					Bridg	e Culve	ert Insp	ection					
Bridge File Nur	mber	76790	rt			Form Type		CULM					
Year Built		2004					Lot No.		4				
Bridge or Towr	n Name	GUY					Inspector Name			Brian Pientsch			
Located Over		2ND O		ARY TO L			Inspector Class			BR CLS A			
		SMOK	(1 RIVER, 8.10.58.7.7.2, WATERCRS-				Assistant Name			Clem Guenette			
Located On	ated On 49:10 C1 21.059						Assista	ant Class		BR CLS B			
Water Body Cl	./Year						Inspec	tion Date		13-Dec-2012			
Navigabil, Cl./Y	Year						Data E	ntry By		Theresa Lacus	sta		
Legal Land Log	cation	NW SE	C 25 TWP 75 F	RGE 21 W	/5M		Data E	Data Entry Date 23-Jan-2013					
Longitude. Lati	itude	-117:07	7:53. 55:32:03				Reviev	ver Name		Eric Carcoux			
Road Authority	/	Alberta	Transportation	(AIT)			Reviev	v Date		09-Jan-2013			
Contract Main.	Area	CMA03	3				Dept. F	Reviewer N	lame	David Morrisor	ו		
Clear Roadway	v/Skew	13 /					Dept. F	Review Dat	e	21-Mar-2013			
AADT/Year	,	1,680/	2011 (A)				Follow	-Up By					
Road Classifica	ation	RAU-2	11.8-110										
Detour Length	(km)	3					-						
Bridge Culver	t Inform	ation											
Number of Cul	verts		3										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1650		SSP		32.5			12.7	ROUND	
2	MAIN	- 1650			SSP		32.5			12.7	ROUND		
3	MAIN	- 1650			SSP		32.2			12.7	ROUND		
Special Features													
Special Feature	es Comr	ment											
•													
					Uti	lities (L	ocated	at)					
Utility Attachme	ents						-						
Telephone		<u> </u>					Gas						
Power	7 wire	OH/ Ea	ist r/w				Munici	pal					
Others							Proble	m (Y/N) ∣i	NO				
Remarks				Δ.		h Dear	d / Emala	onkmont					
				A		Now	Evolar	ankment	ondi	ion			
Horizontal Alig	nment				g	9	слріаі		onan				
Vertical Alignm	nent				9	9	-						
Roadway Width	h (m)		13.000										
Embankment					q	q							
Sideslope (•1)		4.0		3	5							
(Height of Co	, over(m) :	1)											
Guardrail (Y/N))	- ,	No										
Approach Roa	ad / Emb	bankme	nt General Rat	ing	9	9							
						Unstre	am End	1					
Culvert Comp	onent				Last	Now	Explar	nation of C	ondi	ion			
Last Now Explanation of Condition													
(Pipe # : 1. Sn	onent oan Type	e: Prima	ary Span)										
(Pipe # : 1, Sp Direction	onent oan Type	e: Prima	ary Span)		E		North	ı - culv					
(Pipe # : 1, Sp Direction End Treatment Others. None)	ban Type	e: Prima	ary Span) el, STEEL		E		North	ı - culv					
(Pipe # : 1 , Sp Direction End Treatment Others, None) Headwall	ban Type	e: Prima	ary Span) el, STEEL		EX	X	North	ı - culv					

			Upstre	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1	_	1
Wingwalls		X	X	-
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400		_	
Scour Protection		N	N	Insufficient protected @ sides of bevel30-Apr-2009
(Type : RIP RAP)				Snow covered
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	N	Scour 2.4m(L) x 400mm (W) x 300mm (D) South side of bevel. Undermining 2.0m30-Apr-2009
Beavers (Y/N)	No			Snow covered.
Upstream End General Rating		4	4	GR carried over -30-Apr-2009
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ו):	, Rise (mm): 1650, Type: SSP)
Barrel Last Accessible Date	13-Dec-2012			1306mm ice to roof
Special Features	1			
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		N	7	
Measured Rise (mm)	1652			est. At C/I
Measured At Ring No.				
Sag (mm)	2			
Percent Sag				
Sidewall		N	7	At C/L
Measured Span (mm)	1670			
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection	1			
Floor		N	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		Х	Х	Welded seams
Separation (mm)	0			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76790 - 2 Bridge Culvert

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm)):	, Rise (mm): 1650, Type: SSP)
Coating		X	X	Scaling rust @ water line 500mm above floor.
Corrosion By Soil (Y/N)	No			Smooth wall pipe - no coating
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		N	7	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy	I	N	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		W		North- culv.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		N	N	Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Ratin	ng	8	8	GR carried over - 30-Apr-2009
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		Е		-mid culv.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		N	7	Based on 40% visiblity.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)			_	
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	N	Snow covered.
	1			
Beavers (Y/N)	No			
Unstream End General Rating		5	5	GR carried over -30-Apr-2009
		J	J	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı	mm):	, Rise (mm): 1650, Type: SSP)
Barrel Last Accessible Date	13-Dec-2012			(Mid culv.) - 1203mm ice to roof
Special Features				
Special Features				
(Type .)				
(Type.)		N	7	aat
Noopured Disc (mm)	1640	IN	1	est
	1040			At C/L
Measured At Ring No.	10			
Sag (mm)	1			
	1	N	7	
	4000	N	1	At C/L
Measured Span (mm)	1623			- inverd
Measured At Ring No.	07			
	27			-
	1			
Floor		N	N	Ice on floor
Bulge (mm)	0			
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	1	X	X	
Separation (mm)	0			
Longitudinal Seams	1	X	X	
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			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76790 - 2 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1650, Type: SSP)						
Coating		Х	Х	Scaling rust @ water line 600mm above floor.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
	1									
Ponding (Y/N)	No									
Fish Passage Adequacy		N	7							
Baffle		Х	Х							
(Туре :)										
Waterway Adequacy		N	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		N	7							
g			-							
		D	ownstr	eam End						
Culvert Component	<u> </u>	Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction	1	W		(West -mid culv.)						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall		X	X							
Collar		X	X							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	Х							
Bevel End		N	N	Snow covered.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	600									
Scour Protection		N	N	Snow covered.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 450)										
Scour/Erosion		N	N	Snow covered.						
Beavers (Y/N)	No									
Downstream End General Ration	ng	8	8	GR carried over-30-Apr-2009						
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 3, Span Type: Second	lary Span)									
Direction		Е		(South-Culv.)						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall	·	Х	Х							
Collar		Х	Х							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			1
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	7	Based on 40% visibilty
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			-
Above/Below (mm)	400			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	ocation Code: MAIN,	Span (ı	mm):	, Rise (mm): 1650, Type: SSP)
Barrel Last Accessible Date	13-Dec-2012			South 1253mm ice to roof
Special Features				
Special Feature				
(Туре :)				_
Special Feature				
(Туре :)				
Roof		8	7	Estimated due to ice.
Measured Rise (mm)	1667			At C/I
Measured At Ring No.				
Sag (mm)	17			
Percent Sag	1			
Sidewall		8	7	
Measured Span (mm)	1663			At C/I
Measured At Ring No.				
Deflection (mm)	13			
Percent Deflection	1			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			1
Circumferential Seams		X	Х	
Separation (mm)	0			1
Longitudinal Seams		X	Х	
Total No. of Cracked Rings	0			1
Total No. of Rings with Two Cracked Seams	-			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76790 -2 Bridge Culvert

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1650, Type: SSP)
Coating	1	X	X	-
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy	·	7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	-	8	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Direction		W		(South-Culv.)
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	Х	_
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	N	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Ration	ng	8	8	GR carried fwd.
		s	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		7	5	Scour u/s end North bank 7mx2m widex1.5m deep.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			1

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 : NONE)								
Channel General Rating			9					

		Maintenance Re	commendations					_	
Inspector Recommendations	Inspector Comments	Departm	ent Commen	ts	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) 88.9/7	7.8 Sufficiency Rating (Last/N (%)	low) 79.3/75.1	Es	t. Repl. Yr	2049 Maint. Re		qd. (Y/N)	No
Special Comments for Next Inspection	Special Comments for Next Inspection								
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 Vande	rschaaf	Previous Assistant's	s Name					
Next Inspection Date	13-Sep-2014		Previous Inspection						
Inspection Cycle (Default) (months)	21								
Comment									