

Bridge Culvert Inspection			
Bridge File Number	13062 -1 Bridge Culvert	Form Type	CUL1
Year Built	1969	Lot No.	2
Bridge or Town Name	CAMP CREEK	Inspector Name	Melanie Johnson
Located Over	CAMP CREEK, 8.11.84.12.14, WATERCRS-ST	Inspector Class	BR CLS B
Located On	33:08 C1 20.195	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Aug-2011
Legal Land Location	SW SEC 7 TWP 61 RGE 4 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:35:53, 54:15:29	Data Entry Date	14-Sep-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10	Review Date	07-Sep-2011
Clear Roadway/Skew	10.8 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,460 / 2010 (A)	Dept. Review Date	15-Sep-2011
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	14		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2905	3203	SPE	39	152X51	3.5	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	South r/w.	Gas	Approx 100 m east.				
Power	3 wires North r/w.	Municipal					
Others		Problem (Y/N)	No				
Remarks							

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection to west.
Vertical Alignment	6	6	Crest curve with no passing to west. Limited sight distance.
Roadway Width (m)	10.800		
Embankment	7	7	
Sideslope (:1)	3.0		
(Height of Cover(m) : 2.2)			
Guardrail (Y/N)	Yes		2 posts broken off @ NE corner. Rail dented.
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	4	4	Shoulder slabs both sides settled up to 300 and broken concrete slope connected to pipe couple wide transverse cracks.
Wingwalls (Shape :)	X	X	

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Cutoff Wall		N	N		
Bevel End		7	7		
Heaving (mm)	150				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	400				
Scour Protection		7	7		
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		7	7		
Beavers (Y/N)	Yes			Beaverdam inside bevel.-photo	
Upstream End General Rating		4	4		
Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2905, Rise (mm): 3203, Type: SPE)					
Barrel Last Accessible Date	11-Mar-2008			Water 1.5m deep @ inlet & 1.0m deep at outlet. Barrel viewed from ends shape looks adequate.	
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Roof		N	N		
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)	53			(Roof sag estimated. 11-Mar-08)	
Percent Sag	3				
Sidewall		N	N	(2956 @ R4 = 51mm 2970 @ R10 = 65mm-11-Mar-08)	
Measured Span (mm)	2984				
Measured At Ring No.	6				
Deflection (mm)	79				
Percent Deflection	3				
Floor		N	N	(Ice covered. 4 bolts missing from lower West longitudinal seam.-11-Mar-08)	
Bulge (mm)	0				
Measured At Ring No.					
Abrasion (Y/N)	No				
Circumferential Seams		N	N		
Separation (mm)	0				
Longitudinal Seams		N	N	(At R5 four nuts and bolts missing from lower seam.-11-Mar-08)	
Total No. of Cracked Rings	0				
Total No. of Rings with Two Cracked Seams					
Min. Remaining Steel Between Cracks (mm)				1N	
Proper Lap (Y/N)	No				
Longitudinal Stagger (Y/N)	Yes				
Coating		N	N	Lower 1/3 starting to pit, flake rust. -11-Mar-2008	
Corrosion By Soil (Y/N)	Yes				
Corrosion By Water (Y/N)	Yes				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2905, Rise (mm): 3203, Type: SPE)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			0.3m-05-Nov-2009
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	Beaver debris approx 10m in from U/S end.
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		3	3	GR carried forward.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		4	4	Erosion along sides of bevel N 3mx0.5x.05(lwd). Grassed and stable
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Bend U/S.
Bank Stability		5	5	
HWM (m below Top of Culvert)				
Drift (Y/N)	Yes			Drift on top of inlet
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
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	2011	Remove drift/beaverdam					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2011	Replace guardrail posts (2)					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	44.6/43.0	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Inspect in Winter to check deflection and condition of barrel.		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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	24-May-2013		Previous Inspection Date	05-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							