				Bridg	e Culve	ert Inspe	ection						
Bridge File Number 75144 -1 Bridge Culvert									CUL1				
Year Built	1989								2				
Bridge or Town Nan	Name BROOKS				Inspector Name				Jon Davies				
Located Over EID - IRRIGATION C, WATERC				RS-IC		Inspector Class		BR CLS B					
Located On 873:02 C1 15.246						Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date		22-Mar-2012					
Legal Land Location	NE SEC	30 TWP 16 R	GE 14 W4	1M		Data Entry By Anne Roberts							
Longitude, Latitude -111:54:41, 50:22:43						Data Entry Date			16-Apr-2012				
Road Authority Alberta Transportation (AIT)					Reviewer Name			Garry Roberts					
Contract Main. Area CMA23			Review Da			Date		24-Mar-2012					
Clear Roadway/Ske					Dept. Reviewer Name			Tim Davies					
AADT/Year	250 / 201	1 (A)				Dept. Review Date			17-Apr-2012				
Road Classification	RLU-209					Follow-Up By							
Detour Length (km)	20						-1 5						
Bridge Culvert Info						1							
Number of Culverts	1												
Pipe # Barr	rel S	pan	Rise (or l	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAI	N -		4215		SP		51.2		152X51	3.0,3.0,3.0	ROUND		
Special Features										·			
Special Features Co	omment												
-													
				Uti	lities (L	ocated	at)						
Utility Attachments						1		1					
	st ditch	ditch					Gas 2 lines x 10m u/s Municipal						
	vire E ditch						oal n (Y/N)						
	gh Pressure v	Pressure waterline 10m u/s						No					
Remarks													
			Ар			1	ankment						
			Last		Explanation of Condition								
Horizontal Alignmen	<u>11</u>			7	7	curves 200m south							
Vertical Alignment Roadway Width (m)		11.500		6	6	cattlegate 50m S							
Embankment		1		7	7	-							
Sideslope (:1)		4.0				-							
(Height of Cover(r	m) : 4)	1											
Guardrail (Y/N)		Yes											
Approach Road / E	Embankment	General Rat	ing	6	6								
					Upstre	am End							
Culvert Componen	nt			Last	Now		ation of	Condi	ion				
Direction					West								
End Treatment (Concrete, Steel, CONCRETE Dthers, None)				Unable	to view								
Headwall			N	N									
Collar		N	N										
Wingwalls			Х	X									
(Shape :)						1							
Cutoff Wall			N	N									

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	1		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection			N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	General rating carried forward
		Brie	dqe Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 4215, Type: SP)
Barrel Last Accessible Date	22-Jan-1999			
Special Features				
Special Feature				-
(Type:)				
Special Feature				
(Туре :)				
Roof		N	N	Unable to view pipe water level is within 500 mm of crown.
Measured Rise (mm)	4330			
Measured At Ring No.	1			
Sag (mm)	100			
Percent Sag	0			
Sidewall	•	N	N	
Measured Span (mm)	4310			
Measured At Ring No.	1			-
	115			
Deflection (mm) Percent Deflection	0			
	0			
Floor	•	N	N	
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No		_	
Circumferential Seams		N	N	
Separation (mm)	0		_	
Longitudinal Seams		N	N	-
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			1
Longitudinal Stagger (Y/N)	Yes			1
Coating		N	N	
Corrosion By Soil (Y/N)				-
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			No sight line
	1			
Ponding (Y/N)	No			

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Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm		, Rise (mm): 4215, Type: SP)					
Fish Passage Adequacy			7						
Baffle			Х						
(Туре:)									
Waterway Adequacy		4	4	Under sized pipe					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)									
Barrel General Rating		N N							
		D	ownstr	ream End					
Culvert Component			Now	Explanation of Condition					
Direction	1			EAST					
	nd Treatment (Concrete, Steel, CONCRETE			Unable to view					
Headwall		N	4	wide transverse crack at full depth of section near crown.					
Collar		N	N						
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		N	N						
Bevel End	Bevel End		N						
Heaving (mm)	Heaving (mm) 0								
Invert Above/Below Stream Bed	Invert Above/Below Stream Bed BELOW								
Above/Below (mm)	700								
Scour Protection		N	N						
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Rati	ng	7	4						
		S	Structu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		9	9	control structure u/s					
Bank Stability		6	7						
HWM (m below Top of Culvert)	2.0			above culvert stains on riprap. U/S and D/S indicate pipe spends					
Drift (Y/N)	No			significant time submerged.					
Channel Bottom Degrading/Aggrading				Not visible					
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			9						

Maintenance Recommendations											
Inspector Recommendations		- Inspec	ctor Comments	Department Com	ments	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		be dra	m with EID when rolling hills reservoir v awn down and coordinate inspection v pipe capacity requirements.	/ill							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) 5 (%)		/55.6	Sufficiency Rating (Last/Now) (%)	59.0/55.8	Est. Repl. Yr	2050	Maint. Red	qd. (Y/N)	Yes		
Special Comments for Next Inspection	Department Comments										
Maintenance Reviewed By		Date		Estimated Total 0							
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tim Davies			Previou	us Assistant's Name							
Next Inspection Date 22-Jun		5	Previou	s Inspection Date							
Inspection Cycle (Default) (months) 39											
Comment											