Bridge Inspection & Maintenance System (Web 2005)

E					Bridg	e Culve	ert Inspe	ection		1				
Bridge File Nun	nber 75	5409 -1	Bridge Culve	rt			Form T	уре						
Year Built	19	961					Lot No.			1				
Bridge or Town	Name AS	SHMO	NT				Inspect	or Name		Todd Warshawski				
Located Over TRIBUTAR			ARY TO WHIT	EFISH CI	REEK,	,	Inspector Class		BR CLS B					
Located On	28	20.2.0, 2·15 C1	1 <i>4 4</i> 65				Assista	Assistant Name						
Water Body Cl./Year			1 4.400				Assista	int Class	lass					
Navigabil. Cl./Year							Inspection Date			03-Apr-2013				
Legal Land Log	ation NF	E SEC	35 TWP 59 R	GE 11 W4	4M		Data E	ntry By		Theresa Lacus	sta			
Longitude. Latit	tude -1	11:31:	55. 54:09:01				Data E	Data Entry Date 23-Apr-2013						
Road Authority	Al	berta T	Fransportation	(AIT)			Reviewer Name							
Contract Main.	Area CI	MA08		<u> </u>			Dept Reviewer Name			Rent Herrick				
Clear Roadway	/Skew 10).9/					Dept. Reviewer Name		Brent Herrick					
AADT/Year 2,440		440 / 2	2012 (A)				Dept. Review Date		23-Apr-2013					
Road Classification RAL		AU-211	1.8-110				Follow-Up By							
Detour Length (km) 18														
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel	Span Rise (or			Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	- 3050				SP	40.8		152X51	3.5	ROUND			
Special Features														
Special Features Comment														
					1 14	litios (l	ocated	at)						
Utility Attachments					01	inties (E	ocaleu	aty						
Telephone	South r/v	Ν.					Gas							
Power	1 wire No	orth r/w	V.				Munici	bal						
Others BF tag installed on North end of b			of bevel.			Proble	m (Y/N)	No						
Remarks	Ŭ													
				Ap	oproad	ch Roac	l / Emba	ankment						
					Last	Now	Explan	ation of	Condi	tion				
Horizontal Alignment				6	6	In mide	lle of an '	S' curv	e. h directions					
Vertical Alignment				7	7	Signi	Jiaues up		in directions.					
Roadway Width (m)		10.900	7 7			75mm	dip in AC	Pover	pipe					
Embankment			7 7		7									
Sideslope (:1) 3.0														
(Height of Cover(m) : 2.1)														
Guardrail (Y/N)			Yes			Both sides, plastic posts. Improper lap at NW TDE. SW term end is corroded/torn. 1 broken post along South rail.		SW terminal						
Approach Roa	ld / Embar	nkmen	t General Rat	ing	6	6								
						Upstrea	am End							
Culvert Component			Last	Now	Explan	ation of	Condi	tion						
Direction					Ν									
End Treatment Others, None)	(Concrete	, Steel	, STEEL			_								
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					Х	Х								
(Shape :)														
Cutoff Wall	Cutoff Wall				Х	X								

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			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6	Floor of bevel silted over and vegetation growing.					
Heaving (mm)	100			Approx. 1m of silt @ u/s end over 6m.					
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection		6	6	Well vegetated and stable.					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Unstream End General Rating		6	6						
	I	Bric	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 3050, Type: SP)					
Barrel Last Accessible Date	03-Apr-2013			Barrel used for snowmobile & ATV crossing.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type :)									
Roof		6	6	Shape appears good					
Measured Rise (mm)			U	Rise not measured due to ice					
Measured At Ring No				- INISSING DOILS IN R I & R IS UPPER Seam.					
Sag (mm)									
Percent Sag	3								
Sidewall	0	2	2	Sidewall of ring #7 & 8 is cracked on 2 seams 3 & 9 o'clock					
Measured Span (mm)	3130	2	2						
Measured At Ring No	8								
Deflection (mm)	80								
Percent Deflection	3								
Floor	5	N	N	Floor silt/ico covorod					
Bulge (mm)	0		IN						
Measured At Ring No									
Abrasion (V/N)	No								
Circumferential Seeme	NO	4	4	Missing add put. Coveral balta loopa					
Circumerential Seams	0	4	4	Missing odd hut. Several bolts loose.					
	0	0	0						
Longitudinal Seams	0	2	2	These cracks are at 3 o'clock and 9 o'clock.					
Total No. of Rings with Two Cracked Seams	2			Crack in ring 9 at 3 o'clock. Visible cracks very small					
Cracked Seams Min. Remaining Steel 125 Between Cracks (mm)									
Proper Lap (Y/N) No									
Longitudinal Stagger (Y/N)	Yes			1N stagger.					
Coating		4	4	Scaling and pitting in lower 30%					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/7FRO/NEG	ZFRO								
Camberr CO/ZENC/NEG									
Ponding (Y/N)	Yes								

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Bridge Inspection & Maintenance System (Web 2005)

75409 -1 Bridge Culvert

		Brid	dge Cu	livert Barrel				
Culvert Component		Last Now		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 3050, Type: SP)				
Fish Passage Adequacy		4	4	About 1.5m above lake level.				
Baffle		Х	Х					
(Туре:)								
Waterway Adequacy		8	8	Culvert serves as an equalizer between two parts of Mann Lake.				
Icing (Y/N)	No		_					
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating			2					
			ownsti	ream End				
Culvert Component			Now	Explanation of Condition				
Direction		S						
End Treatment (Concrete, Steel, STEEL Others, None)								
Headwall			X					
Collar			X					
Wingwalls			X					
(Shape :)								
Cutoff Wall			X					
Bevel End		6	6	Silt along floor				
Heaving (mm)	150							
Invert Above/Below Stream Bed								
Above/Below (mm)								
Scour Protection		6	6	Grassed in.				
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion			6					
Beavers (Y/N) No								
Downstream End General Rating			6					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		8	8	Culvert does not appear to take any flow. Lake levels low. Standing water in culvert due to silt at both ends. Buried 200mm below natural ground at both ends.				
Bank Stability		7	7					
HWM (m below Top of Culvert)	1.1			HWM not visible				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	AGGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	8					

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	-		Maintenance Reco	mmendations			-			
Inspector Recommendations	Year	Inspector	r Comments	Departme	nt Comment	S	Tar	rget Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	2013	Remove	silt from bevels.							
INSTALL CONCRETE/STEEL LINING	(D)									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTG	OFF									
REPAIR SEAMS										
OTHER ACTION	2013	Repair gu relap.	uardrail, 1 post, 1 terminal end	and						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 22.2/22	2.2	Sufficiency Rating (Last/Nov (%)	v) 42.3/42.2	Est	. Repl. Yr 2	020	Maint. Req	ld. (Y/N)	Yes
Special Monitor crack, defle Comments for Preliminiary engine Next Inspection monitoring of struct	ection and corros sering report com ture.	sion. LRA i pleted in C	issued 15-Apr-2013 to Jeff Zha Oct 2012, recommended contin	ng. Departme ued Comment	s it					
Maintenance Reviewed By				Date			Estim	nated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Wade Nanning	19	Ē	evious Assistant's	Name					
Next Inspection Date	03-Apr-2014		ā	evious Inspection [Date	10-Apr-2012				
Inspection Cycle (Modified) (months)	12									
Comment										

			Mainte	nance Recommend	dations							
Inspector Recom	mendations		Year	Inspecto	or Comments		Department Corr	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION		2013	Remove	silt from bevels.							
INSTALL CONCE	RETE/STEEL LINING	G										
INSTALL STRUT	S											
INSTALL CONCR	RETE COLLAR/CUT	OFF										
REPAIR SEAMS												
OTHER ACTION			2013	Repair g relap.	guardrail, 1 post, 7	I terminal end and						
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condi (%)	ition Rating (Last/N	low)	22.2/22.	2	Sufficiency Rat (%)	ing (Last/Now)	42.3/42.2	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	Yes
Special Monitor crack, deflection a Comments for Next Inspection Monitor crack, deflection a Preliminiary engineering r monitoring of structure.			nd corros eport com	sion. LRA	A issued 15-Apr-2 Oct 2012, recom	013 to Jeff Zhang. mended continued	Department Comments					
Maintenance Reviewed By							Date			Estimated Tota	1 0	
Proposed Long-Term Strategy							· · · · · ·		·			
On 3-Year Progra	am (Y/N)											
Proposed Action												
Previous Inspecto	or's Name	Wade	Wade Nanninga Previ				s Assistant's Name					
Next Inspection D	Date	03-Apr	-2014			Previous	Is Inspection Date 10-Apr-2012					
Inspection Cycle (months)	(Modified)	12										
Comment												