				Bridg	e Culve	ert Inspe	ection					
Bridge File Number 78012 -1 Bridge Culvert			Form Type			CUL1						
Year Built	1982					Lot No.		3				
Bridge or Town Na	me VERMILION				Inspector Name			Owen Salava				
Located Over TRIBUTARY TO GRIZZLY BEAR				R CREEK,		Inspector Class		BR CLS A				
5.11.2, WATERCRS-ST						Assistant Name						
Located On 619:06 C1 8:973						Assistant Class						
Navigabil CL/Year						Inspection Date			07-Nov-2012			
Legal Land Location SE SEC 25 TWP 48 RGE 6 W4N				M		Data E	ntry By	Marcia Chavez				
Longitude, Latitude	ude. Latitude -110:44:55, 53:09:41					Data Entry Date 21-Nov-2012						
Road Authority	toad Authority Alberta Transportation (AIT)					Reviewer Name John O'Brien						
Contract Main. Area CMA15						Review	Date	N	15-Nov-2012			
Clear Roadway/Skew 8.9 /					Dept. F	keviewer	Name	Andrew Smikles				
AADT/Year 510 / 2011 (A)					Eollow		ale	20-INOV-2012				
Road Classification	RCU-2	09-110				FOIIOW-	ор Бу					
Detour Length (km)) 6					-						
Bridge Culvert Inf	ormation											
Number of Culverts	6	1										
Pipe # Bar	rel	Span	Rise (or I	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape	
1 MA	IN	-	1800	MP			76		125X26	2.8	ROUND	
Special Features												
Special Features C	omment											
				114			c (1)					
Litility Attachments				01	incies (L	ocaleu	al)					
Telephone						Gas						
Power						Municir	ادر					
Others						Problem (Y/N) No						
Remarks						1 100101		110				
Annroach Road / Embankment												
				Last	Now	Explanation of Condition						
Horizontal Alignment			7	7	In sag	curve, lim	nited sig	ght distance Ea	st. No passing	Eastbound.		
Vertical Alignment			6	6								
Roadway Width (m)		8.900										
Embankment			8	8								
Sideslope (:1) 3.0												
(Height of Cover(m) : 7.3)											
Guardrail (Y/N) Yes					South shoulder only.							
Approach Road / Embankment General Rating			6	6								
					Upstre	am End						
Culvert Componer	nt			Last	Now	Explan	ation of	Condi	tion			
Direction				S		-						
End Treatment (Co Others, None)	oncrete, Stee	el, STEEL										
Headwall				Х	Х							
Collar			Х	Х								
Wingwalls		Х	X									
(Shape :)												
Cutoff Wall					X							

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Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	7	Poplar restricting entry - photo.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	300								
Scour Protection		N	N	Snow covered.					
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Upstream End General Rating	1	7	7						
		Brid	d <u>ge Cu</u>	Ivert Barrel					
Culvert Component	Culvert Component			Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm):	, Rise (mm): 1800, Type: MP)					
Barrel Last Accessible Date	07-Nov-2012			1885 rise, 1741 span. Possible 5% VE. Culvert shape is out of round, measurements consistent with 5% VE.					
Special Features			_						
Special Feature									
(Type :)			_						
Special Feature				_					
(Туре :)									
Roof		5	5	Ring 6 out of round. 20 degree off plumb. Top going to West.					
Measured Rise (mm)	1710								
Measured At Ring No.	6								
Sag (mm)	90								
Percent Sag	5								
Sidewall		6	6						
Measured Span (mm)	1870			Measured @ 45% angle.					
Measured At Ring No.	6								
Deflection (mm)	70			3.9%					
Percent Deflection	3								
Floor		7	7						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Separation (mm)	35								
Longitudinal Seams		X	X						
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	1	6	6	Minor superficial rust along the floor.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

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Bridge Inspection & Maintenance System (Web 2005)

78012 -1 Bridge Culvert

		Bric	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 1800, Type: MP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	(Perched @ D/S - photo. 10Sep2006) - Snow covered.				
Baffle		X	Х					
(Туре :)			_					
Waterway Adequacy		5	5					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		5	5					
			ownet	zoam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	1	N						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall	1	Х	X					
Collar	Collar		X					
Wingwalls		X	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		7	7					
Heaving (mm)	100							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	300							
Scour Protection		N	N	(Riprap is on S/B. Bevel is perched & unsupported for 700mm -				
(Type : RIP RAP)				photo. 10Sep2006) - Snow covered.				
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		N	N	(Scour to NE - photo. 10/Sep/2006).				
Beavers (Y/N)	No							
Downstream End General Ratin	ng	4	4	G.R. carried over since 10Sep2006.				
		s	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		5	5					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

Inspector Recommendations Year Inspector Comments Department Comments Target Year Est. Cost Cat # SHOTCRETE REPAIRS 5m3 class 1 @ D/S, if not yet done. 5m3 class 1 @ D/S, if not			Maintenance Recomm	endations				
SHOTCRETE REPAIRS Image: Shot CRETE REPAIRS Image: Shot C	Inspector Recommendations		Inspector Comments	Department Commo	Target Year	Est. Cost	Cat #	
PLACE ADDITIONAL RIP RAP 2013 5m3 class 1 @ D/S, if not yet done.	SHOTCRETE REPAIRS							
REMOVE DRIFT ACCUMULATION Image: Constraint of the second of	PLACE ADDITIONAL RIP RAP	2013	5m3 class 1 @ D/S, if not yet done.					
INSTALL CONCRETE/STEEL LINING INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF INSTALL STRUTS IN	REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS INSTALL CONCRETE COLLAR/CUTOFF INSTALL CONCRETE COLLAR/CUTOFF Instance <	INSTALL CONCRETE/STEEL LINING							
INSTALL CONCRETE COLLAR/CUTOFF Image: Seams of the seam	INSTALL STRUTS							
REPAIR SEAMS 2013 Remove poplars around inlet. Image: Construction of the second	INSTALL CONCRETE COLLAR/CUTO	FF						
OTHER ACTION 2013 Remove poplars around inlet. Image: Construction of the poplar second inlet. Image: Construction of the poplar	REPAIR SEAMS							
OTHER ACTION OTHER ACTION Image: Constant of the second seco	OTHER ACTION	2013	Remove poplars around inlet.					
OTHER ACTION OTHER ACTION Image: Condition Rating (Last/Now) Structural Conditio	OTHER ACTION							
OTHER ACTION Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) 51.7/51.4 Est. Repl. Yr 2033 Maint. Reqd. (Y/N) Yes Special Comments for Next Inspection Monitor d/s erosion with photo looking u/s. Department Comments Comments Vertice Vertic	OTHER ACTION							
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) 51.7/51.4 Est. Repl. Yr 2033 Maint. Reqd. (Y/N) Yes Special Comments for Next Inspection Monitor d/s erosion with photo looking u/s. Department Comments Department Comments Vertice	OTHER ACTION							
Special Comments for Next Inspection Monitor d/s erosion with photo looking u/s. Department Comments	Structural Condition Rating (Last/No (%)	ow) 55.6/55	.6 Sufficiency Rating (Last/Now) (%)	51.7/51.4 E	Est. Repl. Yr 2033	Maint. Re	qd. (Y/N)	Yes
	Special Comments for Next Inspection	with photo lookii	ng u/s.	Department Comments				
Maintenance Reviewed By Date Estimated Total 0	Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy	Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	On 3-Year Program (Y/N)							
Proposed Action	Proposed Action							
Previous Inspector's Name Owen Salava Previous Assistant's Name	Previous Inspector's Name	Owen Salava	Previo	ous Assistant's Name	Assistant's Name			
Next Inspection Date 07-Feb-2016 Previous Inspection Date 27-Jan-2010	Next Inspection Date	07-Feb-2016	Previo	ous Inspection Date	Inspection Date 27-Jan-2010			
Inspection Cycle (Default) (months) 39	Increation Cycle (Default) (manthe)	20		· ·				
Comment	Inspection Cycle (Delauit) (months)	39						