Bridge Culvert Inspection														
Bridge File Num				Billeg	je Guive	Form Type			CUL1					
Year Built 1990						Lot No	• •		2					
Bridge or Town	Name		ND				Inspector Name			Jon Davies				
Located Over	1101110						Inspector Class			BR CLS B				
Located On		52:02 C1		, ,,,,,,	0.10	<u> </u>	Assistant Name		BIX 020 B					
	Year	02.02 0					Assistant Class							
Water Body Cl./Year Navigabil. Cl./Year						Inspection Date		28-Sep-2011						
Legal Land Location SE SEC 17 TWP 6 RGE 19 W4			F 19 W4I	M		Data Entry By		Alyssa Boynton						
			36, 49:27:54				Data Entry Date		13-Oct-2011					
							Reviewer Name		Garry Roberts					
Contract Main. Area CMA25							Review Date		03-Oct-2011					
Clear Roadway/Skew 7.5 / 20 deg. (RHF)							Dept. Reviewer Name							
AADT/Year 1,260 / 2						Dept. Review Date		28-Oct-2011						
Road Classificat	tion	RAU-209					Follow-Up By		20 00: 2011					
Detour Length (I		8	<u> </u>					-1 ,						
Bridge Culvert		ation								1				
Number of Culve		1	1											
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	-		3650		SP		53		152X51	3.0	ROUND		
Special Feature	S													
Special Feature	s Comr	ment												
Litility Attachmo	oto				Ut	ilities (L	ocated	at)						
Utility Attachmen	T	ditch					Gas							
Telephone South ditch.					Munici									
Others	Power 3 wires West 100m. Others Fibre optic cable North ditch.				Problem (Y/N) No		No							
Remarks	1 IDIC	optic cabi	ie North diton.				1 TODICI	11 (1/14)	INO					
rtomanto				Aı	oproa	ch Road	l / Emb	ankment						
					Last		Explanation of Condition							
Horizontal Alignment			7	7	Farm access at SW In sag curve, no passing EB. Highway 846 500m East.									
Vertical Alignment			6	6	In sag	curve, no	passir	ng EB. Highway	846 500m Eas	st.				
Roadway Width (m) 7.500														
Embankment					7	7	Both si	des start	@ 5:1	then 3:1.				
Sideslope (:	:1)		3.0											
(Height of Cov	/er(m) :	4.2)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	oankmen	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	Culvert Component						Now Explanation of Condition							
Direction					South end.									
End Treatment (Others, None)	(Concre	ete, Steel	CONCRETE											
Headwall					7	7								
Collar	Collar			7	7	Hairline cracks.								
Wingwalls			Х	Х										
(Shape:)														
Cutoff Wall			N	N	Burried	1								

			Unstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6	Top of bevel was allowed to creep inwards 50mm both sides prior to					
Heaving (mm)	0			casting collar. Inward 200mm @ East side.					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500								
Scour Protection	6	3	Rip Rap displaced U/S west.						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		6	3	5m long x 4m wide up to 3m deep sour extends up to 500mm behind					
				west bevel.					
Beavers (Y/N)	No								
Upstream End General Rating	<u> </u>	6	3						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, S	pan (mm):	, Rise (mm): 3650, Type: SP)					
Barrel Last Accessible Date	19-Jan-2010			Not accessible due to high water level and flow.					
Special Features									
Special Feature									
(Type:)		<u> </u>							
Special Feature									
(Type :)		<u> </u>							
Roof		7	N	(Roof estimated.) Jan 10 2010.					
Measured Rise (mm)	3620			P.R. 7 View from ends - general shape is good.					
Measured At Ring No. 9				view from ends - general snape is good.					
Sag (mm) 30									
Percent Sag									
Sidewall		7	N	(3460 R1) 19 jan 2010.					
Measured Span (mm)	3673			P.R. 7 ' '					
Measured At Ring No.	6								
Deflection (mm)	23								
Percent Deflection	1								
Floor		N	N	(400m water on 300mm deep silt)					
Bulge (mm)	0			Jan 19 2010.					
Measured At Ring No.	9								
Abrasion (Y/N)									
Circumferential Seams		8	N	P.R. 8					
Separation (mm)	0								
Longitudinal Seams		6	N	(All plates appear to be curved too far causing seams to try to cusp					
Total No. of Cracked Rings	0			inwards. Worst case 3:00 & 9:00. Gaps up to 10mm @ some. No Change.) Jan 19 2010.					
Total No. of Rings with Two Cracked Seams	0			(2N stagger) Jan 19 2010.					
Min. Remaining Steel Between Cracks (mm)	0			P.R.6					
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N) Yes									
Coating		6	N	(Couple small indentations, some minor rust & some galvanizing					
Corrosion By Soil (Y/N)	No			peeling) Jan 19 2010.					
Corrosion By Water (Y/N)	Yes			P.R 6					
Camber POS/ZERO/NEG	ZERO								

		Brid	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 3650, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	N	P.R 7
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	N	P.R. 6
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction				North end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		X	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)		T _		
Scour/Erosion	T	7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	6	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		T _		
Alignment		5	4	Creek makes a 80 degree corner to enter U/S.
Bank Stability		6	3	Bank sloughing up to 20m U/S of inlet.
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)	5		
Channel General Rating			3	

		Maintenance	Recommen	dations					
Inspector Recommendations	Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS	1.00.	moposis: comments					ranger rear		- Cat !!
PLACE ADDITIONAL RIP RAP	2012	Place 20m3 of class 1 rip rap.							
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 66.7/55	.6 Sufficiency Rating (La (%)	st/Now)	67.9/64.0	Est. Repl. Yr	2043 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous	Assistant's Name					
Next Inspection Date	28-Jun-2013		Inspection Date 19-Jan-2010						
Inspection Cycle (Default) (months)	21								
Comment									