Bridge Culvert Inspection

Bridge File Number	86016 E-1 Bridge Culvert	Form Type	CULM
Year Built	2010	Lot No.	
Bridge or Town Name	SPRUCE CREEK CULVERT ON PROVINCIAL HIGHWAY 43 NEAR WEMBLEY	Inspector Name	Eric Carcoux
		Inspector Class	BR CLS A
Located Over	SPRUCE CREEK, 8.10.58.18.8.1.1, WATERCRS-ST	Assistant Name	
		Assistant Class	
Located On	43:02 R1 8.981	Inspection Date	29-Apr-2013
Water Body Cl./Year		Data Entry By	Theresa Lacusta
Navigabil. Cl./Year		Data Entry Date	29-Apr-2013
Legal Land Location	SW SEC 28 TWP 71 RGE 9 W6M	Reviewer Name	
Longitude, Latitude	-119:19:37, 55:10:14	Review Date	
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	
Contract Main. Area	CMA05	Dept. Review Date	
Clear Roadway/Skew	15.4 /	Follow-Up By	
AADT/Year	7,430 / 2012 (A)		
Road Classification	RAD-412.4-120		
Detour Length (km)	1		

Bridge Culvert Information

Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1400	MP	37.8	125X26	2.8	ROUND
2	MAIN	-	1400	MP	37.8	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7		
Vertical Alignment		8		
Roadway Width (m)				
Embankment		9		
Sideslope (__:1)				
(Height of Cover(m) : **1.5**)				
Guardrail (Y/N)				
Approach Road / Embankment General Rating		**7**		

Upstream End

Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Span Type:**)				
Direction		N		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		

Upstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Span Type:**)				
Wingwalls		X		
(Shape :)				
Cutoff Wall		X		
Bevel End		9		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		9		
(Type : **RIP RAP**)				
(Avg. Rock Size(mm) : **300**)				
Scour/Erosion		9		
Beavers (Y/N)				
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): 1400, Type: MP**)				
Barrel Last Accessible Date				
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9		
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		9		
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		9		
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8		
Separation (mm)				
Longitudinal Seams		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)				

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP**)				
Coating		9		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		9		
Baffle		X		
(Type :)				
Waterway Adequacy		9		
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating		**9**		

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP**)				
Barrel Last Accessible Date				
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9		
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		9		
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		9		
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		9		
Separation (mm)				
Longitudinal Seams		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)				

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP**)				
Coating		9		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		9		
Baffle		X		
(Type :)				
Waterway Adequacy		9		
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating		**9**		

Downstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **2, Span Type:**)				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		X		
(Shape :)				
Cutoff Wall		X		
Bevel End		9		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		9		
(Type : **RIP RAP**)				
(Avg. Rock Size(mm) : **300**)				
Scour/Erosion		9		
Beavers (Y/N)				
Downstream End General Rating		**9**		

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel (U/S and D/S)				
Alignment		8		
Bank Stability		9		
HWM (m below Top of Culvert)				
Drift (Y/N)				

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)				
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**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) (%)	**100.0/**	**Sufficiency Rating (Last/Now) (%)**	**99.3/**	Est. Repl. Yr		Maint. Reqd. (Y/N)	

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	Brian Pientsch	Previous Assistant's Name	Brian Cote		
Next Inspection Date	29-Jan-2015	Previous Inspection Date	04-Jul-2011		
Inspection Cycle (Default) (months)	21				
Comment					