

Bridge Culvert Inspection			
Bridge File Number	79475 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	1
Bridge or Town Name	GRANDE PRAIR	Inspector Name	Russel Vanderschaaf
Located Over	BALD MOUNTAIN CREEK, 8.10.58.18.3.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	40:42 C1 2.968	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	21-Aug-2012
Legal Land Location	NE SEC 7 TWP 68 RGE 5 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:44:31, 54:52:41	Data Entry Date	24-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	23-Sep-2012
Clear Roadway/Skew	11.8 / 10 deg. (RHF)	Dept. Reviewer Name	David Morrison
AADT/Year	2,640 / 2011 (A)	Dept. Review Date	18-Dec-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	300		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	9800	6000	AP	63.5			ARCH
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	7	7	No passing southbound.
Vertical Alignment	6	6	In a sag curve with limited sight distance.
Roadway Width (m)	11.800		
Embankment	7	7	4:1 at bottom of sideslope.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 5.3)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	6	6	SURFACE SCALING N SIDE OF HEADWALL
Collar	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		5	5	Vertical narrow cracks every approx 1.5 m on wingwall. 5 mm vertical crack between wingwall and draw down. Sheet piling at corners as a repair.
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		N	5	
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	

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)				
Barrel Last Accessible Date	24-Nov-2010			Water 1.0m deep
Special Features				
Special Feature (Type :)				Numerous horizontal cracks hairline to 1mm on the NW side in the draw-down inlet area Also in same spot 2-50x50mm pop-outs.
Special Feature (Type :)				
Roof		7	N	EST from ends. Ice on floor. Shape looks good.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		7	N	EST from ends Shape looks good.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	Under water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	N	60mm styroform between joints showing all joints- styroform missing at 4-5 & 5-6-150 gap at joint 5-6.-24-Nov-2010
Separation (mm)	160			
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)				

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)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		4	4	4 DISLODGED & some d/s of structure.
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR was '7' on 24-Nov-2010
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Cracking @ N. end, 5mm wide.
Collar		X	X	
Wingwalls		5	5	Scarring, chipping present. Separated from headwall 10mm on N. end and 30mm on S. end. Spalling present on N wingwall at top.
(Shape :)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Culvert)	3.0			May 26, 2007 In D/S rip rap
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	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	2012	Review need for dissipators & reinstall if required, if not done					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	72.3/60.8	Est. Repl. Yr	2039	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	21-May-2014		Previous Inspection Date	24-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							