

Bridge Culvert Inspection				
Bridge File Number	77381 -1 Bridge Culvert		Form Type	CUL1
Year Built	1971		Lot No.	2
Bridge or Town Name	BLUEBERRY MT		Inspector Name	Russel Vanderschaaf
Located Over	BLUEBERRY CREEK, 8.10.83.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	725:02 C1 8.242		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	20-Mar-2012
Legal Land Location	SW SEC 9 TWP 80 RGE 8 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:12:04, 55:54:50		Data Entry Date	02-Apr-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05		Review Date	27-Mar-2012
Clear Roadway/Skew	9 /		Dept. Reviewer Name	David Morrison
AADT/Year	560 / 2011 (A)		Dept. Review Date	18-Oct-2012
Road Classification	RAU-209-110		Follow-Up By	
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	1724	1901	SPE	82.9	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	1 wire crosses road 100m North		Municipal
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	one farm access 100m south
Vertical Alignment	7	7	CREST CURVE TO NORTH RESTRICTS SIGHT DISTANCE
Roadway Width (m)	9.000		
Embankment	7	7	
Sideslope (__:1)	2.5		
(Height of Cover(m) : 1.2)			
Guardrail (Y/N)	Yes		
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		6	N	Covered in 150-300mm dia. drift.
Heaving (mm)	400			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	Snow covered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		6	6	GR carried fwd from 09-Jan-2009
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	20-Mar-2012			5% elipsed 1724 x 1901
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	1900			Est due to ice, shape looks ok as viewed from 10:00 to 2:00.
Measured At Ring No.	11			
Sag (mm)	1			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	1768			MINOR CONSTRUCTION DAMAGE TO BARREL @ line 3 o'clock.
Measured At Ring No.	11			Couldn't measure due to ice level, shape looks good from 10:00 to 2:00.
Deflection (mm)	44			
Percent Deflection	3			
Floor		N	N	ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	As seen from 10:00 to 2:00.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	N	Extensive rust & some pitting-09-Jan-2009
Corrosion By Soil (Y/N)	No			From 2:00 - 10:00 covered in ice.
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): 1724, Rise (mm): 1901, Type: SPE)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	9	150mm - 300mm dia. drift covering u/s bevel.-photo
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		6	7	
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		6	6	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
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	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	BEND AT U/S END - 30 DEGREES
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	From u/s end.					
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) (%)	66.7/77.8	Sufficiency Rating (Last/Now) (%)	69.1/80.4	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
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	20-Jun-2015		Previous Inspection Date	09-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							