Bridge Culvert Inspection													
Bridge File Number 76736 -1 Bridge Culvert						Form Type		CUL1					
Year Built 1969						Lot No.		4					
Bridge or Town Name GRANDE CACHE						Inspector Name		Russel Vanderschaaf					
Located Over CARCONTE CREEK, 8.10.58.31				2.6,		Inspector Class		BR CLS B					
WATERCRS-ST						Assistant Name							
Water Body CL/Y	′ear	5121.010				Assistant Class							
Navigabil CL/Yea	ar					Inspection Date		22-Aug-2012					
Legal Land Location NW/ SEC 7 TWP 57 RGE 7 W6M						Data Entry By		Theresa Lacusta					
Longitude Latitude -110:02:04 53:55:01						Data Entry Date		26-Sep-2012					
Road Authority Alberta Transportation (AIT)			(AIT)			Reviewer Name							
Contract Main, Area CMA05			()			Review Date		24-Sep-2012					
Clear Roadway/Skew 11 / -25 deg (I HF)				Dept. Reviewer Na			Name	Steve Pasquan					
AADT/Year	1,590 /	2011 (A)		Dep			Dept. Review Date		04-Jan-2013				
Road Classification	on RAU-2	11.8-110				Follow-Up By							
Detour Length (ki	m) 425												
Bridge Culvert I	nformation					1							
Number of Culve	rts	1											
Pipe # B	arrel	Span	Rise (or D	ia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	1AIN	2610	2077		SPE		28.7		152X51	2.8	ELLIPSE		
Special Features													
Special Features Comment													
							~						
Litility Attachmon	to			Uτ	lities (L	ocated	at)						
	S r/w					Gas							
Power						Municir							
Others	400/11101/00	11 IN 1/ W					Problem (Y/N) No						
Remarks							II (1/IN)						
Romanio			Apr	oroad	:h Road	l / Emba	nkment						
Last Now Explanation of Condition													
Horizontal Alignment				6	6	Road a	ccess im	mediat	ley west, curve	50m west.			
Vertical Alignment				7	7	ino passing westbound lane.							
Roadway Width ((m)	11.000											
Embankment				6	6	_							
Sideslope (:1	I)	3.0											
(Height of Cove	er(m) : 1)												
Guardrail (Y/N)		No											
Approach Road	/ Embankme	nt General Rat	ing	6	6								
					Upstrea	am End							
Culvert Component L					Now	Explan	ation of	Condit	ion				
Direction			1	N									
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				Х	X								
Collar				Х	X								
Wingwalls				Х	X								
(Shape :)													

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			Upstre	am End					
Culvert Component	Last	Now	Explanation of Condition						
Cutoff Wall		X	Х						
Bevel End			6						
Heaving (mm)	Heaving (mm) 200								
Invert Above/Below Stream Bed				_					
Above/Below (mm)	0								
Scour Protection		N	6	Mostly grown over.					
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		N	6						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Bri	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp	oan (mm	n): 2610), Rise (mm): 2077, Type: SPE)					
Barrel Last Accessible Date	22-Aug-2012								
Special Features									
Special Feature									
(Туре :)				_					
Special Feature									
(Type :)									
Roof		4	4	3 Damaged roof plates from construction. No indentations in					
Measured Rise (mm)	2787			the asphalt. Roof dents are isolated and one has 3 large tears (Measured 2628 from floor to worst dent)					
Measured At Ring No.	6								
Sag (mm)	90								
Percent Sag	3								
Sidewall		7	7						
Measured Span (mm)	2680								
Measured At Ring No.	6								
Deflection (mm)	70								
Percent Deflection	2								
Floor		7	7						
Bulge (mm)	0								
Measured At Ring No.	5								
Abrasion (Y/N)	Yes								
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		7	7						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				1N stagger.					
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	Yes								
Coating		5	5						
Corrosion By Soil (Y/N)	No			Pitting & scaling rust on bottom plates.					
Corrosion By Water (Y/N)	Yes								

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Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm): 2610	, Rise (mm): 2077, Type: SPE)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N) No									
Fish Passage Adequacy			7						
Baffle		Х	X						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S		-					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall			X						
Collar			X						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall			X						
Bevel End		5	5	E. side of bevel deflecting inward					
Heaving (mm)	150			300mm.					
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	100								
Scour Protection		N	5	Mostly sandstone.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		N	5						
Beavers (Y/N)	No								
Downstream End General Rati	ng	5	5						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)	·								
Alignment		8	8						
				D/S					
Bank Stability	Bank Stability		8						
HWM (m below Top of Culvert)				Hwm not visible.					
Drift (Y/N) No									
Channel Bottom DEGRADING Degrading/Aggrading				D/S					
Beavers (Y/N) No									

Structure Usage									
	Last	Now	Explanation of Condition						
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 : NONE)									
Channel General Rating		8							

Maintenance Recommendations											
Inspector Recommendations		Year	Inspecto	or Comments		Department Con	nments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL R											
REMOVE DRIFT ACCU	MULATION										
INSTALL CONCRETE/S	STEEL LINING										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition R (%)	44.4/44.	4	Sufficiency Rating (Last/I (%)	Now)	55.4/55.4	Est. Repl. Yr	2025	Maint. Red	qd. (Y/N)	No	
Special Comments for Next Inspection Monitor floor rust measurement at worst dent. Consider abrasion plates-May25, 2007.					/lay25,	Department Comments					
Maintenance Reviewed					Date			Estimated Total	0		
Proposed Long-Term St											
On 3-Year Program (Y/N											
Proposed Action											
Previous Inspector's Name Russ		Russel Vanderschaaf			Previous Assistant's Name						
Next Inspection Date 22		22-May-2014				Previous Inspection Date 18-Nov-2010					
Inspection Cycle (Default) (months) 21											
Comment											