

Bridge Culvert Inspection				
Bridge File Number	02006 -1 Bridge Culvert		Form Type	CUL1
Year Built	1969		Lot No.	1
Bridge or Town Name	VEGREVILLE		Inspector Name	Owen Salava
Located Over	TRIBUTARY TO VERMILION RIVER, 6.5.41, WATERCRS-ST		Inspector Class	BR CLS A
Located On	857:02 C1 20.807		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Jul-2011
Legal Land Location	NW SEC 31 TWP 50 RGE 14 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:02:58, 53:21:38		Data Entry Date	09-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA14		Review Date	19-Jul-2011
Clear Roadway/Skew	7.3 / -30 deg. (LHF)		Dept. Reviewer Name	Chris Black
AADT/Year	320 / 2010 (A)		Dept. Review Date	30-Aug-2011
Road Classification	RCU-209-110		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	-	1524	MP	36	68X13	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	West 5 wire O/H E 1 wire O/H		Municipal
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Culvert located in middle of horizontal curve.
Vertical Alignment	8	8	
Roadway Width (m)	7.300		
Embankment	8	8	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 2.4)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

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		6	6	Minor dent @ SE lip.
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		4	4	Bagged concrete-insufficient. Some scour beside bevel.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date	22-Dec-1987			Only 1/3 of the length was accessible due to water depth. Water to within 700mm of crown under road.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	200			from past insp.
Percent Sag	13			
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	150			9.8% from past insp.
Percent Deflection	10			
Floor		N	N	850mm water at D.S. end
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			Rust + scale.
Circumferential Seams		N	N	
Separation (mm)	0			
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)				
Coating		4	4	Rust throughout; worst below springline.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Fish Passage Adequacy		X	X	
Baffle (Type :)		X	X	
Waterway Adequacy		7	7	
Icing (Y/N)		No		
Siltting (Y/N)		No		
Drift (Y/N)		No		
Barrel General Rating		4	3	Previous GR was 4 but previous sag suggested a 3 rating.
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 (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		N	6	850mm water in bevel.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)		0		
Scour Protection (Type :) (Avg. Rock Size(mm) :)		5	5	Bagged concrete.
Scour/Erosion		N	N	Under water.
Beavers (Y/N)		No		
Downstream End General Rating		7	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)		0.4		
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		AGGRADING		
Beavers (Y/N)		No		
(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	2012	Fill void under u/s bevel, 2m3 clay.					
OTHER ACTION	2012	Consider dewater & inspect; no access for 14yrs.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	59.7/52.6	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
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	Glen Smith		Previous Assistant's Name				
Next Inspection Date	14-Oct-2014		Previous Inspection Date	07-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							