Bridge Culvert Inspection															
		77491 -1 Bridge Culvert						Form Type		CUL1					
Year Built 1976						Lot No.		1							
Bridge or Town Name EXSHAW						Inspector Name			Garry Roberts						
Located Over KING CREEK, 2.13.56.18, WAT				ERCR	S-ST	1	or Class		BR CLS A						
Located On		40:12 C1	0.217					nt Name							
Water Body Cl./Year								nt Class							
Navigabil. CI./Y							Inspection Date			01-Apr-2013					
Legal Land Loc			25 TWP 20 R	GE 9 W5	М		, ,			Lauren Korte					
Longitude, Latit			15:06:35, 50:43:05					ntry Date		11-Apr-2013					
Road Authority			Iberta Transportation (AIT)					er Name		Tom Carey					
Contract Main. Area CMA28								Date		10-Apr-2013					
Clear Roadway/Skew 10.8 /							· · ·			Tim Davies					
AADT/Year			90 / 2012 (A)					Review Da	ate	06-May-2013					
Road Classifica		RAU-209	9-110				Follow-Up By								
Detour Length	· · · · · · · · · · · · · · · · · · ·	3													
Bridge Culvert Information Number of Culverts 1															
Pipe #	Barrel	1	Span	Pico (or		Туре		Longth		Corr. Profile	PI./Slab	Shape			
г ipe #	Danei		-	Rise (or		Type		Length		Con. Fiolile	Thickness	Shape			
1	MAIN	3	3185	3520		SPE		125		152X51		ELLIPSE			
Special Feature	es	5	SHOTCRETE	BEAM											
Special Features Comment															
Utilities (Located at)															
Utility Attachme	ents														
Telephone	West	r/w.					Gas								
Power							Municipal								
Others							Problem (Y/N) No								
Remarks															
				Α	pproad	ch Road	d / Emba	ankment							
				Last	Now	Explan	ation of	Condit	ion						
Horizontal Aligr	Horizontal Alignment				7	7	Interse 300 m	ction to p	ark roa	d 140					
Vertical Alignm	ent				7	7	500 m	South.							
Roadway Width	Roadway Width (m)		10.800												
Embankment					7	7									
Sideslope (	_:1)		2.5												
(Height of Cover(m) : <b>18</b> )							1								
Guardrail (Y/N)		· · ·	Yes												
Approach Roa	d / Em	bankmen	t General Rat	ing	7	7									
						linstra	am End								
Culvert Compo	onent				Last			ation of	Condit	ion					
Direction					E	1	East.								
End Treatment (Concrete, Steel, CONCRETE															
Others, None) Headwall			7	7											
Collar			6	6	6 average 3mm wide cracks.										
			X	X											
Wingwalls				X	Ň	1									
(Shane · )						7.									
(Shape : ) Cutoff Wall					6	6									

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			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
Bevel End	1	6	6	_						
Heaving (mm)	150									
Invert Above/Below Stream Bed	BELOW			-						
Above/Below (mm)	400		-							
Scour Protection		6	6							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 400)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Upstream End General Rating		6	6							
		Brid	dae Cu	lvert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			•						
Barrel Last Accessible Date	01-Apr-2013									
Special Features			-							
Special Feature		6	6	Shotcrete beams in 15 rings.						
(Type : SHOTCRETE BEAM)				-						
Special Feature										
(Туре:)			_							
Roof	1	4	4	Rings numbered incorrectly.						
Measured Rise (mm) 3210				Based on deflections.						
Measured At Ring No. 18				Ice in R18- could not confirm.						
Sag (mm) 310										
Percent Sag	8									
Sidewall		3	3	Based on longitudinal seam cracks with less than 100mm remaining						
Measured Span (mm)	3110			steel.						
Measured At Ring No.	18			_						
Deflection (mm)	225									
Percent Deflection	7									
Floor		5	5	4 D/S rings are rock covered.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		7	7							
Separation (mm)	0									
Longitudinal Seams		3	3	Ring Remaining Steel Bolts						
Total No. of Cracked Rings	9			3 110mm 3 - 4 60mm all - photo						
Total No. of Rings with Two Cracked Seams	0			7 105mm 6 10 135mm 5						
Min. Remaining Steel 60 Between Cracks (mm)				22 120mm 5 26 105mm 18 28 120mm 5						
Proper Lap (Y/N) No				31 120mm 4						
Longitudinal Stagger (Y/N) Yes				36 78mm No change from previous.						
Coating		4	4	Corrosion with pitting.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel											
Culvert Component		1		Explanation of Condition							
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3185, Rise (mm): 3520, Type: SPE)											
Fish Passage Adequacy		5	5								
Baffle		Х	Х								
(Туре : )											
Waterway Adequacy		7	7	400mm rock at 4 D/S rings.							
Icing (Y/N)	No										
Silting (Y/N)	Yes										
Drift (Y/N)	No										
Barrel General Rating		3	3								
Downstream End											
Culvert Component	Culvert Component			Explanation of Condition							
Direction	1	W		-							
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall		X	X								
Collar		X	Х								
Wingwalls		X	Х								
(Shape : )			1								
Cutoff Wall		X	X								
Bevel End		7	7								
Heaving (mm)	0										
Invert Above/Below Stream Bed	BELOW			-							
Above/Below (mm)	600		1								
Scour Protection		7	7	Bevel projects 300mm from fill.							
(Type : <b>RIP RAP</b> )											
(Avg. Rock Size(mm) : <b>500</b> )											
Scour/Erosion		7	7								
Beavers (Y/N)	avers (Y/N) No										
Downstream End General Ratin	Downstream End General Rating										
		S	Structu	re Usage							
				Explanation of Condition							
Channel (U/S and D/S)											
Alignment			7								
Bank Stability			7								
HWM (m below Top of Culvert) 0.5				No visible HWM.							
vrift (Y/N) Yes				Minor drift in channel.							
Channel Bottom AGGRADING Degrading/Aggrading				At D/S.							
Beavers (Y/N)	No										
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)		1								
Channel General Rating		7	7								

Maintenance Recommendations													
Inspector Recommendations			Year Inspector Comments				Department Com	nmen	Target Year	Est. Cos	st Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITION	IAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
INSTALL CONCR	ETE/STEEL LINING												
INSTALL STRUTS	INSTALL STRUTS												
	INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS	REPAIR SEAMS												
OTHER ACTION													
	OTHER ACTION												
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			33.3/33.3		Sufficiency Rating (Last/Now) (%)		54.7/54.6		t. Repl. Yr 2025		Maint. R	eqd. (Y/N)	No
Special Comments for Next Inspection Shape appears good despite deflections. Crac over last several inspections. (GR April 1/13).					ck growth appears to hav	ve stabilized	Department Comments						
Maintenance Reviewed By							Date				Estimated Tot	al 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Garr			Roberts		Previous	Assistant's Name							
Next Inspection Date 01-		01-Jan	-2015			Inspection Date 26-May-2011							
Inspection Cycle (Default) (months) 21		21											
Comment													