Bridge Culvert Inspection

Bridge File Number	76016 -1 Bridge Culvert	Form Type	CUL1
Year Built	1964	Lot No.	4
Bridge or Town Name	MOONSHINE L	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO JOSEPHINE CREEK, 8.10.83.3.1, WATERCRS-ST	Inspector Class	BR CLS B
		Assistant Name	
Located On	725:02 C1 21.104	Assistant Class	
Water Body Cl./Year		Inspection Date	06-Mar-2012
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	NW SEC 16 TWP 81 RGE 8 W6M	Data Entry Date	27-Mar-2012
Longitude, Latitude	-119:12:04, 56:01:29	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	22-Mar-2012
Contract Main. Area	CMA05	Dept. Reviewer Name	David Morrison
Clear Roadway/Skew	9.2 / 30 deg. (RHF)	Dept. Review Date	30-Oct-2012
AADT/Year	390 / 2011 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	9		

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2590	SP	59.7	152X51	3.0,3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	W r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	CURVE TO SOUTH PASSING ALLOWED
Vertical Alignment		8	8	
Roadway Width (m)	9.200			
Embankment		7	7	
Sideslope (__:1)	4.0			
(Height of Cover(m) : **2**)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		**7**	**7**	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
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		N	N	Snow covered.
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	SLUMP ALONG SOUTH EDGE OF BEVEL- 2002-06-22 Snow covered
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		**4**	**4**	GR carried over from 22-Jun-2002.

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2590, Type: SP**)				
Barrel Last Accessible Date	06-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Floor ice covered.
Measured Rise (mm)				Estimated
Measured At Ring No.				
Sag (mm)	30			
Percent Sag				
Sidewall		6	6	18th ring @ 3:00 "Hole" 50 x 100mm
Measured Span (mm)	2711			
Measured At Ring No.	12			
Deflection (mm)	121			
Percent Deflection	5			
Floor		N	N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				After ring 18 seams are at 10:00 + 2:00
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	Deep pitting rust on floor.2002-06-20 Ice covered
Corrosion By Soil (Y/N)	No			
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): , Rise (mm): 2590, Type: SP**)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		**6**	**6**	

Downstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Snow covered
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	N	Snow covered
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Rating		**6**	**6**	GR carried over.22-Jun-2002

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		5	5	Vertical banks u/s.
HWM (m below Top of Culvert)				NO HWM visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**5**	**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) (%)	**66.7/66.7**	**Sufficiency Rating (Last/Now) (%)**	**66.5/68.0**	Est. Repl. Yr	2018	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	Brian Pientsch	Previous Assistant's Name	Tim Miskiman		
Next Inspection Date	06-Jun-2015	Previous Inspection Date	09-Jan-2009		
Inspection Cycle (Default) (months)	39				
Comment					