

Bridge Culvert Inspection				
Bridge File Number	76746 -1 Bridge Culvert		Form Type	CUL1
Year Built	1967		Lot No.	3
Bridge or Town Name	NEW SAREPTA		Inspector Name	Dave Lam
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	623:04 C1 14.078		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	11-Jul-2011
Legal Land Location	SW SEC 24 TWP 49 RGE 21 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:56:31, 53:14:28		Data Entry Date	21-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA16		Review Date	28-Jul-2011
Clear Roadway/Skew	9.3 / 0 deg.		Dept. Reviewer Name	Andrew Smikles
AADT/Year	820 / 2010 (A)		Dept. Review Date	29-Aug-2011
Road Classification	RAU-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
1	MAIN	1724	1901	MP	19.5	68X13	3.5	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		6	6	Farm access to west, crest curve. With no passing.
Vertical Alignment		6	6	
Roadway Width (m)	9.300			
Embankment		7	5	Numerous wide trans. crack over/either side of pipe (photo).
Sideslope (___:1)	3.0			
(Height of Cover(m) : 0.9)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	1650 X 1880mm
Cutoff Wall		X	X	
Bevel End		X	X	No bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		7	X	
Scour/Erosion		7	X	
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): 1724, Rise (mm): 1901, Type: MP)				
Barrel Last Accessible Date	05-Jun-2007			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		7	7	
Measured Rise (mm)	1865			Section 2
Measured At Ring No.				
Sag (mm)	36			1.9%
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	1666			Section 3
Measured At Ring No.				
Deflection (mm)	58			3.4%
Percent Deflection	3			
Floor		N	4	Dirt on floor for cattle passage is soaked and slippery. Visible steel in good shape.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	35			
Longitudinal Seams		X	5	Rivetted seam. Leaking thru rivetted seams (photo).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Superficial rust on floor few spots.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: MP)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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	No bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	X	Some rocks visible.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		7	X	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Roadway Surface		6	4	Dirt floor wet & soaked.
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	NONE			
Lighting		X	X	
Barrel Leakage (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		7	4	Ponded water & dirt floor is saturated.
Structure In Use (Y/N)	No			
Grade Separation General Rating		6	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	2011	Seal trans. cracks.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	78.8/67.4	Est. Repl. Yr	2024	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	(Structure serves as drainage structure also. Not used as cattle pass at present. 05/06/07).		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	Glen Smith		Previous Assistant's Name				
Next Inspection Date	11-Oct-2014		Previous Inspection Date	05-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							