Bridge Culvert Inspection														
Bridge File Number 76028 -1 Bridge Culvert								m Type		CUL1				
Year Built		1964						Lot No.		4				
Bridge or Town I	ridge or Town Name SWAN HILLS						Inspect			Russel Vanderschaaf				
Located Over		TRIBUTA	RY TO SWAI 9.17, WATER		,		Inspec	or Class		BR CLS B				
Located On		33:12 C1						Int Name						
Water Body Cl./	Year	00.12 01	20.010			Assistant Class								
Navigabil. Cl./Year							Inspection Date		11-Feb-2013					
Legal Land Location SW SEC 27 TWP 68 RGE 9 W5M					5M		Data Entry By		Theresa Lacusta					
Longitude, Latitude -115:17:24, 54:54:53							Data Entry Date		10-Apr-2013					
Road Authority Alberta Transportation (AIT)							Reviewer Name		Eric Carcoux					
Contract Main. Area CMA06						Review Date				07-Apr-2013				
Clear Roadway/Skew 11.4 / 12 deg. (RHF)						Dept. Re				<u>}</u>				
AADT/Year							Dept. Review Date							
Road Classificat								∙Uр Ву						
Detour Length (k	-	5	110											
Bridge Culvert	,													
Number of Culve		1												
	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	MAIN	34	495	3854		SPE		106.7		152X51	4.2	ELLIPSE		
Special Features			HOTCRETE			0. 2		100.1						
Special Features														
opoolar r oatarot	00111	non												
					Ut	ilities (l	ocated	at)						
Utility Attachmer	nts													
Telephone						Gas								
Power	6 wire	O/H East	r/w & 3 wire V	m Nort	h	Municipal								
Others							Problem (Y/N) No							
Remarks														
				Α	pproa			ankment						
						Now	Explanation of Condition							
Horizontal Alignment				7	7	Curve sag & limited site distance. No passing northboud.Intersection at NW.								
Vertical Alignme					7	7	140 passing northbodd.intersection at 1444.							
Roadway Width (m) 11.400			11.400											
Embankment					7	7								
Sideslope (:	1)		3.0											
(Height of Cov	er(m) :	: 10)												
Guardrail (Y/N)			Yes											
Approach Road	l / Eml	bankment	General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now		ation of	Condi	tion				
Direction			·		E									
End Treatment (Others, None)	Concre	ete, Steel,	CONCRETE				1							
Headwall					Х	X								
Collar				5	5	Spalling on N. collar.								
Wingwalls					X	X	 							
(Shape :)														
Cutoff Wall				N	N									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76028 -1 Bridge Culvert

Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		N	N	Perforated in floor(50x100mm)-24-Jul-2009							
Heaving (mm) 100				Under ice/water							
Invert Above/Below Stream Bed	BELOW			Couldn't tell due to snow cover.							
Above/Below (mm)	600										
Scour Protection		5	N								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 400)											
Scour/Erosion		5	N								
Beavers (Y/N)	No										
Upstream End General Rating		3	3	GR carried forward.							
		Brid	dge Cu	lvert Barrel							
Culvert Component		Last		v Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm									
Barrel Last Accessible Date	24-Jul-2009			Ice 1.5m d/s. and ice 2.4m u/s from crown.							
Special Features											
Special Feature		N	7	Near outlet end shotcrete clips placed but no shotcrete-none required.							
(Type : SHOTCRETE BEAM)											
Special Feature											
(Type:)											
Roof	1	7	7	Couldn't measure due to ice.							
Measured Rise (mm)				Shape looked ok - est. sag.							
Measured At Ring No.											
Sag (mm)	89										
Percent Sag 2											
Sidewall		6	6	Could only measure to ring 22 due to ice height.							
Measured Span (mm)	3518										
Measured At Ring No.	18										
Deflection (mm)	76										
Percent Deflection	2										
Floor	0	N	N								
Bulge (mm)	0										
Measured At Ring No.	22 Yes										
Abrasion (Y/N)	res			lease actual to view 00							
Circumferential Seams	0	N	5	Inspected to ring 22							
Separation (mm)	0	•	-								
Longitudinal Seams	0	N	5	Inspected to ring 22							
Total No. of Cracked Rings Total No. of Rings with Two	0			1N stagger.							
Cracked Seams				-							
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N)	No										
Longitudinal Stagger (Y/N) Yes											
Coating			N	Scaling below 10 o'clock, due to soil side corrosion24-Jul-2009							
Corrosion By Soil (Y/N)	Yes										
Corrosion By Water (Y/N)	Yes										
Camber POS/ZERO/NEG	NEG										
Ponding (Y/N)	No										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel							
Culvert Component				Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 3495	, Rise (mm): 3854, Type: SPE)							
Fish Passage Adequacy		4	4	Outlet. 1.0m above s/b.							
Baffle		X	X								
(Туре :)											
Waterway Adequacy		4	4	Scour d/s end.							
Icing (Y/N) No											
Silting (Y/N) No											
Drift (Y/N)	No			1							
Barrel General Rating		N	5								
C C											
Downstream End											
Culvert Component		_	Now	Explanation of Condition							
Direction		W		-							
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall		X	Х								
Collar		X	X								
Wingwalls		X	X								
(Shape :)											
Cutoff Wall			Х								
Bevel End		5	5	Sides pushed in at top.							
Heaving (mm)	0										
Invert Above/Below Stream Bed	ABOVE										
Above/Below (mm)	1000										
Scour Protection		4	4	The streambed rock was too small and is rolled downstream05-Ap							
(Type : RIP RAP)				2011 Snow covered							
(Avg. Rock Size(mm) : 400)				Scour hole 8m W x 6m L d/s.							
Scour/Erosion			4	Scour hole 8m wide x 6m longphoto							
Beavers (Y/N)	avers (Y/N) No										
Downstream End General Ratin	ng	4	4								
		S	structu	re Usage							
			Now								
Channel (U/S and D/S)											
Alignment		7	7								
Bank Stability			6								
HWM (m below Top of Culvert)				HWM not visible.							
Drift (Y/N) No											
Channel Bottom DEGRADING Degrading/Aggrading											
Beavers (Y/N) No											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·										
Channel General Rating			7								

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comm	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No(%)	ow)	55.6/55.0	6 Sufficiency Rating (Last/Now (%)	v) 4	3.9/43.4	Est. Repl. Yr	2017	Maint. Red	Maint. Reqd. (Y/N)		
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Brian P	ientsch	Pre	Assistant's Name Lisbeth Medina							
Next Inspection Date 11-		-2014	Pre	evious Ir	s Inspection Date 05-Apr-2011						
Inspection Cycle (Default) (months) 21											
Comment											