Bridge Culvert Inspection														
Bridge File Number 71646 -1 Bridge Culvert					Form 7	уре		CUL1						
Year Built	Built 1980					Lot No.			2					
Bridge or Town Name TANGENT					Inspector Name			Russel Vanderschaaf						
			RDER TRIBUTARY TO SMOKY 8.10.58.5.1, WATERCRS-ST				Inspector Class			BR CLS B				
						Assistant Name								
Located On 740:02 C1 9.282 Water Body Cl./Year						Assistant Class								
Navigabil. Cl./Y							Inspection Date		08-Nov-2011					
Legal Land Loc		NIM SE	C 33 TWP 78 R	CE 24 W	/5N/I		Data Entry By			Theresa Lacusta				
Longitude, Latit			:28, 55:48:24	GL 24 VV	JIVI		Data E	Data Entry Date		14-Dec-2011				
-			<u> </u>				Reviewer Name		Eric Carcoux					
Road Authority Alberta Tr Contract Main. Area CMA03			Transportation (AIT)				Review Date			12-Dec-2011				
Clear Roadway		8.5 /					Dept. Reviewer Name			Steve Pasquan				
AADT/Year	JOKEW		10 (0)				Dept. Review Date		10-Jan-2012					
Road Classifica	otion	RCU-20	010 (A)				Follow	-Up By						
Detour Length		100	<del>)9-110</del>											
Bridge Culvert														
Number of Culv			1											
Pipe #	Barrel		Span	Rise (or	Dia.)	a.) Type		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		2610	2877		SPE		70.1		152X51	3.0	ELLIPSE		
Special Features					<u> </u>		1.0		1.027.01	10.0	, ===:: 0=			
Special Feature		ment												
					Uti	lities (L	ocated	at)						
Utility Attachme	ents								I					
Telephone							Gas							
Power O/H East of highway & crosses hwy.					Munici									
Others						Proble	m (Y/N)	No						
Remarks														
						proach Road / Embankment  Last Now Explanation of Condition								
Linda and all Alimona and				_			On the start of an S curve.							
Horizontal Alignment			5	6	Mild ris	start of a se on S ap	n S cu oproac	rve. h. No passing						
Vertical Alignment				6	0	SBL south.								
						Deline	ator posts	install	ed.					
Roadway Width (m) 8		8.500												
Embankment					N	7								
Sideslope (	_:1)		3.0											
(Height of Co	ver(m):	<b>9</b> )												
Guardrail (Y/N)			No											
Approach Roa	d / Emb	oankmer	nt General Rati	ing	5	6								
						Upstre	am End							
Culvert Component		Last	Now		Explanation of Condition									
Direction			W											
End Treatment Others, None)	(Concre	ete, Stee	I, CONCRETE											
Headwall			9	8										
Collar				N	8									

Outroot Octobron				am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape: )			1	
Cutoff Wall		N	N	
Bevel End		N	7	
Heaving (mm) 400				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	Due to poor alignment south side of pipe appears to be subject to
(Type:)		<u> </u>		scaling04-Feb-2009
(Avg. Rock Size(mm):)				
Scour/Erosion			5	No problems evident
Beavers (Y/N)	Yes			Blocking 40% of culvert capacity
Upstream End General Rating		9	7	
		- Dr.	dae Cu	lyort Parrol
Culvert Component				Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Codo: MAIN S			·
Barrel Last Accessible Date	08-Nov-2011	pair (iiii	1). 2010	, rase (min). 2011, Type. Or L)
Dairei Last Accessible Date	00-1100-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2847			
Measured At Ring No.	9			
Sag (mm)	30			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2647			
Measured At Ring No.	9			
Deflection (mm)	37			
Percent Deflection	2			
Floor		9	7	
Bulge (mm)	0			
Measured At Ring No.	9			
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0		-	1
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0		1	1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				2 clalock goom improper less 9 clalock
Proper Lap (Y/N)	No			2 o'clock seam inproper lap & 8 o'clock
Longitudinal Stagger (Y/N)	No			
Coating	-	5	5	Superficial rust on floor.
Corrosion By Soil (Y/N)	No		, ,	- Supermond rate of floor.
Corrosion By Water (Y/N)	Yes			-
Conosion by Water (1/N)	1 52			2 of 5

71646 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component				Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı): 2610	, Rise (mm): 2877, Type: SPE)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N) Yes									
Fish Passage Adequacy			4	Beaverdam in u/s bevel.					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		6	3	Beaverdam upstream end blocking ~40%photo					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	Yes		_						
Barrel General Rating		7	7						
		D	ownst	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	X						
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End		N	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	200								
Scour Protection		N	4	Banks sloughing.					
(Type:)									
(Avg. Rock Size(mm):)									
Scour/Erosion		N	4	Erosion and sloughing.					
Beavers (Y/N) No									
Downstream End General Rati	ng	4	4						
		5	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			4	Channel curves south at outlet. Vertical banks & slumps d/s					
Bank Stability			4	Sloughing bank					
HWM (m below Top of Culvert) 1.3			1	Staining on sidewalls04-Feb-2009					
Drift (Y/N)	Yes			3					
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N) Yes									

Structure Usage								
	Last	Now	Explanation of Condition					
(Fish Compensation Measure 1 : NONE	≣)							
(Fish Compensation Measure 2 : NONE								
Channel General Rating		4						

		••••							
_			ce Recommendat						
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2011	Remove u/s beaverdam in bev	el						
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 77.8/77	77.8/77.8 Sufficiency Rating (Last (%)		3.8/50.2	Est. Repl. Yr	2024 Maint. Re		qd. (Y/N)	Yes
Special Monitor d/s scour a Comments for Next Inspection	nd erosion.		Į	Department Comments					
Maintenance Reviewed By		1	Date		Е	stimated Total	0		
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name		Previous As	ssistant's Name	Jordan Evans					
Next Inspection Date	08-Feb-2015		Previous In:	Inspection Date 04-Feb-2009					
Inspection Cycle (Default) (months)	39			·	· -				
Comment									