Bridge Culvert Inspection													
Bridge File Number 71014 -1		1 Bridge Culvert				Form Type		CUL1					
Year Built 1952 Bridge or Town Name ONOWAY							Lot No.		4				
Bridge or Town	Name C	DNOWA					Inspector Name		Melanie Johnson				
Located Over	T	RIBUT/ 65.21	JTARY TO STURGEON RIVER, 21. WATERCRS-ST					Inspector Class		BR CLS B			
Located On	3	37:02 C1	1 1.595					Assistant Name					
Water Body CI./	Year							Assistant Class		07.11 0044			
Navigabil. Cl./Year							Inspection Date		07-Nov-2011				
Legal Land Location SE SEC		4 TWP 55 RG	E 2 W5M	1		Data Entry By		Theresa Lacusta					
Longitude, Latitude -114:13:		:36. 53:42:56					Data Entry Date		19-Nov-2011				
Road Authority Alber		Alberta T	erta Transportation (AIT)					Review Date		Eric Carcoux			
Contract Main. Area CMA09		CMA09	9					Dept Reviewer Name		IS-NOV-2011 Bront Horrick			
Clear Roadway/Skew 8.6 /		8.6 /						Dept. Reviewer Name					
AADT/Year 1,80		,800 / 2	800 / 2010 (A)					Follow-Lip By					
Road Classificat	tion R	RAU-209)9-110				lonow	op by					
Detour Length (km) 3	}											
Bridge Culvert Information													
Number of Culv	erts	1									1		
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	1	1724	1901		SPE		48.2		152X51	3.0	ELLIPSE	
Special Feature	S												
Special Feature	s Comme	ent											
					1 14	lition /l	opotod	ot)					
Litility Attachme	nts				01	inties (L	ocated	atj					
Telephone North r/w Gas													
Power	2 wires	es North r/w.						bal					
Others	Alta Sur	pernet fibre optics South r/w.					Problem (Y/N) No						
Remarks File tag South end.								. ,	1				
	Approach Road / Embankment												
					Last	Now	Explanation of Condition						
Horizontal Alignment				6	6	Interse	Intersection to east, both directions. Curve to west, no passing, slight sag curve						
Vertical Alignment				7 7									
Roadway Width (m)		8.500											
Embankment			-		7	7							
Sideslope (:1)		5.0				-						
(Height of Cov	/er(m) : 3	3.6)	-										
Guardrail (Y/N)			No										
Approach Road	d / Emba	inkmen	t General Rat	ing	6	6							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion			
Direction			_		S								
End Treatment Others, None)	(Concrete	e, Steel	, STEEL										
Headwall					X	Х							
Collar				X X									
Wingwalls				X	Х								
(Shape :)													
Cutoff Wall				X	Х								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		5	5	Tear in floor near end. Bevel section was assembled / repaired						
Heaving (mm)	200			poorly. 1st 2 barrel sections heaving.						
Invert Above/Below Stream Bed	nvert Above/Below Stream Bed BELOW									
Above/Below (mm)	100			1						
Scour Protection			6	Shrubs growing around end.						
(Type : NATURAL)										
(Avg. Rock Size(mm) :)				1						
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Upstream End General Rating			5							
		Bric	dae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm): 1724	, Rise (mm): 1901, Type: SPE)						
Barrel Last Accessible Date	07-Nov-2011									
Special Features										
Special Feature										
(Type:)				-						
Special Feature										
(Type :)		1	1							
Roof	1	4	4	Sag was evident and estimated at 200mm.						
Measured Rise (mm)				Lee /silt on floor, unable to measure rise.						
Measured At Ring No.				Sag est. @ 10%						
Sag (mm)	200			-						
Percent Sag	10									
Sidewall		N	4							
Measured Span (mm)	1894			200x200 hole in sidewall ring 7 construction damage.						
Measured At Ring No.	7									
Deflection (mm)	170			_						
Percent Deflection	10									
Floor		N	N							
Bulge (mm)	0			_						
Measured At Ring No.				_						
Abrasion (Y/N)	No									
Circumferential Seams		4	4	Due to repair method chosen at u/s end bolts are missing from						
Separation (mm)	0			with galvacon near U/S end.						
Longitudinal Seams		4	N	Bolts missing on longitudinal seams, both sides of pipe near U/S end						
Total No. of Cracked Rings	0			due to repair method.						
Total No. of Rings with Two Cracked Seams				1N						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N)	Yes									
Coating		5	5	Lower 1/2 of pipe has surface rust.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	vert Barrel				
Culvert Component		Last Now		Explanation of Condition				
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa): 1724	, Rise (mm): 1901, Type: SPE)				
Fish Passage Adequacy			6					
Baffle			X					
(Type :)								
Waterway Adequacy			6	Deep silt23-Mar-2010				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N) No								
Barrel General Rating			4					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		Ν						
End Treatment (Concrete, Steel, Others, None)	STEEL		1					
Headwall		X	X					
Collar			X					
Wingwalls			X					
(Shape :)								
Cutoff Wall			Х					
Bevel End		6	6					
Heaving (mm) 150								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	400		-					
Scour Protection		7	7					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion			7					
Beavers (Y/N) No								
Downstream End General Ratin	ng	6	6					
		S	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)			1					
Alignment			8					
Bank Stability			8					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	NO							
Channel Bottom NONE Degrading/Aggrading								
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)	1	1					
Channel General Rating			8					

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comm	nents		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/Now) (%)		33.3/44.4	4 Sufficiency Rating (Last/No (%)	ow) t	50.1/55.1 Est. Repl. Yr 2019		2019	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 Eric 0		arcoux	F	Previous /	Assistant's Name	Brian Cote	Brian Cote					
Next Inspection Date 07-A		07-Aug-2013			Previous Inspection Date 09-Jun-2011							
Inspection Cycle (Default) (months) 21												
Comment												