Bridge Culvert Inspection													
Bridge File Number 75530 -1 Bridge Culvert						Form 1			CULE				
Year Built/Line							Lot No.		4				
Bridge or Town Name COWLEY						Inspector Name		Garry Roberts					
Located Over			ARY TO CAST	LE RIVE	R. 2.12	2.35.1.	Inspector Class		BR CLS A				
			RCRS-ST				Assistant Name		Divided it				
Located On		3:04 C1	21.891				Assistant Class						
Water Body Cl	./Year						Inspection Date		27-Nov-2011				
Navigabil. Cl./\	'ear						Data Entry By			Alyssa Boynton			
Legal Land Loc	cation	NW SE	C 11 TWP 7 R	SE 1 W5N	1		Data Entry Date			09-Jan-2012			
Longitude, Lati	tude	-114:02	:23, 49:33:03				Reviewer Name			Tom Carey			
Road Authority Alberta Transportation (AIT)				(AIT)			Review Date		08-Dec-2011				
Contract Main. Area CMA26						Dept. Reviewer Name		Tim Davies					
Clear Roadway/Skew 14.9 / 0 deg.							Dept. Review Date		10-Jan-2012				
AADT/Year 3,950 / 20			2010 (A)				Follow						
Road Classifica	ation	RAU-21	3.4-120					OP -)					
Detour Length	(km)	5											
Bridge Culver	t Inform	ation											
Number of Cul	verts		1							I			
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
2	MAIN F	FULL	-	3360	MP			98.8			98.8	ROUND	
2	D/S FU	JLL	-	4220		SP		13.632		152X51	4.0	ROUND	
Special Feature													
Special Feature		ment											
Openial Feature		orik											
					Uti	ilities (L	ocated.	at)					
Utility Attachme	ents												
Telephone	North						Gas						
Power	3 wire	50 m no			Municipal								
Others Fibre optic S ditch						Proble	m (Y/N)	No					
Remarks													
				Ap				ankment					
					Last	Now	· ·	ation of					
Horizontal Alignment				7	7	Sag curve through valley with good sight distance.							
Vertical Alignm	ent			6	6	5.g 5.5ta 1001							
Roadway Widt	h (m)		21.000										
Embankment					7	7							
Sideslope (_	_:1)		3.0										
(Height of Co	ver(m)	10.2)											
Guardrail (Y/N))		Yes										
Approach Roa	ad / Eml	bankmer	nt General Rat	ing	6	6							
						Upstre	ı am End						
Culvert Comp	onent				Last	Now		ation of	Condi	tion			
Direction					S		South						
End Treatment Others, None)	(Concre	ete, Stee	I, CONCRETE										
Headwall					Х	Х							
Collar					7	7							

_OW	7 7 7	Now X 7 7	Explanation of Condition
LOW	X 7 7 7 7	7 7 7	Explanation of Condition
	7 7 7	7 7	
	7 7 7	7	
	7 7 7	7	
	7	7	
	7		
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	7		
	7	7	
			Ivert Barrel
		Now	Explanation of Condition
Code: MAIN, Span	(mm	<u>):</u>	, Rise (mm): 3360, Type: MP)
Nov-2011			
			1/2 liner.
	7	7	est
2			Measured from liner floor to original roof.
	7	7	Grouted 1/2 liner to midpoint of sidewalls.
3			Measured at top of liner - R23
1			
	7	7	
	7	7	
	7	7	
			1N stagger in original
3			
3			
	4	4	Alkali and corrosion at East S/W of original pipe
3			
	3	7 7 7 7	7 7 7 3 7 7 7 7 7 7 7 7

		Bri	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 2, Primary Span, Loca	ation Code: MAIN, Spa	an (mm	n):	, Rise (mm): 3360, Type: MP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		7	7					
Baffle		Х	X					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No		_					
Barrel General Rating		7	7					
		Bri	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Primary Span, Loca	ation Code: D/S, Span	(mm):	, l	Rise (mm): 4220, Type: SP)				
Barrel Last Accessible Date	27-Nov-2011			SPCSP extention - North D/S end				
Special Features								
Special Feature								
(Type:)			1					
Special Feature								
(Type:)								
Roof	_	8	8	Extended at North and with 3 rings of SPCSP				
Measured Rise (mm)	4220							
Measured At Ring No.	1							
Sag (mm)	0							
Percent Sag								
Sidewall		8	8					
Measured Span (mm)	4220							
Measured At Ring No.	1							
Deflection (mm)								
Percent Deflection			1					
Floor		8	8					
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		8	8					
Separation (mm)	0							
Longitudinal Seams		8	8					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0			2N stagger				
Min. Remaining Steel Between Cracks (mm)	0							
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							
Coating		7	7					
Corrosion By Soil (Y/N)	No							
Correction By Water (V/N)	No							

		Bric	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Primary Span, Loca	tion Code: D/S, Span	(mm):	, i	Rise (mm): 4220, Type: SP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	Yes			At North end - 500mm				
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 Extension General Ratir	ng	8	8					
				ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	CONODETE	N		North End				
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		9	8					
Collar			8					
Wingwalls			Х					
(Shape:)								
Cutoff Wall			N	Buried.				
Bevel End			8					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	1100							
Scour Protection		9	8					
(Type: RIP RAP)								
(Avg. Rock Size(mm): 300)								
Scour/Erosion		9	8					
Beavers (Y/N)	No							
Downstream End General Rati	ng	9	8					
		S	tructu	re Usage				
		Last		Explanation of Condition				
Channel (U/S and D/S)								
Alignment			6					
Bank Stability			6					
HWM (m below Top of Culvert)				HWM not visible				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	-							
Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :								
	,							

Structure Usage									
	Las	Now	Explanation of Condition						
Channel General Rating	6	6							

				Maintenance F	Recommen	dations					
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											
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No. (%)	ow)	v) 77.8/77.8		Sufficiency Rating (Last/Now) (%)		76.0/74.9	Est. Repl. Yr	2035 Maint. Re		qd. (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		Garry Roberts			Previous	Previous Assistant's Name					
Next Inspection Date 27-Aug		-2013			Previous	vious Inspection Date 19-May-2010					
Inspection Cycle (Default) (months) 21											
Comment											