					Bridg	e Culve	ert Inspe	ction					
Bridge File Number 79223 -1 Bridge Culvert			rt	Fo		Form Ty	Form Type		CULM				
Year Built 1980							Lot No.		4				
Bridge or Town Name MORLEY							Inspector Name		Garry Roberts				
Located Over BATEMA			EMAN CREEK, 2.13.43.7, WATERCRS-				Inspecto	nspector Class BR CLS A					
Located On 68:04 C1			C1 17.536				Assistant Name						
Water Body CI./Year							Inspection Data			00.4			
Navigabil. Cl./Year								Doto Entry Dy		28-Aug-2012			
Legal Land Loc	ation	SW SE	C 18 TWP 24 R	GE 6 W5	M		Data Entry Data						
Longitude, Latitude -114:49:40			):40, 51:02:41				Data Er	itry Date		Zo-Sep-2012			
Road Authority Alberta		Transportation	(AIT)			Review Date		31-Aug-2012					
Contract Main. Area CMA2		CMA28	28					Dept. Reviewer Name					
Clear Roadway	/Skew	12.2 / 7	0 deg. (RHF)				Dept. Reviewer Name		02-Oct-2012				
AADT/Year		310 / 20	011 (A)				Follow-I		0	02-001-2012			
Road Classifica	ation	RAU-21	11.8-110					ор Бу					
Detour Length	(km)	16											
Bridge Culvert	Inform	nation											
Number of Culv	/erts		2							I	1	1	
Pipe #	Barrel		Span	Rise (or	Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2607	2881		SPE		141.6		152X51	4.0	ELLIPSE	
2	MAIN		-	1219		MP		63		68X13	2.8	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
					4	lition /l	opotod	ot)					
Litility Attachme	onte				01	nues (L		at)					
Telephone							Gas						
Power							Municin	al					
Others							Problem	n (Y/N)	No				
Remarks													
	Approach Road / Embankment												
					Last	Now	Explana	ation of C	ondi	tion			
Horizontal Alignment			5	5	On Sou	th curve.							
Vertical Alignme	ent				5	5	oloop grade.						
Roadway Width	ר (m)		12.200										
Embankment					5	5							
Sideslope (	_:1)		1.5				1						
(Height of Co	ver(m) :	: 6)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Eml	bankme	nt General Rat	ing	5	5							
						Unotro	om End						
Culvert Compo	onent				Last	Now	Explana	ation of C	ondi	tion			
(Pipe # 1, Sp	an Type	e: Prima	ary Span)		Last	1101	Explant		ona				
Direction N													
End Treatment (Concrete, Steel, CONCRETE					-								
Headwall			Х	Х									
Collar			Х	Х									
Wingwalls				Х	Х								
(Shape : )													

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	y Span)		_							
Cutoff Wall			X							
Bevel End			7							
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	150									
Scour Protection		7	7							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating		7	7							
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	): 2607	7, Rise (mm): 2881, Type: SPE)						
Barrel Last Accessible Date	28-Aug-2012									
Special Features										
Special Feature				_						
(Type : )										
Special Feature										
(Type : )										
Roof		7	7	H2O leaking through bolt at East sidewall and ring #6 from D/S-						
Measured Rise (mm)	2825			spring or piping staining.						
Measured At Ring No.	21			Est.						
Sag (mm)	56			-						
Percent Sag	1									
Sidewall		7	7	Install damage @ ring 7 and Ring 25, East side - welded repair.						
Measured Span (mm)	2670			-						
Measured At Ring No.	21			-						
Deflection (mm)	Deflection (mm) 63									
Percent Deflection	2									
Floor		N	7							
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)	No									
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)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating		5	5	Superficial rusting on lower areas. Soil and water eff coming through						
Corrosion By Soil (Y/N)	Yes			bolt holes @ U/S.						
Corrosion By Water (Y/N)	Yes			1						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 2607	, Rise (mm): 2881, Type: SPE)						
Camber POS/ZERO/NEG	POS									
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		Х	X							
(Туре : )										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		7	7							
		D	ownstr	eam End						
Culvert Component	-	Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	v Span)									
Direction		S								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar			X							
Wingwalls		X	X							
(Shape : )		1								
Cutoff Wall		X	X							
Bevel End		7	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	100									
Scour Protection		N	5	Minor scour 300mm DP just off bevel-rock lined.						
(Type : NATURAL)										
(Avg. Rock Size(mm) : 200)			1							
Scour/Erosion		N	5							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	7	5							
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		N		North.						
End Treatment (Concrete, Steel, Others, None)	STEEL			20m West of SPE.						
Headwall		X	Х							
Collar		Х	Х							
Wingwalls		X	X							
(Shape : )										
Cutoff Wall		X	X							

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	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	2500								
Scour Protection		7	7						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating	1	7	7						
Culuert Common on (		Brid	dge Cu	Ivert Barrel					
(Dipo # : 2 Secondary Sport	Code: MAIN			Explanation of Condition					
Pipe # . 2, Secondary Span, Lo		v, Span (r	nm):	, Rise (mm): 1219, Type: MP)					
Barrei Last Accessible Date	06-Jan-2011			Not accessible due to mud and standing water.					
Special Features	·								
Special Feature									
(Type : )									
Special Feature									
(Туре : )									
Roof		6	N	P.R 6.					
Measured Rise (mm)	1180								
Measured At Ring No.	8								
Sag (mm)	39								
Percent Sag	3								
Sidewall		7	N	P.R 7.					
Measured Span (mm)	1225								
Measured At Ring No.	7								
Deflection (mm)									
Percent Deflection									
Floor		6	N	P.R 6.					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		4	4	Separation and minor voids at last seam at d/s- carried forward.					
Separation (mm)	320								
Longitudinal Seams		X	Х						
Total No. of Cracked Rings									
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				_					
Proper Lap (Y/N)				_					
Longitudinal Stagger (Y/N)									
Coating		6	N	(Minor superficial) P.R 6.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1219, Type: MP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		7	5							
Baffle		X	Х							
(Type : )										
Waterway Adequacy		7	7							
Icing (Y/N)	No			Mud and silt full length						
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		6	N	P.R 6.						
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		S		South.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		Х	X							
Wingwalls		X	X							
(Shape : )										
Cutoff Wall	Cutoff Wall									
Bevel End		6	6							
Heaving (mm)	150									
Invert Above/Below Stream Bed	ABOVE			Outlet drains to ditch, not channel.						
Above/Below (mm)	300		1							
Scour Protection		6	6							
(Type : NATURAL)				-						
(Avg. Rock Size(mm) : 200)			1							
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Downstream End General Ration	ng	6	6							
		S	structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)		-	2							
Alignment		6	6	Bends @ D/S.						
Bank Stability		6	6							
HWM (m below Top of Culvert)	0.6			No visible HWM.						
Drift (Y/N)	No									
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)		1							
Channel General Rating		6	6							

Maintenance Recommendations												
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/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	66.7/77.	8 Sufficiency Rating (Last/N (%)	ow) 7	<b>70.2/74.1</b> Est. Repl. Yr 2033		2033	Maint. Reqd. (Y/N)		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 Garry		Roberts		Previous Assistant's Name								
Next Inspection Date 28-M		y-2014		Previous I	vious Inspection Date 06-Jan-2011							
Inspection Cycle (Default) (months)	21											
Comment												