					Bridg	e Culve	rt Insp	ection		l					
Bridge File Nur	nber	75212 -	1 Bridge Culve	rt			Form Type			CUL1					
Year Built 1994 Bridge or Town Name DUCHESS							Lot No.			4					
Bridge or Town	Name	DUCHE	SS			Inspector Name			Jon Davies						
Located Over		EID - IF	RRIGATION C,	WATERC	RS-IC	;	Inspector Class			BR CLS B					
Located Over EID - IRRI Located On 36:08 C1 / Water Body Cl./Year Navigabil. Cl./Year Legal Land Location NE SEC 3 Longitude, Latitude -111:57:05 Road Authority Alberta Tra Contract Main. Area CMA23 Clear Roadway/Skew 19 / AADT/Year 1,740 / 20 Road Classification RAU-211.8 Detour Length (km) 5 Bridge Culvert Information Number of Culverts 1		1 11.829				Assistant Name									
Navigabil. Cl./Year Legal Land Location NE SEC 36 Longitude, Latitude -111:57:05 Road Authority Alberta Tra Contract Main. Area CMA23 Clear Roadway/Skew 19 / AADT/Year 1,740 / 201 Road Classification RAU-211.8						Assistant Class									
Navigabil. Cl./Y	'ear						Inspection Date		14-Jan-2012						
		C 36 TWP 20 R	36 TWP 20 RGE 15 W4M				ntry By		Anne Roberts						
Longitude, Latitude -111:57:05		:05, 50:44:27	05, 50:44:27				Data Entry Date		27-Feb-2012						
Road Authority Alberta		Transportation	(AIT)			Reviewer Name		Garry Roberts							
Contract Main. Area CMA		CMA23	MA23					/ Date		20-Jan-2012					
Clear Roadway/Skew 19 /						Dept. Reviewer Name			Tim Davies						
		2010 (A)				Dept. F	Review Da	ate	11-Mar-2012						
		RAU-21	11.8-110				Follow-	-Uр Ву							
Detour Length	(km)	5													
Bridge Culvert	Inform	ation													
Number of Culv	/erts		1												
Pipe #	Barrel		Span	Rise (or	Dia.)	Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		-	2400		MP		45.6		125X26	2.8	ROUND			
Special Feature	es														
Special Feature	es Comr	ment													
								- 4)							
Litility Attachme	nte				Ut	ilities (L	ocated	at)							
	1110						Gas		Cross	ing 200 m Sout	 h				
Telephone Power At East ROW					Municipal Processing 200 m Count										
Power At East ROW							Problem (Y/N) No								
Others Remarks						TODICI	110010111 (1714)								
Remarks				Δι	nnroa	ch Road	l / Emb	ankment							
					Last	Now		ation of		tion					
Horizontal Alignment			6	7	Intersection with SH 550 60 m to North.										
Horizontal Alignment Vertical Alignment					6	5	Hill to South								
Roadway Width (m)		10.500													
Embankment					7	6									
Sideslope (:1)		4.0			_									
(Height of Co		1.4)													
Guardrail (Y/N)			No												
Approach Roa	d / Emb	oankme	nt General Rat	ing	6	6									
						Upstre	am End								
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion					
Direction					W										
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL												
Headwall					Х	Х									
Collar					Х	Х									
Wingwalls					Х	X									
(Shape:)															
Cutoff Wall					Х	Х									

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	7	Explanation of Condition
Heaving (mm)	0	0		
Invert Above/Below Stream Bed				
Above/Below (mm)	300			
Scour Protection		8	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)			T _	
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
		Bri	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S			, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	14-Jan-2012		<u>, </u>	
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2260			
Measured At Ring No.	2			Est
Sag (mm)	75			
	3			-
Percent Sag	3			
Sidewall	 	7	7	
Measured Span (mm)	2415			
Measured At Ring No.	1			
Deflection (mm)	15			
Percent Deflection	1		_	
Floor		N	N	Ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	5	50mm vert gap @ bevel ext @both ends - No problems
Separation (mm)	80			
Longitudinal Seams		X	Х	
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		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	<u>):</u>	, Rise (mm): 2400, Type: MP)
Fish Passage Adequacy		Х	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	7	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		8	7	
HWM (m below Top of Culvert)	0.6			[May 28/08] No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		9	9	

75212 -1 Bridge Culvert

		Maintenance Red	commendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Та	arget Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LININ	IG							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CU	TOFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/	(Now) 77.8/77	7.8 Sufficiency Rating (Last/N (%)	low) 82.9/80.7	Est. Repl. Yr	2036	Maint. Re	qd. (Y/N)	No
Special This site was predicted to confine Next Inspection	viously confused v m. GPS and map	vith 75211 sapn and rise measured wer show this site South of SH 550	Department Comments					
Maintenance Reviewed By			Date		Esti	mated Tota	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Tom Carey		Previous Assistant's Name					
Previous inspectors marrie				Previous Inspection Date 22-Jun-2010				
Next Inspection Date	14-Oct-2013		Previous Inspection Date	22-Jun-2010				
•	14-Oct-2013 21		Previous Inspection Date	22-Jun-2010				