

Bridge Culvert Inspection				
Bridge File Number	09953 -1 Bridge Culvert		Form Type	CUL1
Year Built	1973		Lot No.	4
Bridge or Town Name	VEGREVILLE		Inspector Name	Owen Salava
Located Over	TRIBUTARY TO VERMILION RIVER, 6.5.36, WATERCRS-ST		Inspector Class	BR CLS A
Located On	857:02 C1 31.053		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Jul-2011
Legal Land Location	NW SEC 32 TWP 51 RGE 14 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:02:30, 53:27:03		Data Entry Date	10-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA14		Review Date	19-Jul-2011
Clear Roadway/Skew	9.8 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	800 / 2010 (A)		Dept. Review Date	22-Aug-2011
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1829	1118	FP	20.7	68X13	3.5	ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power	10m E of CL. 4 wire		Municipal	
Others			Problem (Y/N)	No
Remarks	Crosses 10m S of culvert.			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersection 100m north.
Vertical Alignment		9	9	
Roadway Width (m)	9.800			
Embankment		8	8	
Sideslope (:1)	4.0			
(Height of Cover(m) : 1.1)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	120			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	5	No erosion. Culvert serves as equalizer btwn 2 sloughs.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Barrel Last Accessible Date	16-Mar-2004			Viewed from ends, looks OK. 400mm water at E end; 600mm at W end. 1830x1050 near c/l.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	68			(6% sag. 16Mar2004).
Percent Sag	6			
Sidewall		N	N	(Lower sidewall heavy corrosion & scaling. 16Mar2004).
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	(Estimated. Heavy scaling, loss of section. 16Mar2004).
Bulge (mm)	40			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	20			
Longitudinal Seams		N	N	Rivetted - (lower rivets rusting out. 16Mar2004).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(Lower sidewall/floor heavy scaling, corrosion & loss of section - photo. 16Mar2004).
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
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		4	4	G.R. carried forward since 16Mar2004.
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		N	4	Steel angle surround torn away at roof (photo).
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		N	N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	(Small area of 200mm deep scour right next to end of the culvert. 16Mar2004).
Beavers (Y/N)	No			
Downstream End General Rating		7	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	5	No discernible channel.
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.4			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	59.8/55.6	Est. Repl. Yr	2020	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Replace pipe when coating compromises structural. No action at this time.		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	14-Oct-2014		Previous Inspection Date	07-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							