Bridge Culvert Inspection												
Bridge File Nur	nber	79290 -	1 Bridge Culve						CULE			
Year Built/Line		1982/20						Lot No.		4		
Bridge or Town	Name						Inspec	tor Name		Wade Nanninga		
Located Over				Y TO LESSER SLAVE RIVER,					BR CLS A			
		8.11.80	27 WATEDODC CT			Assistant Name						
Located On		2:48 C1	28.617				Assistant Class					
Water Body Cl.	/Year								27-Mar-2013			
Navigabil. Cl./Y	'ear						Data Entry By		Theresa Lacus	sta		
Legal Land Loc	cation	NW SE	C 28 TWP 73 R	GE 8 W5N	N				17-Apr-2013			
Longitude, Lati	tude	-115:10	:24, 55:21:10						Eric Carcoux			
Road Authority		Alberta	Transportation	(AIT)				Review Date		11-Apr-2013		
Contract Main.	Area	CMA06							Name	Brent Herrick		
Clear Roadway	//Skew	10.3 / 5	deg. (RHF)					Review Da		23-Apr-2013		
AADT/Year		3,030 / 2	2012 (A)				· · ·	-Up By		207.012010		
Road Classifica	ation	RAU-21	0-110					op _)				
Detour Length	(km)	200										
Bridge Culver	t Inform											
Number of Culv	verts		2									
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape
2	MAIN F LINER	ULL	-	1219		SSP		35.7			12.7	ROUND
3	U/S		-	2000		MP		7.7		125X26	2.8	ROUND
3	MAIN		-	1829		SSP	18.3				15.9	ROUND
3	D/S		-	2000		MP		9.7		125X26	2.8	ROUND
Special Feature	es									•	·	
Special Feature	es Comi	ment										
-												
					Uti	ilities (L	ocated	at)				
Utility Attachme												
Telephone	South						Gas					
Power	6 wire	s North I	r/w.				Municipal					
Others							Problem (Y/N) No					
Remarks				A								
						Now		ankment nation of (tion		
Horizontal Aligi	amont				<u>معر</u>	8				uon		
Vertical Alignm					7	7	No passing WBL.					
Roadway Widtl			10.300		-	1						
	. ()		10.000									
Embankment					8	8						
Sideslope (6.0				-					
(Height of Co		: 1.4)										
Guardrail (Y/N)			No									
Approach Roa	ad / Eml	bankmei	nt General Rat	ing	7	7						
						Upstre	am End					
Culvert Comp	onent				Last	Now	Explar	nation of	Condi	tion		
(Pipe # : 2, Sp	an Typ	e:)										
Direction				:	S		-					
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL									
Headwall					Х	X						

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Collar		X	X	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			400mm above S/B on the 1219 mm WSP.
Above/Below (mm)	1000			
Scour Protection		7	Ν	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried fwd.
Culturent Common and		1		Ivert Barrel
Culvert Component	tion Code: MAIN Sna			Explanation of Condition
(Pipe # : 2, Primary Span, Loca		in (mm	<u>):</u>	, Rise (mm): 1219, Type: SSP)
Barrel Last Accessible Date	09-Jun-2011			Ice to roof - not visible, carry fwd all notes.
Special Features		1		
Special Feature				
(Type:)				-
Special Feature				
(Type:)		1	_	
Roof	1	9	N	Near c/l.
Measured Rise (mm)	1197			-
Measured At Ring No.				-
Sag (mm)	22			-
Percent Sag	2			
Sidewall	1	9	N	near L
Measured Span (mm)	1193			-
Measured At Ring No.				-
Deflection (mm)	0			-
Percent Deflection	0		-	
Floor	1	9	N	
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams	1	9	N	There are two welded joints.
Separation (mm)				
Longitudinal Seams		X	X	
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)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Primary Span, Loc	ation Code: MAIN, S	pan (mm):	, Rise (mm): 1219, Type: SSP)				
Coating		5	N	No coating				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	Inlet perched above S.B.				
Baffle		x	X					
(Type :)			^					
Waterway Adequacy		7	N	0.2m silt in middle of barrier				
	No	1	IN					
Icing (Y/N)	Yes			-				
Silting (Y/N)	No			-				
Drift (Y/N)		-	N 1	CD proviously (0)				
Barrel General Rating		9	N	GR previously '9'				
Output Opman and				Ivert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 3, Secondary Span, L		Span (mr	n):	, Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	09-Jun-2011			Rating is for U/S and D/S sections. Ice to roof				
Special Features			1					
Special Feature				Roof and sidewall measurements for U/S barrel section. D/S CSP				
(Type:)				section measurements are better - U/S governs				
Special Feature								
(Type:)								
Roof		9	N					
Measured Rise (mm)	1982							
Measured At Ring No.								
Sag (mm)	18							
Percent Sag	1							
Sidewall		9	N					
Measured Span (mm)	1993							
Measured At Ring No.								
Deflection (mm)	0							
Percent Deflection	0							
Floor		9	N					
Bulge (mm)								
Measured At Ring No.				1				
Abrasion (Y/N)				1				
Circumferential Seams		9	N					
Separation (mm)	0							
Longitudinal Seams		X	Х					
Total No. of Cracked Rings				1				
Total No. of Rings with Two Cracked Seams				1				
Min. Remaining Steel Between Cracks (mm)				1				
Proper Lap (Y/N)				1				
Longitudinal Stagger (Y/N)								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ilvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 3, Secondary Span,	Location Code: U/S			, Rise (mm): 2000, Type: MP)
Coating		5	N	Superficial rust lower 1/3.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	X	
(Type :)				
Waterway Adequacy		7	N	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			1
Barrel Extension General Ra	ting	9	N	GR previously "9"
		Brid	dge Cu	livert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span,	Location Code: MAI	N, Span (r	nm):	, Rise (mm): 1829, Type: SSP)
Barrel Last Accessible Date	09-Jun-2011			Ice to roof
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	Measure at road L
Measured Rise (mm)	1886			
Measured At Ring No.				
Sag (mm)	63			
Percent Sag	3			
Sidewall		8	N	Measure at road L
Measured Span (mm)	1824			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor	, ,	9	N	
Bulge (mm)		0		
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	X	
Separation (mm)			~	
Longitudinal Seams		X	N	
Total No. of Cracked Rings		~	IN	
Total No. of Rings with Two				
Cracked Seams				
Between Cracks (mm) Proper Lap (Y/N)				-
				-
Longitudinal Stagger (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

79290 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	, Rise (mm): 1829, Type: SSP)								
Coating		5	N	No coating. Superficial rust on lower 1/3						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy	Fish Passage Adequacy									
Baffle	Baffle									
(Type :)										
Waterway Adequacy		7	N	0.2m silt in barrel						
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		8	N	GR previously "9"						
				eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 3, Span Type:)		1		1						
Direction	1	N		Ratings apply to both culverts						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		X	Х							
Bevel End		7	N							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	350									
Scour Protection		7	N							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 450)										
Scour/Erosion		7	N							
Beavers (Y/N)	No									
Downstream End General Rati	ng	7	7	GR carried fwd.						
		S	Structu	re Usage						
				Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		8	8							
HWM (m below Top of Culvert)			1	HWM not visible.						
Drift (Y/N)	No									

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

Maintenance Recommendations													
Inspector Recommendations		Year	Inspector 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/CUTC)FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No(%)	ow)	88.9/55.	.6 Sufficiency Rating (Last/ (%)	Now)	74.3/63.8	Est. Repl. Yr 2055		Maint. Reqd. (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	Shane Hall			Previous Assistant's Name									
Next Inspection Date 27-D		-2014		Previous Inspection Date 09-Jun-2011									
Inspection Cycle (Default) (months)	21												
Comment													