## Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection													
Bridge File Number 75235 -1 Bridge Culvert						Form Type		CULM					
Year Built 1960							Lot No.		1				
Bridge or Town	Name	NESTC	OW				Inspect	or Name	Todd Warshav	Todd Warshawski			
Located Over	-	TAWAT	ATINAW RIVER, 8.11.68, WATERCRS-				Inspect	or Class	BR CLS B	BR CLS B			
Located On 2:38 C			0 04 40 440				Assista	nt Name					
Water Body CL	/Vear	2.00 0	1 10.440				Assistant Class						
Navigabil, CL/Voor							Inspection Date		29-Mar-2013				
Legal Land Location SE SE								Data Entry By Theresa Lacusta					
Longitude Latitude -113:3		-113:34	-37 54·14·35	vi		Data Entry Date		17-Apr-2013					
Road Authority A		Alberta	Transportation	(AIT)			Reviewer Name		Eric Carcoux	Eric Carcoux			
Contract Main. Area		CMA10							03-Apr-2013	03-Apr-2013			
Clear Roadway	/Skew	11 / 30	deg. (RHF)				Dept. H	eviewer Nam	Brent Herrick				
AADT/Year	:	3,300 /	2012 (A)						23-Apr-2013				
Road Classifica	ation	RAU-2	11.8-110				FUILOW-	ор Бу					
Detour Length (	(km)	30											
Bridge Culvert	Informa	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1800		SP		31.7	152X51	3.0	ROUND		
2	MAIN		-	1800		MP		31.7	68X13	2.8	ROUND		
Special Feature	es		VERT STEEL S	STRUTS									
Special Feature	es Comm	nent											
					1 14	lition /l	o o o to d	et)					
Litility Attachme	onte				01	nues (L	ocaleu	alj					
Telephone	Fast r/	<u>م</u>					Gas						
Power	2 wires	s cross	50m South				Municipal						
Others	2 11100						Probler	n (Y/N) No					
Remarks													
				Ap	oproa	ch Roac	l / Emba	ankment					
					Last	Now	Explanation of Condition						
Horizontal Align	nment				6	6	Built on curve with limited sight						
Vertical Alignme	ent				7	7	Northbound. LR intersection 60m north.						
Roadway Width	ר (m)		11.000										
Embankment					8 8								
Sideslope (	_:1)		6.0										
(Height of Co	ver(m) :	<b>0.7</b> )											
Guardrail (Y/N)			No										
Approach Roa	d / Emb	ankme	nt General Rat	ing	6	6							
						Unstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of Con	lition				
(Pipe # : 1, Spa	an Type	: Secol	ndary Span)										
Direction					W		South p	pipe.					
End Treatment (Concrete, Steel, STEEL Others, None)						Under	snow/ice.						
Headwall				Х	X								
Collar			Х	Х									
Wingwalls					Х	Х							
(Shape:)	(Shape : )												

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75235 -1 Bridge Culvert

Upstream End								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Second	ary Span)							
Cutoff Wall		X	X					
Bevel End		5	N	Pitting rust and heavy scaling lower				
Heaving (mm)	200			4/5Jun-2011				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	400							
Scour Protection	·	5	N					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		5	N					
Beavers (Y/N)	Yes							
Upstream End General Rating	1	5	5	GR carried fwd from Jun, 2011.				
		Bri	d <u>ge Cu</u>	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Secondary Span, Lo	cation Code: MAIN, S	Span (	mm):	, Rise (mm): 1800, Type: SP)				
Barrel Last Accessible Date	16-Nov-2000			Barrel not accessible.				
Special Features								
Special Feature		N	N					
(Type : VERT STEEL STRUTS)		1						
Special Feature								
(Type:)		I						
Roof		N	N	Near c/l.				
Measured Rise (mm)								
Measured At Ring No.				Estimate 8.7%(16/Nov/2000)				
Sag (mm)	156							
Percent Sag	9							
Sidewall	-	N	N	Near c/l.				
Measured Span (mm)	1956							
Measured At Ring No.								
Deflection (mm)	Deflection (mm) 156			8.7%(16/Nov/2000)				
Percent Deflection	9							
Floor		N	N					
Bulge (mm)				1				
Measured At Ring No.				1				
Abrasion (Y/N)	No			1				
Circumferential Seams		N	N					
Separation (mm)	25			1				
Longitudinal Seams		N	N	Riveted seams.				
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)				1				
Coating		3	N	Pitted on entire pipe with heavy scaling. Viewed from the ends. looks				
Corrosion By Soil (Y/N)	Yes			like there are perforations starting in the sidewall - photoJun, 2011				
Corrosion By Water (Y/N) Yes				1				

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1800, Type: SP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		X	X							
Baffle		X	Х							
(Type : )										
Waterway Adequacy		5	N							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	Yes									
Barrel General Rating		4	4	Earrel Danation of Condition Rise (mm): 1800, Type: SP) R. carried over from 16/Nov/2000. I End Danation of Condition ath pipe. we covered sion on bank both sides of bevels ~ 1m x 2m x 0.25m deepJun 1 we covered carried fwd from Jun, 2011 End Danation of Condition th pipe						
Culvert Commence		D	ownstr	ream End						
Culvert Component		Last	NOW	Explanation of Condition						
Direction	ary Span)	<b>_</b>		Could nine						
Direction	STEEL	E		South pipe.						
Others, None)	STEEL	X	V							
Headwall		X	X							
Collar		X	X							
Wingwalls		X	X							
(Shape : )		1	1							
Cutoff Wall		X	X							
Bevel End		5	N	Snow covered						
Heaving (mm)	0									
Invert Above/Below Stream Bed				-						
Above/Below (mm)			1							
Scour Protection		4	N	Erosion on bank both sides of bevels ~ 1m x 2m x 0.25m deepJun-						
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : <b>300</b> )			1	Snow covered						
Scour/Erosion	[	4	N	Snow covered						
Beavers (Y/N)	Yes									
Downstream End General Ratin	ng	4	4	GR carried fwd from Jun, 2011						
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Primary	v Span)									
Direction		W		North pipe						
End Treatment (Concrete, Steel, STEEL Others, None)										
Headwall		Х	X							
Collar		Х	Х							
Wingwalls		Х	X							
(Shape : )										
Cutoff Wall		Х	Х							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	/ Span)			
Bevel End		4	N	Pitting and scaling rust lower 1/2, a few dents/bends. Perforations in
Heaving (mm)	200			last 0.5m of bevel - photoJun-2011
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		5	N	Beaver debris on sideslopes.
(Type : <b>RIP RAP</b> )				Snow covered
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			N	Beaver debris on sideslopes.
Beavers (Y/N)	Yes			
Unstream End General Rating		4	4	GR carried forward from Jun. 2011
			, T	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ו):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	29-Mar-2013			
Special Features				
		_		
Roof		7	7	Silt on floor, unable to measure rise.
Measured Rise (mm)				-
Measured At Ring No.				est
Sag (mm) 50				-
Percent Sag	3			
Sidewall	I	7	3	Perforations along lower seam at Rings 1 &2.
Measured Span (mm)	1760			-
Measured At Ring No. 3				-
Deflection (mm)	0			-
Percent Deflection	0			
Floor		N	N	Covered with silt/water/ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	Lower 1/3 not rated.
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (V/N)	Yes			
	100	2	2	Pitting scaling rust lower 1/2 Porforations in and on LI/S havel, lun
	No	3	3	2011 2011
Corresion By Mater (V/N)	Voc			Perforations along lower seam in Ring 1 & 2.
Camber POS/ZERO/NEG	NEG			

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	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1800, Type: MP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		X	Х							
Baffle		Х	Х							
(Туре : )										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	Yes									
Barrel General Rating		7	3	rt Barrel xplanation of Condition ise (mm): 1800, Type: MP)  m End xplanation of Condition orth pipe.  now covered  now covered  R carried fwd from Jun, 2011.  JEage xplanation of Condition fater control wier 3.0m in front of inlet of South pipe.  hallow grass covered banks, low marshy areaJun, 2011 WM not visible. ift from beavers in channel.						
		D	ownsti	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Primary	/ Span)									
Direction		E		North pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	Х							
Collar			Х							
Wingwalls		X	Х							
(Shape : )										
Cutoff Wall		X	X							
Bevel End		5	N	Snow covered						
Heaving (mm)	200									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm) 200										
Scour Protection		5	N	Snow covered						
(Type : <b>RIP RAP</b> )				_						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		5	N							
Beavers (Y/N)	No									
Downstream End General Ration	ng	5	5	GR carried fwd from Jun, 2011.						
		S	Structu	re llsage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)	1	1-000	1							
Alignment			6	Water control wier 3.0m in front of inlet of South pipe.						
Bank Stability			N	Shallow grass covered banks, low marshy areaJun, 2011						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes			Drift from beavers in channel.						
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N)	Yes									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2	NONE)									

Structure Usage										
Last Now Explanation of Condition										
Channel General Rating			6							

Maintenance Recommendations													
Inspector Recommendations		Year	Inspecto	r Comments		Department Co	mmer	nts		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	)FF												
REPAIR SEAMS													
OTHER ACTION		2013	Program	replacement.									
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow)	44.4/33.	3	Sufficiency Rating (Last/Now) (%)		43.4/41.3	Est. Repl. Yr		2015	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection					Department Comments								
Maintenance Reviewed By						Date			E	Estimated Tota	I 0		
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Melanie Johnson					Previous Assistant's Name							
Next Inspection Date	29-Dec-2014					Previous Inspection Date 28-Jun-2011							
Inspection Cycle (Default) (months)	21												
Comment													