13905 -1 Bridge Culvert

					Brida	e Culve	ert Inspe	ection					
Bridge File Num	ber 1	per 13905 -1 Bridge Culvert				Form Type			CUL1				
Year Built 1961				Lot No.			1						
Bridge or Town Name CARVEL CORNE						Inspector Name		Eric Carcoux					
Located Over KILINI CREEK, 6.65.19, WATER			RCRS-	ST	Inspector Class		BR CLS A						
Located On 43:22 R1 23.495;43:22 L1 23.54				11		Assistant Name			Brian Cote				
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Ye							Inspection Date		26-Aug-2011				
Legal Land Loca	ation S	SE SEC 1	16 TWP 53 R	GE 2 W5I	M		Data Entry By			Theresa Lacus	sta		
Longitude, Latitu	ude -	114:13:2	4, 53:34:22				Data Entry Date			27-Sep-2011			
,			ransportation	(AIT)			Reviewer Name		Arnold Assenheimer				
Contract Main. Area CMA1		CMA11	. ,				Review Date		26-Sep-2011				
		15 / 30 de	30 deg. (RHF)				Dept. Reviewer Name						
AADT/Year	1	11,870 / 2	2010 (A)				Dept. Review Date		28-Sep-2011				
Road Classificat	tion F	RAD-412.4-120				Follow-Up By							
Detour Length (I	km) 1	1											
Bridge Culvert	Informa	tion											
Number of Culve	erts	1											
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	24	490	1750		RPP		79.2		152X51	2.8	PIPE ARCH	
Special Features	s	V	ERT STEEL S	STRUTS									
Special Features	s Comm	ent											
					117	::::: /I	(-1)					
Utility Attachme	nto				Ut	ilities (L	ocated.	at)					
Telephone	East r/w	•					Gas						
Power		v. East r/w.			Municipal								
Others	3 111163 1	Last I/W.				Problem (Y/N) No			No				
Remarks							T TODICI	11 (1/14)	1110				
Romano				Aı	oproac	ch Road	l / Emba	ankment					
					Last	Now	Explanation of Condition						
Horizontal Align	ment				6	6	100 m north of Hwy 16 and 43 interchange.						
Vertical Alignment			7	7	SBL 15m NBL 15m.								
Roadway Width (m) 30.000													
Embankment			4	4	Scoure	d 1 5m h	ack an	d 0.8m above c	rown at U/S en	d			
		3.0	7 7			Scoured 1.5m back and 0.8m above crown at U/S end.							
(Height of Cov	· ·	3)	0.0										
Guardrail (Y/N) Yes					West side only.								
Approach Road	d / Emba	ankment	General Rati	ing	6	6							
						Upstrea	am End						
Culvert Compo	nent				Last	Now		ation of	Condi	tion			
Direction					W		•						
End Treatment (Others, None)	(Concrete	e, Steel,	STEEL										
Headwall					Х	Х							
Collar			Х	Х									
Wingwalls		Х	X										
(Shape:)					1								
Cutoff Wall					Х	X							
Catali Vali													

			Unctro	om End				
Culvert Component			П'	eam End Explanation of Condition				
Bevel End		Last 4	Now	•				
	0	4	4	Lawn mower damage top of West bevel.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500		Ι.					
Scour Protection		4	4					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		4	4	Scoured 1.5m back and 0.8 above crown.				
Beavers (Y/N)	No							
Upstream End General Rating		4	4					
		Brid	dge Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Local	tion Code: MAIN, S			· · ·				
Barrel Last Accessible Date	02-Oct-2002		•	Water to within 200mm of top of pipe. Condition appears to be the same as last comments from when it was last accesible.				
Special Features								
Special Feature		N	N					
(Type: VERT STEEL STRUTS)								
Special Feature								
(Type:)								
Roof		N	N	(Assume previous "3" rating due to comments from Oct. 02/02.				
Measured Rise (mm)	1575			15/June/2006))				
Measured At Ring No.								
Sag (mm)	193							
Percent Sag	11			(10.9% sag. 2002/10/02)				
Sidewall		N	N	(5% deflection, 25 mm of steel between cracks. 2002/10/02)				
Measured Span (mm)	2627	- 1	11	(Assume current "2" rating due to comments from Oct. 02/02.				
Measured At Ring No.	2021			15/June/2006) (Measured 2627 x 1575 at ring 7.3. 2002/10/02)				
Deflection (mm)	124			(Woddardd 2027 X 1070 dt 1111g 7.0. 2002/10702)				
· ,	5			-				
Percent Deflection	J							
Floor	25	N	N	-				
Bulge (mm)	25			-				
Measured At Ring No.	NI-							
Abrasion (Y/N)	No							
Circumferential Seams	I_	N	N					
Separation (mm)	0							
Longitudinal Seams		N	N	(Rings 1 to 10, 21 & 22 cracked at 8:00 with ring 4 only have 25 mm				
Total No. of Cracked Rings	10			of steel left. 2002/10/02) (Assume current "2" rating with less than 25mm steel?				
Total No. of Rings with Two Cracked Seams				15/June/2006)				
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No							
Coating		N	N	(Some scaling and pitting. 2002/10/02)				
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	POS							

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		Brio	dge Cul	vert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 2490	, Rise (mm): 1750, Type: RPP)					
Ponding (Y/N) Yes				1.4m ponding					
Fish Passage Adequacy		7	7						
Baffle		N	N						
(Type:)									
Waterway Adequacy		4	4	(Usually little or no freeboard. 2002/10/02) (Icing. 97/06/10)					
Icing (Y/N)	Yes			(Small clump at base of timber struts. 2002/10/02)					
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		2	2	G.R. carried forward since 02/Oct/2002)					
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E		Water to 400mm below crown.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall			X						
Collar			Х						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall			Х						
Bevel End		5	N						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	500	_							
Scour Protection		5	N						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200) Scour/Erosion			N						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	5	5	GR carried forward from 11-Nov-2009					
Structure Usage									
		Last		Explanation of Condition					
Channel (U/S and D/S)		12001	11011						
Alignment			5						
Bank Stability			8						
HWM (m below Top of Culvert)	0.1			HWM 15-June-2006					
Drift (Y/N)	Yes			Evidence indicates pipe has flowed full.					
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

		Main	tenance Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Co	omments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	I Gai	inspector Comments	Department Co	OHIHICHIS	Taiget Teal	LSt. COSt	Cat #
PLACE ADDITIONAL RIP RAP							_
REMOVE DRIFT ACCUMULATION							_
INSTALL CONCRETE/STEEL LINING	3						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION	2013	Replace					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	low) 22.2/22	2.2 Sufficiency Ra	ting (Last/Now) 33.8/33.8	Est. Repl. Yr 2013	Maint. Re	qd. (Y/N)	Yes
Special Replacement designments for Next Inspection	gn currently unde	erway.	Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	1 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Melanie Johns	on	Previous Assistant's Name	е			
Next Inspection Date	26-May-2013		Previous Inspection Date	11-Nov-2009			
Inspection Cycle (Default) (months)	21						