
End Treatment (Concrete, Steel, Others, None)	OTHERS		
Headwall	8	8	
Collar	8	8	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	8	
(Type : RIP RAP, GEOTEXTILE)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	8	No evident problems
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): , Rise (mm): 1524 , Type: SSP)				
Barrel Last Accessible Date	10-Nov-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	@ cl
Measured Rise (mm)	1503			
Measured At Ring No.				
Sag (mm)	21			
Percent Sag	1			
Sidewall		7	7	@ cl
Measured Span (mm)	1506			
Measured At Ring No.				
Deflection (mm)	18			Minor construction bulges at 11 o'clock. Approx 5m and 20m from u/s end.
Percent Deflection	1			Deflection inward.
Floor		7	7	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)				
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		6	7	Superficial corrosion.
Corrosion By Soil (Y/N)	No			
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): 1524, Type: SSP)				
Fish Passage Adequacy		7	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				Fiberglass
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall		8	8	
Collar		8	8	
Wingwalls		X	7	Rock riprap wingwalls
(Shape :)				
Cutoff Wall		N	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		8	7	No evident problems
(Type : RIP RAP, GEOTEXTILE, GABION)				
(Avg. Rock Size(mm) : 1100)				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Downstream End General Rating		8	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	80.5/75.6	Est. Repl. Yr	2052	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	10-Aug-2013		Previous Inspection Date	24-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							