

Bridge Culvert Inspection			
Bridge File Number	70017 -1 Bridge Culvert	Form Type	CULM
Year Built	1953	Lot No.	2
Bridge or Town Name	TEEPEE CREEK	Inspector Name	Russel Vanderschaaf
Located Over	2ND ORDER TRIBUTARY TO KLESKUN CREEK, 8.10.58.13.4.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	674:02 C1 17.935	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	03-May-2010
Legal Land Location	SW SEC 1 TWP 74 RGE 4 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:29:11, 55:22:27	Data Entry Date	21-Jun-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05	Review Date	07-Jun-2010
Clear Roadway/Skew	9 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	900 / 2009 (A)	Dept. Review Date	10-Sep-2010
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	12		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1829	SP	32.1	152X51	3.5	ROUND
2	MAIN	-	1829	SP	32.1	152X51	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	S. r/w	Gas	50 M EAST
Power	16 M NORTH OF C/L 3 WIRE	Municipal	
Others	16 M SOUTH OF C/L 2 WIRE	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	50 m East south side - farm entrance. RGE R 41 50m West
Vertical Alignment	8	8	
Roadway Width (m)	9.000		
Embankment	8	8	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 2.2)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	N		West culvert
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall		X	X	
Bevel End		7	N	Covered by beaverdam and water.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	Covered by beaver dam and water.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	Yes			Beaverdam at inlet.
Upstream End General Rating		7	7	GR carried forward.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)				
Barrel Last Accessible Date	01-Feb-2007			Beaverdams directly u/s and 15m d/s of outlet causing 0.9m of water to sit in pipe.
Special Features				
Special Feature				Could not access barrel
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	
Measured Rise (mm)	1780			
Measured At Ring No.				
Sag (mm)	49			
Percent Sag	3			
Sidewall		7	N	
Measured Span (mm)	1836			
Measured At Ring No.	5			
Deflection (mm)	7			
Percent Deflection				
Floor		N	N	.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		5	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	N	Pitting rust on bottom 1/6 of culvert.-01-Feb-2007
Corrosion By Soil (Y/N)	No			
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): , Rise (mm): 1829, Type: SP)					
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	No				
Fish Passage Adequacy		4	4	0.5m drop off at outlet.	
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	6		
Icing (Y/N)	No				
Silting (Y/N)	No			Beaver dam at inlet and 15m d/s.	
Drift (Y/N)	Yes				
Barrel General Rating		5	N	GR 5 -01-Feb-2010	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Span Type: Primary Span)					
Direction		S		(West culvert)	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		N	6		
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	500				
Scour Protection		N	7	(some scour at bevel edge 1.0m towards barrel 2000/12/11)	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		N	7		
Beavers (Y/N)	Yes			15m d/s	
Downstream End General Rating		5	6		
Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 2, Span Type: Secondary Span)					
Direction		N		(East culvert)	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End		N	N	(First 0.3 m on bottom damaged and rusted.20001211) Covered by beaverdam.
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		N	N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	Yes			Beaver dam at inlet.
Upstream End General Rating		5	5	General rating carried forward.-01-Feb-2007
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)				
Barrel Last Accessible Date	01-Feb-2007			Beaver dam directly u/s and 15m d/s of outlet causing 0.9m of water to sit in pipe.
Special Features				
Special Feature				Couldn't access pipe, shape looks ok as viewed from ends.
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	(2003.11.04) ice on floor
Measured Rise (mm)	1780			
Measured At Ring No.				
Sag (mm)	49			
Percent Sag	3			
Sidewall		7	N	
Measured Span (mm)	1797			
Measured At Ring No.				
Deflection (mm)	32			
Percent Deflection	2			
Floor		N	N	Poor rusting of seams at rings 4,5,7&8. 2 bolts missing in culvert. pitting rust on bottom 1/6 of pipe.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	9 bolts missing in culvert.
Separation (mm)	0			
Longitudinal Seams		5	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	N	Pitting rust on bottom 1/6 of culvert.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)				
Ponding (Y/N)	No			0.5m drop off at outlet.-01-Feb-2007
Fish Passage Adequacy		4	4	Beaver dam
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			Beaver dam at inlet and 15m d/s.
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		5	N	GR '5' 01-Feb-2007

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		S		East outlet.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	5	
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	500			
Scour Protection		N	N	Underwater
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Under water.
Beavers (Y/N)	Yes			15m d/s
Downstream End General Rating		5	5	GR carried over 01-feb-2007

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		4	4	Vertical banks downstream.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			DEGRADATION AT D/S END OF BOTH PIPES Beaver dam at u/s inlet and 15m d/s.
Beavers (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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	2010	Remove beaver dams u/s and d/s.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	50.1/50.0	Est. Repl. Yr	2013	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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	03-Aug-2013		Previous Inspection Date	01-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							