

Bridge Culvert Inspection				
Bridge File Number	70821 -1 Bridge Culvert		Form Type	CULE
Year Built/Lined	1956/2008		Lot No.	4
Bridge or Town Name	WANHAM		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO KAKUT CREEK, 8.10.58.11.3.5, WATERCRS-ST		Inspector Class	BR CLS B
Located On	733:04 C1 16.862		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	08-Nov-2011
Legal Land Location	NW SEC 22 TWP 76 RGE 3 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:23:18, 55:36:18		Data Entry Date	12-Dec-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05		Review Date	12-Dec-2011
Clear Roadway/Skew	13 / 20 deg. (RHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	610 / 2010 (A)		Dept. Review Date	10-Jan-2012
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
2	MAIN FULL LINER	-	1500	SP	70.1	160X50	3.0	ROUND
2	D/S FULL LINER	-	2120	SP	19.4	152X51	3.0	ROUND
Special Features		BARREL ELBOW						
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power	O/H East r/w	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Located at an intersection. Located at the top of a hill. includes turning lane at intersection
Vertical Alignment		5	5	
Roadway Width (m)	13.000			
Embankment		9	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 9)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		9	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) :)		9	7	
Scour/Erosion		9	7	
Beavers (Y/N)	Yes			
Upstream End General Rating		9	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: SP)				
Barrel Last Accessible Date	07-Nov-2008			~ 1m of ice and water
Special Features				
Special Feature (Type : BARREL ELBOW)		9	N	
Special Feature (Type :)				
Roof		7	N	Rings 8, 13, 18, 29, 46, 49, 61, 79, 90 have punctures or dents from construction-photo-07-Nov-2008
Measured Rise (mm)	1434			
Measured At Ring No.	40			
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	N	
Measured Span (mm)	1434			
Measured At Ring No.	40			
Deflection (mm)	0			
Percent Deflection	0			
Floor		9	N	
Bulge (mm)	0			
Measured At Ring No.	40			
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)				
Longitudinal Seams		9	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		9	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: SP)				
Camber POS/ZERO/NEG	ZERO			-Just at u/s end.-07-Nov-2008
Ponding (Y/N)	Yes			Steep vertical elbows @ d/s end.-07-Nov-2008
Fish Passage Adequacy		3	3	Vertical elbows @ d/s end.
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	N	GR was '9' on 07-Nov-2008
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 2120, Type: SP)				
Barrel Last Accessible Date	07-Nov-2008			~1m ice and water
Special Features				
Special Feature		9	N	
(Type : BARREL ELBOW)				
Special Feature				
(Type :)				
Roof		7	N	Rings 8, 13, 18, 29, 46, 49, 61, 79, 90 have punctures or dents from construction-photo-07-Nov-2008
Measured Rise (mm)	1434			
Measured At Ring No.	40			
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	N	
Measured Span (mm)	1434			
Measured At Ring No.	40			
Deflection (mm)	0			
Percent Deflection	0			
Floor		9	N	
Bulge (mm)	0			
Measured At Ring No.	40			
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)				
Longitudinal Seams		9	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		9	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 2120, Type: SP)				
Camber POS/ZERO/NEG	ZERO			Just at u/s end.-07-Nov-2008
Ponding (Y/N)	Yes			Steep vertical elbows @ d/s end.-07-Nov-2008
Fish Passage Adequacy		3	3	Steep vertical elbow @ d/s ends.
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		9	N	GR was '9' on 07-Nov-2008

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1500			
Scour Protection		9	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	7	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
				Incised channel.
Bank Stability		9	7	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
(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) (%)	100.0/55.6	Sufficiency Rating (Last/Now) (%)	91.0/65.3	Est. Repl. Yr	2075	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	Laurie McCarron		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	08-Feb-2015		Previous Inspection Date	07-Nov-2008			
Inspection Cycle (Default) (months)	39						
Comment							