

Bridge Culvert Inspection				
Bridge File Number	78563 -1 Bridge Culvert		Form Type	CUL1
Year Built	1985		Lot No.	4
Bridge or Town Name	PEKISKO		Inspector Name	Garry Roberts
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	22:10 C1 28.540		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	06-Jun-2012
Legal Land Location	NW SEC 20 TWP 17 RGE 2 W5M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-114:14:34, 50:26:54		Data Entry Date	09-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA27		Review Date	18-Jun-2012
Clear Roadway/Skew	10 / -6 deg. (LHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	1,850 / 2011 (A)		Dept. Review Date	12-Jul-2012
Road Classification	RAU-209-110		Follow-Up By	
Detour Length (km)	19			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	36	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Posting Information											
Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks	Not required										

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		9	8	
Vertical Alignment		7	7	
Roadway Width (m)	10.000			
Embankment		7	7	
Sideslope (___:1)	4.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	6	Minor erosion on both sides of U/S from road drainage.
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	06-Jun-2012			Monitoring of previous marks continue. Pipe handles watercourse flow and no longer used as cattle pass
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	2125			
Measured At Ring No.	3			
Sag (mm)	75			
Percent Sag	3			
Sidewall		5	5	
Measured Span (mm)	2033			Barrel shape is adequate despite inward deflections
Measured At Ring No.	6			
Deflection (mm)	167			
Percent Deflection	7			
Floor		7	N	Approx. 200-300mm of silt and mud 400mm water at D/S
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	220			
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): , Rise (mm): 2200, Type: MP)				
Coating		5	5	Superficial corrosion @ floor
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		E		East end.	
End Treatment (Concrete, Steel, Others, None)	NONE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		X	X		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	100				
Scour Protection		6	6		
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		6	6		
Beavers (Y/N)	No				
Downstream End General Rating		6	6		

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	X	
Roadway Surface		6	X	
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	(HWM 1.0m - small drift above S.B. @ U/S bevel.)
Structure In Use (Y/N)	No			East guide fencing has been removed.
Grade Separation 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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	65.8/59.7	Est. Repl. Yr	2022	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	06-Mar-2014		Previous Inspection Date	09-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							