## Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection													
Bridge File Number 00164 -1 Bridge Culvert							Form Type		CULM				
Year Built 1977			7					Lot No.		4			
Bridge or Town Name SPRING COULE							Inspect	Inspector Name		Jason Rusu			
Located Over		PINEP	EPOUND CREEK, 2.12.20.4,				Inspector Class			BR CLS A			
Loootod Op			1ERCRS-S1					Assistant Name					
Located On 505:04 CT 20.873							Assistant Class						
Navigabil CL/V	Teal						Inspection Date		10-Jun-2012				
Navigabil. Cl./ re	edi	S/W SE	EC 32 TWP 4 RGE 23 W4M					ntry By		Erin Roberts			
Legal Lanu Location SW SEC			0 32 TWF 4 R0	JE 23 VV4			Data E	ntry Date		25-Jul-2012			
Pood Authority Alborto		Farta Transportation (AIT)					er Name		Garry Roberts				
Contract Main Area CMA2							Review Date		10-Jul-2012				
Clear Roadway/Skow 9.8 / -1/			25 15 dog (LHE)					Dept. Reviewer Name		Tim Davies			
AADT/Year	ORCW	440 / 20					Dept. R	Review Date		30-Jul-2012			
Road Classificat	tion	RCU-2	09-110				Follow-	Up By					
Detour Length (	km)	3											
Bridge Culvert	Inform	ation					<u> </u>						
Number of Culv	erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		4090	4520		SPE		43.9		152X51	3.0	ELLIPSE	
2	MAIN		4090	4520		SPE		43.9		152X51		ELLIPSE	
Special Feature	s												
Special Feature	s Comr	ment											
					Uti	ilities (L	ocated	at)					
Utility Attachments													
Telephone	South	uth ditch					Gas	10	00 m	East / xing roa	d		
Power Outpatient Double DOUM					Nunicip								
Others Supernet South ROW						Probler	fi (t/in)   in	0					
Remarks				Δr	nroa	ch Roar	l / Emba	ankment					
					Last	Now	Explan	ation of Co	ondit	ion			
Horizontal Align	ment				5	5	Curves	from both c	lirec	tions.			
Vertical Alignme	ent				5	5	Bottom	of sag.					
Roadway Width	(m)		9.400										
					7	7							
Sidoslopo (	•1)		2.0		1	1							
(Height of Co	.1) /or(m) ·	2 1)	3.0										
Guardrail (Y/N)	ver(iii) .	<b>2.7</b> )	Yes										
Annreach Deer	d / Emak												
Approach Road	a / Emc	bankme	nt General Rat	ing	Э	5							
						Upstrea	am End			-			
Culvert Compo	onent				Last	Now	Explan	ation of Co	ondit	ion			
(Pipe # : 1, Span Type: Primary Span)													
Direction					South invert, East pipe								
End Treatment Others, None)	(Concre	ete, Stee				_							
Headwall					7	7							
Collar			7	7	Minor transverse cracks.								
Wingwalls				Х	X								
(Shape : )													

			Upstrea	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)								
Cutoff Wall			N						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	400								
Scour Protection			5						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>300</b> )									
Scour/Erosion			5						
Beavers (Y/N)	No								
Upstream End General Rating		5	5						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 4090	, Rise (mm): 4520, Type: SPE)					
Barrel Last Accessible Date	10-Jun-2012			East pipe. Takes water from channel.					
Special Features	1								
Special Feature									
(Type:)									
Special Feature									
(Type : )									
Roof		8	8	Upward					
Measured Rise (mm)	4560								
Measured At Ring No.	6								
Sag (mm)	40								
Percent Sag	1								
Sidewall		7	7						
Measured Span (mm)	4033								
Measured At Ring No.	6								
Deflection (mm)	57								
Percent Deflection	1								
Floor		7	7						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		7	7	All seams lapped wrong.					
Total No. of Cracked Rings	0			1N stagger					
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		5	5	Minor corrosion at u/s 2 sections on					
Corrosion By Soil (Y/N)	Yes		-	sidewall-some indentations					
Corrosion By Water (Y/N)	Yes								

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00164 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm	): 4090	, Rise (mm): 4520, Type: SPE)					
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Туре : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	v Span)								
Direction				EAST PIPE NORTH END					
End Treatment (Concrete, Steel, Others, None)	STEEL		1						
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape : )									
Cutoff Wall		X	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	0								
Scour Protection		5	4	Loss of RipRap around outlet.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		5	4	Erosion around pipe & scour @ the end 12x16.					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	4						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction				WEST PIPE SOUTH INLET					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		7	7						
Collar		7	7						
Wingwalls		Х	Х						
(Shape : )			1						
Cutoff Wall		N	N						

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	l.		Upstream End					
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Bevel End		6	6					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW			-				
Above/Below (mm)	400							
Scour Protection		5	5					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 300)			-					
Scour/Erosion		5	5					
Beavers (Y/N)	No							
Upstream End General Rating		5	5					
		Bri	d <u>ge Cu</u>	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (I	mm): 40	090, Rise (mm): 4520, Type: SPE)				
Barrel Last Accessible Date	10-Jun-2012			West pipe. Takes SW ditch drainage.				
Special Features			1					
Special Feature								
(Type:)		1						
Special Feature								
(Туре : )								
Roof		7	7					
Measured Rise (mm)	4473			-				
Measured At Ring No.	6							
Sag (mm)	47							
Percent Sag	1							
Sidewall		7	7	3rd ring from u/s tear in west wall - minor				
Measured Span (mm)	4133			-				
Measured At Ring No.	6			_				
Deflection (mm)	43			-				
Percent Deflection	1							
Floor	Γ	N	N	Silt covered.				
Bulge (mm)				-				
Measured At Ring No.				-				
Abrasion (Y/N)								
Circumferential Seams		7	7					
Separation (mm)	0							
Longitudinal Seams	1	7	7	All seams lapped wrong.				
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							
Coating		5	5					
Corrosion By Soil (Y/N)	Yes							
Corrosion By Water (Y/N)								
Camber POS/ZERO/NEG	ZERO							

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Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 40	090, Rise (mm): 4520, Type: SPE)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		X	Х						
(Туре : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating			7						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction				WEST PIPE NORTH END					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar			Х						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall		Х	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 0									
Scour Protection		5	4	Loss of RipRap.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		5	4	Erosion to West around outlet. Large scour hole 12m x 16m.					
Beavers (Y/N)	No								
Downstream End General Ratin	ıg	5	4						
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			7						
Bank Stability		5	5						
HWM (m below Top of Culvert)	2.0			(2m FREEBOARD '86.) 12- June-2009					
Drift (Y/N)	No								
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #				
OVERLAY DECK												
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No	ow)	77.8/77.	.8 Sufficiency Rating (Last/ (%)	/Now) 72.0/72.4		Est. Repl. Yr	st. Repl. Yr 2016		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		Roberts		Previous	ious Assistant's Name							
Next Inspection Date 10-Se		-2015		Previous	ous Inspection Date 19-Jun-2009							
Inspection Cycle (Default) (months) 39												
Comment												