Bridge Culvert Inspection															
Bridge File Number 75838 -1 Bridge Culvert						Form Ty	/pe		CUL1						
Year Built	-				Lot No.			3							
Bridge or Town Name TROCHU			HU			Inspector Name			Dave Lam						
Located Over TRAIL-AN			ANIMAL, OVER SP			Inspector Class			BR CLS A						
Located On	C1 17.033				Assista	nt Name									
Water Body Cl./Year							Assista	nt Class							
Navigabil. Cl./Year			1				Inspection Date 14-Jul-2011								
Legal Land Location NW SEC		C 23 TWP 33 RGE 22 W4M				Data Er	Data Entry By Marcia Chavez								
Longitude, Latitude -113:01:4		:42, 51:50:46				Data Er	try Date	;	16-Aug-2011						
Road Authority Alberta		Alberta	erta Transportation (AIT)					Reviewer Name John O'Brien							
Contract Main. Area CMA20		0					Date		28-Jul-2011						
Clear Roadway/Skew 8.1 /									Name	Andrew Smikles					
AADT/Year		440 / 20	2010 (A)					eview D	ate	29-Aug-2011					
Road Classifica	ation	RCU-20	08-110				Follow-Up By								
Detour Length	(km)	39													
Bridge Culvert	Inform	ation													
Number of Culv	/erts		1								1				
Pipe #	Barrel		Span	Rise	(or Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		1724	1901		MPE		18.3		68X13	2.8,2.8,2.8	ELLIPSE			
Special Feature	es		CONC FLC	OOR											
Special Feature	es Comr	ment	5% VE. An	nular type	CSP.										
					De	otina lr	formati	- 12							
Poquired Vort	Cloaran	co Posti	ng (m)		PO	sung ii	nonnaut	JI							
Required Vertical	Clearai))												
Posted: Long NP On Pridag (m) In Advance (V/A) Long CD On Pridag (m) In Advance (V/A)															
Pomarka Not required															
Remarks	NOLIE	quireu.			Uti	lities (L	ocated	at)							
Utility Attachme	ents					`									
Telephone	South	side.					Gas								
Power							Municip	al							
Others							Problem	ח (Y/N)	No						
Remarks															
					Approad	h Road	d / Emba	nkment							
					Last	Now	Explana	ation of	Condit	tion					
Horizontal Aligr	nment				5	5	In curve. No passing EB.								
Vertical Alignm	ent				6	6									
Roadway Width	n (m)		8.100												
Embankment					4	4	Erosion	Erosion channel at SE sideslope, minor.							
Sideslope (_:1)		2.9				Wide trans. crack in ACP over pipe (photo).								
(Height of Co	ver(m) :	0.7)													
Guardrail (Y/N)		Yes					N side only.								
Approach Road / Embankment General Rating			5	5											
Unstream End															
Culvert Component			Last		Now	Explana	Explanation of Condition								
Direction					S	S									
End Treatment (Concrete, Steel, NONE Others, None)															
Headwall				Х	Х										
Collar			X	Х											

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Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Wingwalls			X						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		Х	Х						
Heaving (mm) 0									
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	2000								
Scour Protection		Х	Х						
(Туре :)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		Х	X						
Beavers (Y/N)	No								
Upstream End General Rating		7	7						
		Brid	dae Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1. Primary Span. Locat	tion Code: MAIN. Spa	n (mm): 1724	Rise (mm): 1901. Type: MPE)					
Barrel Last Accessible Date	14-Jul-2011		/						
Special Features									
Special Feature		N	N	Silt covered.					
(Type : CONC FLOOR)			1						
Special Feature									
(Type:)			_						
Roof		4	4	Min. rise from concrete 1705mm.					
Measured Rise (mm)				- Roof damaged by mower; large tear (photo) at S end.					
Measured At Ring No.				-					
Sag (mm)				-					
Percent Sag									
Sidewall	1	5	5	Max. span 1760mm 2.9%.					
Measured Span (mm)	1760			Midspan.					
Measured At Ring No.				2 1%					
Deflection (mm) 36				-					
Percent Deflection	2		1						
Floor		N	5	Concrete floor.					
Bulge (mm)	0			up the sides. No solf spots. Culvert squeezed up when installed.					
Measured At Ring No.	Jeasured At Ring No.			Corroded steel rated as part of the floor.					
Abrasion (Y/N)	No		1						
Circumferential Seams		7	7	As installed.					
Separation (mm)	50		1						
Longitudinal Seams		Х	5	Anular type CSP with rivets.					
Total No. of Cracked Rings 0				-					
Total No. of Rings with Two Cracked Seams				-					
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N) Yes									
Longitudinal Stagger (Y/N) Yes									
Coating			3	Heavy rust @ concrete floor area. Extensive flaking.					
Corrosion By Soil (Y/N) Yes				There is considerable rusting from road sanding & salt. Where culvert extends from the cover of the slopes					
Corrosion By Water (Y/N)	Yes								

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Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cul	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 1724	, Rise (mm): 1901, Type: MPE)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N) No									
Fish Passage Adequacy		Х	X						
Baffle		Х	X						
(Туре:)			1						
Waterway Adequacy		8	8	(Outsides of culvert both ends. Minor. 16Mar2005).					
Icing (Y/N)				-					
Silting (Y/N)	Yes			-					
Drift (Y/N)	No		_						
Barrel General Rating		3	4						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		Х	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE			Ground slopes away from pipe.					
Above/Below (mm)	3000								
Scour Protection		X	Х	Minor erosion channel at SE.					
(Туре :)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		X	X						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
		S	structur	re Usage					
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment		8	8	For livestock.					
Roadway Surface		5	5						
(Type : ACP)									
Icing (Y/N)	No								
Traffic Safety Features		6	6						
Туре	WIRE FENCES								
Lighting		8	8	Signs of leakage at seams of culvert, minor.					
Barrel Leakage (Y/N)	No								

Structure Usage										
		Last	Now	Explanation of Condition						
Drainage			7							
Structure In Use (Y/N) Yes										
Grade Separation General Ration	ng	7	5							

Maintenance Recommendations												
Inspector Recommendations			Year	Inspector Comments		Department Comn	nents	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS	3											
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION			2011	Seal ACP transverse crack.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			33.3/44.4	4 Sufficiency Rating (Last/N (%)	low)	56.1/59.4 Est. Repl. Yr		2020	Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next InspectionCorrosion on soil side due to soil conditions which may not be related to road maintenance. If metal softens or perforated, repair or replace culvert. No action at this time. (AT to set inspection cycle due to coating condition. 19Dec2001. AT comment).				oad nent).	Department Comments							
Maintenance Reviewed By						Date		E	Estimated Total	0		
Proposed Long-Term Strategy 200		2004.05	2004.05.30Monitor on normal BIM. Culvert should be okay until 2018. Monitor cattlepass useage.									
On 3-Year Program (Y/N) N												
Proposed Action 2006		2006.10	2006.10.25 Check usage in two years.									
Previous Inspector's Name Dave		Dave La	ave Lam			Previous Assistant's Name						
Next Inspection Date 14		14-Oct-2014			Previous	revious Inspection Date 16-Mar-2005						
Inspection Cycle (Default) (months) 39		39										
Comment												