Bridge Culvert Inspection

Bridge File Number	80913 -1 Bridge Culvert	Form Type	CUL1
Year Built	1988	Lot No.	4
Bridge or Town Name	ELK POINT	Inspector Name	Kris Bosters
Located Over	TRIBUTARY TO SILER CK, 6.17.1, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	Brian Cote
Located On	646:02 C1 30.312	Assistant Class	
Water Body Cl./Year		Inspection Date	19-Dec-2012
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	NW SEC 27 TWP 56 RGE 8 W4M	Data Entry Date	15-Jan-2013
Longitude, Latitude	-111:06:31, 53:52:27	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	19-Dec-2012
Contract Main. Area	CMA08	Dept. Reviewer Name	Paul Catt
Clear Roadway/Skew	9 / 26 deg. (RHF)	Dept. Review Date	18-Jan-2013
AADT/Year	720 / 2011 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1600	MP	31	68X13	2.8	ROUND
Special Features								
Special Features Comment		File tag not found						

Utilities (Located at)

Utility Attachments			
Telephone	Exposed cable running through culvert.	Gas	
Power		Municipal	
Others		Problem (Y/N)	Yes
Remarks	Exposed cable running through culvert. Cable is cut and not active.		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curves within 300 m in each direction. Long grade up to west with limited sight distance. Wide ACP transverse crack above culvert.
Vertical Alignment		7	7	
Roadway Width (m)	9.000			
Embankment		5	5	Slope steepens @ North end from 3:1 to 2:1 due to culvert length.
Sideslope (__:1)	2.0			
(Height of Cover(m) : **2**)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		**5**	**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 :)				

Upstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Cutoff Wall		X	X	
Bevel End		8	N	Snow covered
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		8	N	
(Type : **RIP RAP**)				
(Avg. Rock Size(mm) : **300**)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		**8**	**8**	Carried over.

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP**)				
Barrel Last Accessible Date	07-Oct-2009			Water not frozen, still running. Barrel not accessible.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	At 1/3 L upstream.-07-Oct-2009
Measured Rise (mm)	1640			
Measured At Ring No.				
Sag (mm)	40			
Percent Sag	3			
Sidewall		8	N	At 1/3 L upstream.-07-Oct-2009
Measured Span (mm)	1547			
Measured At Ring No.				
Deflection (mm)	53			
Percent Deflection	3			
Floor		8	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	110			
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		8	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP**)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	Active spring area to NW of culvert.-May 31, 2006
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		**8**	**N**	Last rated 8 on 07-Oct-2012

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		8	N	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	260			
Scour Protection		8	N	
(Type : **RIP RAP**)				
(Avg. Rock Size(mm) : **300**)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Rating		**8**	**8**	carried over

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	AGGRADING			
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) (%)	**88.9/55.6**	**Sufficiency Rating (Last/Now) (%)**	**87.7/72.0**	Est. Repl. Yr	2043	Maint. Reqd. (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	Shane Hall	Previous Assistant's Name			
Next Inspection Date	19-Mar-2016	Previous Inspection Date	07-Oct-2009		
Inspection Cycle (Default) (months)	39				
Comment					