

Bridge Culvert Inspection			
Bridge File Number	71631 -2 Bridge Culvert	Form Type	CUL1
Year Built	2012	Lot No.	4
Bridge or Town Name	VALLEYVIEW	Inspector Name	Russel Vanderschaaf
Located Over	WOODPECKER CREEK, 8.10.58.7.23.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	43:06 C1 42.897	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	03-Dec-2012
Legal Land Location	SE SEC 22 TWP 70 RGE 23 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:24:51, 55:04:07	Data Entry Date	20-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA03	Review Date	09-Jan-2013
Clear Roadway/Skew	24.8 / -11 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	5,020 / 2011 (A)	Dept. Review Date	20-Mar-2013
Road Classification	RAD-412.4-120	Follow-Up By	
Detour Length (km)	1		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	4300	SP	117.65	152X51	4.2	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	At S side and N side.	Gas		
Power	At N side- 3 lines	Municipal		
Others	Power crosses 50m Eaast.	Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		8	Residence access 75m East.-removed and new construction for hwy twinning project.
Vertical Alignment		8	
Roadway Width (m)			
Embankment		9	
Sideslope (__:1)			
(Height of Cover(m) : 16)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		8	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall		9	
Collar		9	
Wingwalls		9	
(Shape :)			
Cutoff Wall		N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End			9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			9	
Beavers (Y/N)	No			
Upstream End General Rating			9	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 4300 , Type: SP)				
Barrel Last Accessible Date	03-Dec-2012			Ice 3.6m from u/s crown.
Special Features				
Special Feature				New 4300 SPCSP installed for twinning.
(Type :)				
Special Feature				
(Type :)				
Roof			9	Estimated due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	65			
Percent Sag				
Sidewall			9	Inward deflection.
Measured Span (mm)	4268			
Measured At Ring No.	49			
Deflection (mm)	32			
Percent Deflection				
Floor			N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			9	
Separation (mm)				
Longitudinal Seams			9	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)				
Coating			9	Efflorescence R 78 & 79 @ 4:00.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP)				
Fish Passage Adequacy			9	
Baffle			N	
(Type :)				
Waterway Adequacy			9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			9	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall			9	
Collar			9	
Wingwalls			X	
(Shape :)				
Cutoff Wall			N	
Bevel End			9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion			9	riprap 500
Beavers (Y/N)	No			
Downstream End General Rating			9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			7	
Bank Stability			6	
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/100.0	Sufficiency Rating (Last/Now) (%)	/98.5	Est. Repl. Yr	2057	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			Previous Assistant's Name				
Next Inspection Date	03-Sep-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							