					Bride	o Culve	ort Inco	oction					
Bridge File Number 74092 -1 Bridge Culvert				БПаў	je Curve	Form Type			CULE				
Year Built 1953						Lot No.			4				
Bridge or Town Name NITON JUNCTI						Inspector Name			Todd Warshawski				
Located Over TRIBUTARY TO BRULE CRE			E CREEI	 К.		Inspector Class		BR CLS B					
8.11.84.51.23.1, WATE							Assistant Name		D. (020 D				
Located On 16:08 R1 20.981;16:08 L1 21.000				00		Assistant Class							
Water Body Cl.	/Year							tion Date		10-Aug-2012			
Navigabil. Cl./Year							ntry By		Theresa Lacusta				
Legal Land Location NE SEC 26 TWP 53 RC				GE 12 W	5M		Data Entry Date		27-Aug-2012				
Longitude, Latitude -115:39:25			:25, 53:36:35	25, 53:36:35				Reviewer Name		Eric Carcoux			
Road Authority Alberta Tr			Transportation	ransportation (AIT)				Review Date		27-Aug-2012			
Contract Main. Area CMA12				-				Dept. Reviewer Name					
Clear Roadway/Skew 25 /								Dept. Review Date		30-Aug-2012			
AADT/Year		6,840 / 2	2011 (A)				Follow-Up By		00 //ug-2012				
Road Classifica	ation	RAD-41	2.4-120				- Silow-Op By						
Detour Length	(km)	1											
Bridge Culvert		ation											
Number of Culv	verts		1	ı		I				I			
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S		-	3050		SP		46.9		152X51	3.0	ROUND	
1	MAIN		1980	1980	1980		BP					RECTANGLE	
Special Feature	es		STORM WATE	R DRAIN	1								
Special Feature	es Comi	ment											
					114	ilitios (l	_ocated	ot)					
Utility Attachme	ante				Οι	ilities (L	_ocaled	al)					
Telephone	North	r/w					Gas		40 m	north - pipeline			
Power	•						Munici	nal	40 111	nortii - pipeiirie	•		
Others	Fibre	ontics 30	m South of roa	nd c/l				m (Y/N)	No				
Remarks		•	of u/s headwall				1 100.0	(1,1 1)					
		9 011 10			pproa	ch Road	d / Emb	ankment					
				Last	Now	Explanation of Condition							
Horizontal Alignment			8	8	Local road intersection 700mm East.								
Vertical Alignment			8	8									
To those in the second													
Roadway Width (m) 25.000					WBL 1	WBL 11.6m, EBL 12.4m							
Embankment				7	7	4:1 on	4:1 on south side.						
Sideslope (:1) 2.5													
(Height of Co	ver(m) :	(6)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Eml	bankmer	nt General Rat	ing	8	8							
						Unstre	am End						
Culvert Compo	onent				Last				Condi	tion			
Direction					S	,		Explanation of Condition SPCSP					
End Treatment Others, None)	(Concre	ete, Stee	I, CONCRETE										
Headwall	·			7	7								
Collar			7	7	Spall c	n East sh	oulder	due to riprap p	lacement.				

74092 -1 Bridge Culvert

Outroot On			eam End				
Culvert Component		Last	Now	Explanation of Condition			
Wingwalls		X	X				
(Shape:)			Ι				
Cutoff Wall			N	Under water			
Bevel End		N	6				
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	900						
Scour Protection		7	7				
(Type : RIP RAP)							
(Avg. Rock Size(mm): 500)							
Scour/Erosion			7				
Beavers (Y/N)	Yes			Small beaverdam u/s.			
Upstream End General Rating		7	6				
				Ivert Barrel			
Culvert Component		Last		Explanation of Condition			
(Pipe # : 1, Primary Span, Loca		(mm):	, 1	Rise (mm): 3050, Type: SP)			
Barrel Last Accessible Date	12-Jan-1993			Viewed from ends, shape and condition appear ok.			
Special Features							
Special Feature				Poorly patched concrete at storm drain inlet.			
(Type:)							
Special Feature							
(Type:)							
Roof		N	N				
Measured Rise (mm)							
Measured At Ring No.							
Sag (mm)							
Percent Sag							
Sidewall		N	N				
Measured Span (mm)							
Measured At Ring No.							
Deflection (mm)							
Percent Deflection							
Floor		N	N				
Bulge (mm)							
Measured At Ring No.							
Abrasion (Y/N)							
Circumferential Seams		N	N				
Separation (mm)							
Longitudinal Seams		N	N				
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		N	N				
Corrosion By Soil (Y/N)							
Corrosion By Water (Y/N)	Yes						
Concolon by Water (1714)	. 33			2 of 5			

74092 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, i	Rise (mm): 3050, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		6	6						
Baffle		N	N						
(Type : LARGE BOULDER)		'							
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel Extension General Ratin	ng	N	N	G.R. was "6" from 10/Aug/2005.					
		Brio	lge Cu	lvert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1980	, Rise (mm): 1980, Type: BP)					
Barrel Last Accessible Date	10-Aug-2012								
Special Features									
Special Feature		5	X						
(Type : STORM WATER DRAI	N)		_						
Special Feature									
(Type:)									
Roof		5	5	Poorly patch section at storm drain inlet.					
Measured Rise (mm)	1995			Several cracks with stains.					
Measured At Ring No.									
Sag (mm)	0								
Percent Sag									
Sidewall		5	5	Wide cracks in sidewalls with rust stains.					
Measured Span (mm)	2000			Poorly patched sectionphoto					
Measured At Ring No.									
Deflection (mm)	0								
Percent Deflection			1						
Floor	1	N	N	(2 last panels wide cracking - photo corrosion. 10/Aug/2005)					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	Yes		1						
Circumferential Seams	1	4	4	80mm gap at 5th seam. Steel gasket/water stop in place. Corrosion on gasket with 300mm void behind.					
Separation (mm)	80			Corrosion on gasket with soonlin void benind.					
Longitudinal Seams		Х	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		X	X						
Corrosion By Soil (Y/N)									
Correction By Water (V/NI)	1			/I					

74092 -1 Bridge Culvert

		Brid	ige Cul	vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	Class II rock riprap staggered in box sections.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Culvert Component			Now	eam End
Culvert Component Direction		Last N	INOW	Explanation of Condition Concrete box.
	CONCRETE	IN		Concrete box.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	East corner spall 200mm dia.
Collar		7	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		N	N	
Bevel End		6	6	One diagonal crack in each side.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	Gabion baskets.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			
			1	
Downstream End General Ratio	ng	6	6	
				re Usage
Charmal (IIIC and DIC)		Last	Now	Explanation of Condition
Channel (U/S and D/S)		6	6	
Alignment				
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

		Maintenance Re	commendations						
Inspector Recommendations	Year	Inspector Comments	Department Con	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS			·						
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF									
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/ (%)	Now) 55.6/5	Sufficiency Rating (Last/N (%)	low) 61.2/60.1	Est. Repl. Yr 2	Maint. Re	eqd. (Y/N)	No		
Comments for required as per Bi	m Manual Sectio	essed for 2 or more cycles, a Level 2 ins in 13.9.1.5 Based on observed site eval referred to a later date.	spection is luations Department Comments						
Maintenance Reviewed By			Date		Estimated Tota	ıl 0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name Todd		/ski	Previous Assistant's Name	Assistant's Name					
Next Inspection Date	10-May-2014		Previous Inspection Date	s Inspection Date 16-Sep-2010					
Inspection Cycle (Default) (months)	21								
Comment									