

Bridge Culvert Inspection			
Bridge File Number	00381 -1 Bridge Culvert	Form Type	CUL1
Year Built	1962	Lot No.	4
Bridge or Town Name	OLDS	Inspector Name	Owen Salava
Located Over	LONEPINE CREEK, 3.46.21, WATERCRS-ST	Inspector Class	BR CLS A
Located On	27:08 C1 5.640	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Oct-2012
Legal Land Location	SW SEC 5 TWP 33 RGE 28 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-113:56:38, 51:47:40	Data Entry Date	08-Nov-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA29	Review Date	29-Oct-2012
Clear Roadway/Skew	11.1 /	Dept. Reviewer Name	Andrew Smikles
AADT/Year	2,550 / 2011 (A)	Dept. Review Date	13-Nov-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2603	2877	SPE	54.3	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North r/w.	Gas	
Power	2 wires at upstream North fence. 2 wires 150m West.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Local access 150m West.
Vertical Alignment		7	7	
Roadway Width (m)	11.100			10.0m bench North side. 5.0m bench South side.
Embankment		8	8	
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 3.8)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
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	Slight damage @ West.
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		N	5	Some concrete bags washed into barrel.
(Type : CONCRETE)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	5	
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): 2603, Rise (mm): 2877, Type: SPE)				
Barrel Last Accessible Date	24-Oct-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	2820			
Measured At Ring No.	11			
Sag (mm)	57			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	2695			
Measured At Ring No.	11			
Deflection (mm)	92			3.5%
Percent Deflection	3			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
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)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Superficial, no pitting on floor. Minor handling indentations and two 40mm perforations from equipment @ R6 W wall.
Corrosion By Soil (Y/N)	No			
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): 2603, Rise (mm): 2877, Type: SPE)					
Fish Passage Adequacy		4	4	Barrel 1m above streambed @ D/S end - no action.	
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	6	Some rocks in barrel floor.	
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		S			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		5	5	Cattle action above. Perched.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	1000				
Scour Protection		N	5	2m dia rock filled scour hole off bevel. 1m from invert to streambed.	
(Type : CONCRETE)					
(Avg. Rock Size(mm) : 250)					
Scour/Erosion		N	5		
Beavers (Y/N)	No				
Downstream End General Rating		5	5		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		8	8	Cattle pond D/S channel.	
Bank Stability		7	7		
HWM (m below Top of Culvert)				No HWM visible.	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	DEGRADING				
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		8	8		

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) (%)	60.9/61.0	Est. Repl. Yr	2020	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	24-Jul-2014		Previous Inspection Date	08-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							