

Bridge Culvert Inspection								
Bridge File Number	74833 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1988				Lot No.	4		
Bridge or Town Name	VAUXHALL				Inspector Name	Jon Davies		
Located Over	BRP - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B		
Located On	36:04 C1 39.855				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	02-Jan-2012		
Legal Land Location	SE SEC 34 TWP 13 RGE 16 W4M				Data Entry By	Anne Roberts		
Longitude, Latitude	-112:05:51, 50:07:28				Data Entry Date	24-Feb-2012		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts		
Contract Main. Area	CMA24				Review Date	20-Jan-2012		
Clear Roadway/Skew	10.6 /				Dept. Reviewer Name	Tim Davies		
AADT/Year	2,030 / 2010 (A)				Dept. Review Date	11-Mar-2012		
Road Classification	RAU-211.8-110				Follow-Up By			
Detour Length (km)	3							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	6900	2800	RPA	23.2	152X51	5.0,4.0,4.0	ARCH
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	W R/W-x's canal 15m W				Gas			
Power	3 line east r/w.				Municipal			
Others	Fibre optic cable West ROW				Problem (Y/N)	No		
Remarks	STEEL CONDUIT OVER WEST CROWN							
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			9	9				
Vertical Alignment			8	8				
Roadway Width (m)	10.600							
Embankment			8	7				
Sideslope (_ :1)	6.0							
(Height of Cover(m) : 0.8)								
Guardrail (Y/N)	Yes				2 LAYERS ENDING IN 3 m RADIUS TO CANAL ROADWAYS Incorrect lap at West and at 2 flare ends			
Approach Road / Embankment General Rating			8	8				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction			W		West invert.			
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			8	8				
Collar			8	8				
Wingwalls			8	8				
(Shape : FLARE)								
Cutoff Wall			N	N				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6900, Rise (mm): 2800, Type: RPA)				
Barrel Last Accessible Date	03-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	6	Est. General roof shape is good.
Measured Rise (mm)	2650			
Measured At Ring No.	4			
Sag (mm)	150			
Percent Sag	5			
Sidewall		N	7	Inward
Measured Span (mm)	6880			
Measured At Ring No.	3			
Deflection (mm)	20			
Percent Deflection	0			
Floor		N	N	700 mm of ice
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	6	3N Stagger on roof only
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)	No			
Coating		N	5	Superficial corrosion
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6900, Rise (mm): 2800, Type: RPA)				
Fish Passage Adequacy		X	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		8	8	
(Shape : FLARE)				
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	Turn out structure 20m u/s
Bank Stability		8	8	No HMW visible
HWM (m below Top of Culvert)	0.7			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		9	9	

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) (%)	55.6/66.7	Sufficiency Rating (Last/Now) (%)	74.9/77.0	Est. Repl. Yr	2044	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	02-Oct-2013		Previous Inspection Date	23-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							