

Bridge Culvert Inspection			
Bridge File Number	77496 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	4
Bridge or Town Name	PEKISKO	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO HIGHWOOD RIVER, 2.13.27.34, WATERCRS-ST	Inspector Class	BR CLS A
Located On	40:10 C1 11.721	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	22-Jun-2011
Legal Land Location	NE SEC 21 TWP 17 RGE 6 W5M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-114:45:42, 50:27:09	Data Entry Date	13-Jul-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA28	Review Date	28-Jun-2011
Clear Roadway/Skew	11 / -5 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	440 / 2010 (A)	Dept. Review Date	15-Jul-2011
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	50		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	4482	4056	SPE	53	152X51	4.0	ELLIPSE
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	6	Crest over pipe. Lineham Creek. Curve South.
Vertical Alignment	6	6	
Roadway Width (m)	11.000		
Embankment	7	7	
Sideslope (__:1)	2.5		
(Height of Cover(m) : 6.2)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	7	7	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	Below streambed

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	7	Sparse at upper half at bevel. MIX OF 500 mm TO 1000 mm ROCK
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		7	7	Concrete apron at streambed at inlet
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4482, Rise (mm): 4056, Type: SPE)				
Barrel Last Accessible Date	22-Jun-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Inward
Measured Rise (mm)	4080			
Measured At Ring No.	2			
Sag (mm)	24			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	4540			
Measured At Ring No.	2			
Deflection (mm)	58			
Percent Deflection	1			
Floor		6	6	50% ROCK COVERED, avg 400mm deep. Some CL 1 rock in barrel @ u/s end
Bulge (mm)	0			
Measured At Ring No.				Dents at haunches.
Abrasion (Y/N)	Yes			
Circumferential Seams		8	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Superficial corrosion @ waterline, and u/s bevel.
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): 4482, Rise (mm): 4056, Type: SPE)				
Fish Passage Adequacy		7	7	
Baffle		6	6	10% abasion on baffles
(Type : SPOILER)				
Waterway Adequacy		7	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		W		
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)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	8	1000 mm DIA ROCK @ SW
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Curve at upstream end causes stream TO ENTER @ SE BANK WHICH IS ARMoured WITH CLASS 3 ROCK & CONCRETE.
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible HWM (950619)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	73.9/73.8	Est. Repl. Yr	2033	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	22-Mar-2013		Previous Inspection Date	04-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							