Bridge Culvert Inspection														
Bridge File Nun	dge File Number 80650 -1 Bridge Culvert						Form Type			CUL1				
Year Built 1983							Lot No.			4				
Bridge or Town Name LAKE ISLE							Inspect	or Name	•	Kris Bosters				
Located Over	AL-ANIMAL, OVER SP					Inspector Class			BR CLS A					
Located On		633:02	C1 7.940				Assistant Name			Brian Cote				
Water Body Cl.	/Year							Assistant Class						
Navigabil. CI./Y	'ear							Inspection Date			20-Jul-2012			
Legal Land Loc	ation	SW SE	SEC 1 TWP 54 RGE 6 W5M					Data Er	Data Entry By Theresa Lacusta					
Longitude, Latit	tude	-114:45	45:47, 53:37:51 I					Data Er	Data Entry Date 20-Aug-2012					
Road Authority		Alberta	rta Transportation (AIT)					Review	er Name	•	Eric Carcoux			
Contract Main.	Area	CMA12	2					Review Date 1			19-Aug-2012			
Clear Roadway	/Skew	10 /						Dept. R	Dept. Reviewer Name Brent Herrick					
AADT/Year		440 / 20	011 (A)					· ·			22-Aug-2012			
Road Classifica	ation	RCU-2	09-110					Follow-	Follow-Up By					
Detour Length	(km)	20												
Bridge Culvert	t Inform	ation												
Number of Culv	Number of Culverts 1													
Pipe #	Barrel		Span		Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-		2200		MP		29		125X26	2.8	ROUND	
Special Feature	es													
Special Feature	es Comr	ment												
	0		• ()			Po	sting li	nformati	on					
Required Vert.				NI-										
Posted Vertical			·	No				NI-						
Posted: Lane EB On Bridge (m) In Advance (Y/N) No Lane WB On Bridge (m) In Advance (Y/N) No														
Remarks						Uti	lities (I	Located	at)					
Utility Attachme	ents									-				
Telephone	South	r/w.						Gas						
Power	2 wire	es 19 m south c/l.						Municip	al					
Others								Problem	n (Y/N)	No				
Remarks	File ta	ng U/S, N	North.											
					Α	pproad	ch Roa	d / Emba	nkment					
						Last	Now	Explan	ation of	Condi	tion			
Horizontal Aligr						7	7	Farm entrances to East and field.						
Vertical Alignm						7	7							
Roadway Width	ר (m)		10.000											
Embankment					N	7								
Sideslope (_:1)		3.0											
(Height of Co	ver(m) :	0.8)												
Guardrail (Y/N) No														
Approach Roa	d / Emb	bankme	nt Genera	l Rat	ing	7	7							
Upstream End														
Culvert Component					ation of	Condi	tion							
Direction						N								
End Treatment (Concrete, Steel, NONE Others, None)														
Headwall				X	X									
Collar						X	X							

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		Х	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200		1							
Scour Protection		N	7							
(Туре :)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Upstream End General Rating		8	7							
		Bric	lge Cu	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2200, Type: MP)						
Barrel Last Accessible Date	20-Jul-2012									
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		N	7	Minor dents @ both ends, no problem. Dirt on floor. Could not measure. Roof appears to be in good						
Measured Rise (mm)				Dirt on floor. Could not measure. Roof appears to be in good condition.						
Measured At Ring No.	asured At Ring No. 2			Estimated 2100 @ R2 from North.						
Sag (mm)										
Percent Sag	5									
Sidewall	1	7	7							
Measured Span (mm)	2275			-						
Measured At Ring No.	2			-						
Deflection (mm)	75			-						
Percent Deflection	3		1							
Floor		N	N	Covered with mud.						
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)			1							
Circumferential Seams		5	5							
Separation (mm)	30									
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)			_							
Coating		7	7	Minor superficial rust.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									

Alberta Transportation

Late Lose Lose <thlose< th=""> Lose Lose <th< th=""><th></th><th></th><th>Brie</th><th>dae Cu</th><th>Ivert Barrel</th></th<></thlose<>			Brie	dae Cu	Ivert Barrel
Pipe f: 1, Primary Span, Location Code: MAIN, Span (mm): Rise (mm): 2200, Type: MP) Camber POS/ZERONEG NEG ✓ Sonding (YN) No ✓ ✓ Same Adequacy X X Same Adequacy X X Same Adequacy X X Same Adequacy X X Loing (YN) No X X Same Adequacy X X X Loing (YN) No X X Same Adequacy X X X Loing (YN) No X X Same Adequacy NONE X X Same Adequacy X X X Same Adequacy X X X Same Adequal	Culvert Component				
Panding (YN) No Image: Participation of Condition Fish Passage Adequacy X X Satile X X Satile X X Sating (YN) No X X Sating (Concrete, Stepl, NONE X <t< td=""><td>(Pipe # : 1, Primary Span, Loca</td><td>tion Code: MAIN, Spa</td><td>an (mm</td><td>ı):</td><td>, Rise (mm): 2200, Type: MP)</td></t<>	(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 2200, Type: MP)
is in Passage AdequacyXXaritieXXaritieXXaritieXXWaterway AdequacyXXLing (Y/N)NoISitting (Y/N)NoIDati (Y/N)NoISarrel General Rating77Torel General Rating77Strene ComponentLastNoLing (Y/N)NoIInd ComponentLastNoInd Torel SXXStrene MonellXXCollarXXSould WallsXXSevel EndXXSevel EndXXSevel EndXXSould WallsXXSould WallsXYSould Stream Bod BeLOWXXSould TorologionXYSould Stream Bod BeLOWXXSould Stream Bod BelowXYSould Stream Bod BelowXYSould Stream	Camber POS/ZERO/NEG	NEG			
SafeXXType :)XXUsing (Y/N)NoSitting (Y/N)NoSitting (Y/N)NoDrit (Y/N)NoSarel General Rating77Toma (Y/N)NoSate (Second Rating (Concrete, Steel, None)YFallen (Concrete, Steel, None)Sitting (Y/N)NoSSolidarXXSolidarXXStarel General RatingXXSate (Second Rating	Ponding (Y/N)	No			
Type :) X X Valeray Adequacy X X Ling (Y/N) No X Sitting (Y/N) No X Sitting (Y/N) No X Drift (YN) No X Sater General Rating T T Control (YN) No X Sater General Rating T T Control (YN) No X Control (YN) X X Sevel End X X Sevel End X X Above/Below (Rm) X X Sevel End EE COW X Above/Below (Rm) No X Course Control (YN) No X Course Control (YN) No X Sevel End X Y Sevel End X Y Course Control (YN) X Y	Fish Passage Adequacy		Х	X	
Waterway AdequacyXXXleing (Y/N)No-Drift (Y/N)No-Barrel General RatingTTJarrel General Rating-TJuber ComponentLast-Luber ComponentLast-DirectionS-DirectionS-DirectionNo-SourcetionNo-CollarNONE-Collar-XKXCollar-XKXCollar-XKXCollar-XKXCollarCollarCollar-XKXCollarSourCetocionBELOW-Above/Below (rmm)10-IoonSourCetocionX7Crype :Crype :Crype :SourCetocionX7Radeomy Elo General Ratio7SourCetocionX7SourCetocion-7SourCetocion-7Crype :Crype :SourCetocion-7SourCetocion-7SourCetocion-7SourCetocion-7SourCetocion <td< td=""><td>Baffle</td><td></td><td>Х</td><td>Х</td><td></td></td<>	Baffle		Х	Х	
leing (Y,N)NoNoSitting (YN)NoNoSarrel Goneral Rating77T77Curvert ComponentLastNowSitting (YN)NoNoDirectionSSSitting (YN)NONESSitting (YN)NONESSitting (YN)NONESSitting (YN)NONESSitting (YN)NONESSitting (YN)NONESSitting (YN)NONESSitting (YN)XXSitting (YN)XXSitting (YN)SXSitting (YN)SXSeavel EndXXSeavel Site (Mm)100SSeavel Site (Mm)100SSeaver Site (Mm)100SSeaver Site (Mm)NoSSeaver Site (MN)NoSSeavers (YN)NoSSeavers	(Type :)				
NoNoImage: NoDrift (VN)NoImage: NoSarel Goneral RatingNoImage: NoSarel ComponentLastNowEnderation of ConditionImage: NoDirectionSExplanation of ConditionOrderation (Concreto, Stool)NONEImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoCollarXXImage: NoSevel EndELOWXXAbove/Below Kream BdBELOWImage: NoCour ProtectionImage: NoImage: NoCour Pro	Waterway Adequacy		Х	Х	
Drift (Y/N) No Image: No Image: No Image: No Barrel General Rating V K K Converted Rating Image: No V Explanation of Condition Direction S V Explanation of Condition Direction NONE V Explanation of Condition Direction NONE V V Frankment (Concrete, Steel, None X X X Collar NONE X X X Collar X X X X Server (Sring m) S X X X Server End ELOW X X X Above/Below (mm) BELOW X X X Above/Below (mm) BELOW X X X Above/Below (mm) BELOW X X X Above/Below (mm) No X X X Above/Below (mm) No X X X </td <td>Icing (Y/N)</td> <td>No</td> <td></td> <td></td> <td></td>	Icing (Y/N)	No			
Barrel General Rating7777Cluster ComponentLastNoteExplanation of ConditionDirectionSSCondration Concrete, SteelNONEXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXCollarXXXMaxing (mm)AXXAbove/Below Streem BelowBELOVXXAbove/Below Streem BelowAXXCrype : JXXXCrype : JXXXCrype : JXYCondard Stream End General AstroXYCondard Strateger EndXYCondard Strateger EndXYCrype : JXXXCrype : JXXCrype : JXXCrype : JXXCrype : JXXCrype : JXXCrype : JX </td <td>Silting (Y/N)</td> <td>No</td> <td></td> <td></td> <td></td>	Silting (Y/N)	No			
VolVolVolColspan="2">VolVolColspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"XXColspan="2"XXColspan="2"XColspan="2"XColspan="2"XXXColspan="2"XXXXXXXColspan="2"XXXXXXXXXXXXXXXXXXXXXX	Drift (Y/N)	No			
Calvert ComponentLatsVevExplanation of ConditionDirectionSCondrest NonesNONESEadwallXXEadwallXXCollarXXCollarXXCollarXXCharges nonesXXCharges nonesXXCollarXXCharges nonesXXCharges nonesXYCharges nonesXYCharges nonesXYCharges nonesXYCharges nonesXYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYYCharges nonesYY <t< td=""><td>Barrel General Rating</td><td></td><td>7</td><td>7</td><td></td></t<>	Barrel General Rating		7	7	
Direction S Ind Treatment (Concrete, Steel, bitners, Nono) NONE teadwall X X teadwall X X Collar X X Collar X X (Shape :) X X Sevel End X X Heaving (mm) BELOW Image: Collar (Collar (Colla			D	ownst	ream End
Ind Treatment (Concrete, Steel NONENNEImage: Step 1Schape:	Culvert Component			Now	Explanation of Condition
There, None)Image: Severe and the severe	Direction		S		-
CollarXXCollarXXCollarXX(Shape:)XX(Shape:)XXSevel EndXXHeaving (mm)XXMeaving (mm)100	Others, None)	NONE		1	
NingwallsNoNo(Shape:)XXSadevel EndXXHeaving (mm)CXInvert Above/Below Stream BedBELOW	Headwall		X	X	
(Shape :)Cutoff WallXXSevel EndXXHeaving (mm)XXInvert Above/Below Stream BedBELOWImage: Stream	Collar			Х	
Cutoff WallXXXBevel EndXXHeaving (mm)IInvert Above/Below Stream BedBELOWAbove/Below (mm)100Scour ProtectionX7(Type :)X7(Avg. Rock Size(mm) :)X7Scour/ErosionX7Beavers (Y/N)NoIScour/ErosionX7Ownstream End General Rating77Image: State Sta	Wingwalls			Х	
Image: Severe and the severe and t	(Shape :)				
Heaving (mm)Image: Constraint of Conditionnvert Above/Below Stream BedBELOWImage: Constraint of ConditionAbove/Below (mm)100Image: Constraint of ConditionScour ProtectionX7(Type :)X7(Avg. Rock Size(mm) :)X7Scour/ErosionX7Beavers (Y/N)NoImage: Constraint of ConditionBeavers (Y/N)NoImage: Constraint of ConditionCownstream End General RationT7Tade SeparationT7Road Alignment77Road AlignmentT7(Type :)Image: Constraint of ConditionCing (Y/N)NoImage: Constraint of ConditionIraftic Safety FeaturesXXTypeImage: Constraint of ConditionIraftic Safety FeaturesXXTypeImage: Constraint of ConditionIraftic Safety FeaturesXXXXXTypeImage: Constraint of ConditionImage: Constraint of Constraint of ConditionImage: Constraint of ConditionImage: Constraint of Constraint of ConditionImage: Constraint of Constraint of Conditi	Cutoff Wall			Х	
nvert Above/Below Stream Bed BELOW 100	Bevel End		Х	Х	
Above/Below (mm)100 $<$ Scour ProtectionX7(Type :) (Type :) (Avg. Rock Size(mm) :)X7(Avg. Rock Size(mm) :)X7Scour/ErosionX7Beavers (Y/N)NoX7Ownstream End General RatioY7Downstream End General RatioYYScour/ErosionLastNowEndescentroExplanation of ConditionStade SeparationYYRoadway Surface77(Type :)YYCing (Y/N)NoVInfic Safety FeaturesXXTypeXInfingXXInfingXXInfingXXInfingXXInfingXXInfingXXInfingXXInfingXXInfingXX	Heaving (mm)				
Scour Protection X 7 (Type :) (Avg. Rock Size(mm) :) X 7 Scour/Erosion X 7 Beavers (Y/N) No X 7 Downstream End General Rating 7 7 7 Courter Structure Usage Explanation of Condition Explanation of Condition Grade Separation 7 7 7 Road Alignment 7 7 7 Roadway Surface 6 6 (Type :) Vo Vo Fraffic Safety Features X X Type V X X Ighting X X X	Invert Above/Below Stream Bed	BELOW			_
(Type :) (Ag. Rock Size(mm) :) X 7 Scour/Erosion X 7 Beavers (Y/N) No 7 Ownstream End General Rative 7 7 Last No Explanation of Condition Scour/Erosion 7 7 Road Alignment 7 7 Road Alignment (Type :) 7 7 Citype :) 1 7 Citype :) X X Traffic Safety Features X X Type X X ighting X X	Above/Below (mm)	100			
(Avg. Rock Size(mm) :)XX7Scour/ErosionNoX7Beavers (Y/N)No I I Downstream End General Ratio77Downstream End General Ratio1VExplanation of ConditionExplanation of ConditionGrade Separation77Road Alignment77Road Alignment77Roadway Surface66(Type :)66Traffic Safety FeaturesXXTypeI I LightingI I IXXYapeI I IXXYapeI I IXXYapeXYape	Scour Protection		X	7	
Scour/ErosionXYYYBeavers (Y/N)No I I Downstream End General RatioTYYDownstream End General RatioTTTCourceLastNowExplanation of ConditionGrade SeparationTYYRoad AlignmentYYMudRoadway Surface66(Type :)TYCrig (Y/N)NoIITraffic Safety FeaturesXXTypeIXXLightingIIIIXXIXXIXXIXXIXXIXXII <td< td=""><td></td><td></td><td></td><td></td><td>_</td></td<>					_
Beavers (Y/N)NoIIBeavers (Y/N)NoITDownstream End General RatioTTImage: Constraint of ConditionImage: Constraint of ConditionGrade SeparationImage: Constraint of ConditionGrade AlignmentTTRoad AlignmentTTRoadway SurfaceImage: Constraint of Condition(Type :)Image: Constraint of ConditionGraffic Safety FeaturesXXTypeImage: Constraint of ConditionImage: Constraint of ConditionImage: Constraint of ConditionRoadway SurfaceTTImage: Constraint of ConditionImage: Constraint of ConditionGraffic Safety FeaturesXXTypeImage: Constraint of ConditionImage: Constraint of ConditionImage: Constraint of ConditionImage: Constraint of ConditionTImage: Constraint of ConditionImage: Constraint of ConditionImage: Constraint of Constraint of ConditionImage: Constraint of ConditionImage: Constraint of Constrain					
Downstream End General Rating 7 7 Structure Usage Last Now Explanation of Condition Grade Separation 7 7 Mud Road Alignment 7 7 Mud Road Alignment 6 6 (Type :) No X X cing (Y/N) No X X Type X X Lighting X X	Scour/Erosion		X	7	
Image: Structure Usage Structure Usage Structure Usage Structure Structure Structure Usage Structure	Beavers (Y/N)	No			
Last Now Explanation of Condition Grade Separation 7 7 Road Alignment 7 7 Roadway Surface 6 6 (Type :) 6 6 raffic Safety Features X X Type 6 7 .ighting X X	Downstream End General Ratin	ıg	7	7	
Grade Separation 7 7 Road Alignment 7 7 Roadway Surface 6 6 (Type :) 6 6 cing (Y/N) No ✓ Fraffic Safety Features X X Type ✓ ✓ ighting ✓ ✓				1	
Road Alignment 7 7 7 Roadway Surface 6 6 (Type :) 6 6 cing (Y/N) No Traffic Safety Features X X Type Lighting X X			Last	Now	Explanation of Condition
Roadway Surface 6 6 (Type :) V V V cing (Y/N) No V X Traffic Safety Features X X Type X X ighting X X				-	NAI
(Type :)No X X Traffic Safety FeaturesXXType X XightingXX	-				
cing (Y/N)No X X Traffic Safety FeaturesXXType X X LightingXX			6	6	
Traffic Safety Features X X Type X X Lighting X X	(Type.)				
Type X X	Icing (Y/N)	No			
Type International Internation	Traffic Safety Features		Х	Х	
Barrel Leakage (Y/N) No	Lighting			X	
	Barrel Leakage (Y/N)	No			

Structure Usage									
		Last	Now	Explanation of Condition					
Drainage			5						
Structure In Use (Y/N) Yes									
Grade Separation General Rati	ng	5	5						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Cor	nments		Target Year	Est. Cost	Cat #		
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 (%)	v) 8	81.9/80.8 Est. Repl. Yr 203		2032	Maint. Reqd. (Y/N) No		No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	stimated Total	I 0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Jacob	Oresile	Pre	Assistant's Name								
Next Inspection Date 20-0		-2015	Pre	evious li	s Inspection Date 02-Feb-2009							
Inspection Cycle (Default) (months) 39												
Comment												