					Brida	e Culve	ert Inspe	ction						
Bridge File Num	nber	80697 -	1 Bridge Culve	rt	Bridg	o ourre	Form Ty			CULM				
Year Built		1986					Lot No.		4					
Bridge or Town Name GRANDE CACHE							Inspector Name		Russel Vande	erschaaf				
Located Over	Hamo		TARY TO SMO		8 10	58 29	Inspector Class		BR CLS B					
		WATEF	TP2-PT				Assistant Name			DICOLOD	BR CLS B			
Located On		40:36 C	21 28.015				Assistant Class							
Water Body Cl./	Year						Inspection Date		23-Aug-2012					
Navigabil. Cl./Ye	ear						Data Entry By		Theresa Lacu	sta				
Legal Land Location NW SEC 3 TWP 59 RGE 7 W6M					Λ		Data Entry Date			26-Sep-2012				
Longitude, Latit	ude	-118:57	':46, 54:04:32				Reviewer Name			Eric Carcoux				
Road Authority		Alberta	Transportation	(AIT)			Review Date			24-Sep-2012				
Contract Main.	Area	CMA05	;						000		2			
Clear Roadway/	/Skew	10.2/0	deg.					eview Date		Steve Pasqua 07-Jan-2013				
AADT/Year			2011 (A)				· ·		e	07-Jan-2013				
Road Classifica	tion		11.8-110				Follow-l	эр ву						
Detour Length (km)	60												
Bridge Culvert							1			1				
Number of Culv			2											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2430		SP		51.8		152X51	3.0	ROUND		
	MAIN		-	2430		SP		44.5		152X51	3.0	ROUND		
Special Feature														
Special Feature		ment												
					Ut	ilities (L	_ocated a	at)						
Utility Attachme	nts													
Telephone							Gas							
Power						Municip	al							
Others							Problem	n (Y/N)	٥V					
Remarks														
				A	oproa	ch Road	d / Emba	nkment						
					Last	Now	Explana	ation of C	ondi	tion				
Horizontal Align	ment				8	8	CULVERTS ARE SPACED 70m APART							
Vertical Alignme	ent				8	8	Hill to the East. Curve to the West.							
Roadway Width	(m)		10.200											
	. ,													
Embankment					8	8	Starts a	t 5:1.						
Sideslope (:1)		4.0				_							
(Height of Cov	ver(m) :	5.2)												
Guardrail (Y/N)			No											
Approach Road	d / Emł	bankme	nt General Rat	ing	8	8								
						Upstrea	am End							
Culvert Compo	onent				Last			ation of C	ondi	tion				
(Pipe # : 1, Sp a		e: Prima	ary Span)											
Direction					N		West pi	be.						
End Treatment Others, None)	(Concre	ete, Stee	, STEEL											
Headwall					Х	Х								
Collar					^	^								

Alberta Transportation

Last X X	Now	Explanation of Condition
	Х	
	X	
X		
X		
	X	
N	6	
N	6	50% sandstone, mostly grown over.
N	6	
6	6	
Brid	dge Cu	lvert Barrel
Last	Now	Explanation of Condition
		, Rise (mm): 2430, Type: SP)
		West pipe.
7	7	
7	7	
N	7	
8	8	
8	8	
		1
		1
	N Image: Normal system of the syste	N 6 6 6 Bridge Cu Last Last Now MAIN, Span (mm): 12 12 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8

Alberta Transportation

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span):	, Rise (mm): 2430, Type: SP)
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
			ownet	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	(Snan)	Last		
Direction	Opanij	S		West culvert.
End Treatment (Concrete, Steel,	STEEL	3		
Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		N	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	7	Mostly grown.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	7	
Beavers (Y/N)	No		1	
Downstream End General Ratin	ng	7	7	
			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction	/	N		East culvert.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	I	Х	X	
Collar		X	X	

	Upstream End									
Culvert Component		Last		Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Wingwalls		Х	Х							
(Shape :)		1								
Cutoff Wall		Х	Х							
Bevel End		X	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	900		1							
Scour Protection		N	7	Grown over.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Upstream End General Rating		7	7							
		-	<u> </u>							
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2430, Type: SP)						
Barrel Last Accessible Date	23-Aug-2012			East						
Special Features										
Special Feature										
(Туре :)				-						
Special Feature										
(Туре :)			_							
Roof	1	8	7	No rise measurements due to silt and ice on floor.						
Measured Rise (mm)				Shape looks good.						
Measured At Ring No.	6									
Sag (mm)	15			Est. sag						
Percent Sag	1									
Sidewall		8	7							
Measured Span (mm)	2443									
Measured At Ring No.	6									
Deflection (mm)	13									
Percent Deflection	1									
Floor		N	N	Silt on floor.						
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)	No			1						
Circumferential Seams	-	N	7							
Separation (mm)	0		,							
Longitudinal Seams	v	N	7							
	0	IN	1							
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)	No]						

Alberta Transportation

		Brie	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2430, Type: SP)				
Coating		N	7					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	No							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		8	7					
Baffle		N	N					
(Type :)								
Waterway Adequacy		6	6					
Icing (Y/N)	No			Approx. 1.0m of silt through out pipe.				
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating		N	7					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Direction		S		East pipe.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar			Х					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		Х	Х					
Bevel End		N	7					
Heaving (mm)	0		_					
Invert Above/Below Stream Bed								
Above/Below (mm)	1000							
Scour Protection		N	7	Grown over.				
(Type : RIP RAP)		1	-					
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		N	7					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	7					
			Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7	Makes gradual bends u/s of E. pipe.				
Bank Stability		8	8					
HWM (m below Top of Culvert)	1.8			Silt deposit line u/s end of pipe. 2004-04-11				
Drift (Y/N) No								

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading				Stable Cutting present-May 25, 2007					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

			Maintenance Re	commend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Com		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	FF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	w)	77.8/77.8	8 Sufficiency Rating (Last/N (%)	low) 7	70.1/70.0 Est. Repl. Yr 203 ⁻			Maint. Reqd. (Y/		No
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	Russel	Vanders	chaaf	Previous /	s Assistant's Name					
Next Inspection Date 23-M		/-2014		Previous I	s Inspection Date 19-Nov-2010					
Inspection Cycle (Default) (months)	21									
Comment										