				-1010101			HO11(0)()						
ber	75542 -	1 Bridge Culve		7110.0					CULM				
							• •		4				
Name	LAKE IS	SLE							Kris Bosters				
			ARY TO ST	ΓURG	EON	· ·							
						-							
	633:02	C1 10.480				Assistant Class							
Year									20-Jul-2012				
									Theresa Lacus	sta			
ation	NW SE	C 6 TWP 54 R	GE 5 W5M						07-Aug-2012				
ude									Eric Carcoux				
		-	(AIT)			Review	/ Date		06-Aug-2012				
Area	CMA12				Dept. F	Reviewer N	Name						
Skew	9.7 /												
		` '				Follow	Up By						
tion		9-110											
	20												
			D: / -		_					DI (6)			
Barrel		Span	Rise (or D	ia.)	Туре		Length		Corr. Profile		Shape		
MAIN		-	1200	MP			35		68X13		ROUND		
											ROUND		
		-									ROUND		
			1000				00		007110	12.0	TROUND		
nts				Uti	lities (L	.ocated	at)						
	r/w					Gas							
						Municipal							
						·							
			Арј	proac	h Road	l / Emb	ankment						
			L	_ast	Now	Explan							
ment				6	6	No pas	No passing EB. Curve in both directions.						
ent				7	7								
(m)		9.700											
ankment					1								
				N	6								
:1)		3.0		N	6								
:1) /er(m) :	3.3)	3.0		N	6								
	3.3)	3.0 No		N	6								
/er(m)			ing	6	6								
/er(m)		No	ing	6	6 Upstre	am End							
d / Eml	bankmer	No nt General Rat		6	6 Upstre		ation of C	Condi	tion				
d / Eml	bankmer	No		6	6 Upstre			Condi	tion				
ver(m)	oankmer e: Prima	No nt General Rat	l	6	6 Upstre		ation of C	Condi	tion				
ver(m)	oankmer e: Prima	No nt General Rat ry Span)	l	6 _ast	6 Upstre	Explar	ation of C	Condi	tion				
	Year ear ation ude  Area /Skew tion km) Inform erts Barrel MAIN MAIN MAIN s s Comi	Name LAKE IS  2ND OF RIVER, 633:02  Year ear ation NW SE ude -114:43 Alberta Area CMA12  /Skew 9.7 / 440 / 20 tion RCU-20 tion RCU-20 tion RCU-8 Barrel  MAIN MAIN MAIN S S Comment  South r/w South r/w.	1983   Name   LAKE ISLE   2ND ORDER TRIBUT, RIVER, 6.65.27.2, WA   633:02 C1 10.480   Year   ear   ation   NW SEC 6 TWP 54 ROude   -114:43:50, 53:38:32   Alberta Transportation   Area   CMA12   (Skew   9.7 / 440 / 2011 (A)   tion   RCU-209-110   km)   20   Information   erts   3   Barrel   Span   Span   MAIN   - MAIN   - MAIN   - S   s Comment   South r/w   Sout	Name	Name	Name	Name	Table   Tabl	Name	Name   LAKE   ISLE	1983		

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		N	N	Submerged
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	(Scour along inlet - photo. 1m x 1.5m x 0.2m deep. 24/Nov/2005)
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	G.R. carried forward from 24/Nov/2005.
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	23-Oct-1994		,	West pipe, submerged
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(Viewed from ends shape & condition appear good. Ice & debris .6m
Measured Rise (mm)				from crown02-Feb-2009)
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Viewed from ends. Shape appears to be in good condition02-Feb-
Measured Span (mm)				2009)
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	20			
Longitudinal Seams		Х	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)				

		Bric	Bridge Culvert Barrel							
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1200, Type: MP)						
Coating		4	N	Pitting rust lower 1/202-Feb-2009						
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		Х	N							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		5	8	(Local land owner advised 2 - 1200 usually ice up completely. 98/04/13)						
Icing (Y/N)	No			,						
Silting (Y/N)	No			Debris in culvert09-Feb-2009						
Drift (Y/N)	Yes									
Barrel General Rating		N	N	Previously rated "7" on 24/Nov/2005.						
				eam End						
Culvert Component	_	Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	<i>i</i> Span)									
Direction	1	S		West pipe .Submerged.						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape: )										
Cutoff Wall		Х	Х							
Bevel End		N	N	Submerged						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		N	N							
(Type: <b>NATURAL</b> )										
(Avg. Rock Size(mm):)										
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	7	7	GR carried forward from 02-Feb-2009.						
			Upstr <u>e</u>	am End						
Culvert Component		1		Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		N		East pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	Х							

			Upstre	eam End
Culvert Component		Last	Now	
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		N	N	Submerged
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward from 02-Feb-2009
oponoum =no conorm numig				
				ulvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo		Span (r	mm):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	23-Oct-1994			East pipe. Submerged
Special Features				
Special Feature				
(Type:)			1	4
Special Feature				
(Type:)				
Roof		N	N	Limited view from ends shape & condition appear good. Ice & debris 0.6m from crown02-Feb-2009
Measured Rise (mm)				0.011 HOTH CIOWIT02-F eb-2009
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	Limited view from ends, shape appears to be in good shape02-Feb-2009
Measured Span (mm)				2009
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	20			
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)				

		Brio	Bridge Culvert Barrel						
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	pan (n	nm):	, Rise (mm): 1200, Type: MP)					
Coating		4	N	Pitting rust lower 1/202-Feb-2009					
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		Х	N						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		5	N	(Local land owner advised 2 - 1200 usually ice up completely.					
Icing (Y/N)	No			98/04/13)					
Silting (Y/N)	No			Debris in culvert02-Feb-2009					
Drift (Y/N)	Yes								
Barrel General Rating		N	N	Previously rated "7" on 24/Nov/2005.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	larv Span)		11011						
Direction	,	S		East pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL			Submerged					
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End		N	N						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		N	N						
(Type: NATURAL)									
(Avg. Rock Size(mm):)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	7	7	GR carried forward from 02-Feb-2009.					
			Upstre	am End					
Culvert Component				Explanation of Condition					
(Pipe # : 3, Span Type: Second	ary Span)								
Direction		N		Center pipe, overflow above SB					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		Х	5	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	2000			
Scour Protection		N	5	
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating		7	5	
		Brio	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	ocation Code: MAIN, S			, Rise (mm): 800, Type: MP)
Barrel Last Accessible Date				Viewed from ends, shape and condition appear good.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	Shape appears good, not able to see much.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	Silt covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	}pan (r	<u>nm):</u>	, Rise (mm): 800, Type: MP)
Coating		N	5	Minor superficial rust lower 1/3.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		Х	3	Above S.B.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy	T	X	5	Drift in culvert.
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)	Yes			
Barrel General Rating		N	N	Previously rated "7" on 24/Nov/2005.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	lary Span)			
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		N	5	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	2000			
Scour Protection		N	5	
(Type: <b>NATURAL</b> )				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	5	
Beavers (Y/N)				
Downstream End General Ratio	ng	7	5	
		S	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	(Drift @ crown of 800 mm. 24/Nov/2005)
Bank Stability		N	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

					Mai	ntenance Re	ecommen	dations							
Inspector Recommen	ndations	Ye	ear li	nspector	Comments			Department Comments						Est. Cost	Cat #
SHOTCRETE REPAI	IRS														
PLACE ADDITIONAL	RIP RAP														
REMOVE DRIFT ACC	CUMULATION														
INSTALL CONCRETI	E/STEEL LINING														
INSTALL STRUTS															
INSTALL CONCRETI	E COLLAR/CUTC	)FF													
REPAIR SEAMS															
OTHER ACTION															
OTHER ACTION															
OTHER ACTION															
OTHER ACTION															
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rat (%)				ating (Last/	Now)	56.9/47.4	Est	t. Repl. Yr	2027	M	laint. Re	qd. (Y/N)	No		
Special (80 Comments for Next Inspection 12	00mm dia pipe ins 100's24-Nov-2009	stalled betw 5)	ween 12	00mm dia	a. pipe and ap	prox 1.0m h	igher than	Department Comments							
Maintenance Review	ed By							Date			E	Estimat	ted Tota	1 0	
Proposed Long-Term	•													_	
On 3-Year Program (	Y/N)														
Proposed Action															
Previous Inspector's I	Name	Jacob Ore	esile				Previous	Assistant's Name							
Next Inspection Date		20-Oct-20	)15				Previous	Inspection Date		02-Feb-2009					
Inspection Cycle (Def		39						,							
Comment	) ()														