Bridge Culvert Inspection													
Bridge File Numbe	er 74830	74830 -1 Bridge Culvert				Form Type		CUL1					
Year Built	1957					Lot No.			4				
Bridge or Town Na	ame THREE	HILLS				Inspect	or Name		Owen Salava				
Located Over	2ND O	RDER TRIBUT	ARY TO T	HREE	HILLS	Inspect	or Class		BR CLS A				
Located On	21.14 (	21 21 736	ATEROR	5-01		Assista	nt Name		CUL1 4 Owen Salava BR CLS A I8-Sep-2012 Marcia Chavez 03-Oct-2012 John O'Brien 27-Sep-2012 Andrew Smikles 16-Oct-2012 Corr. Profile PI./Slab Thickness 152X51 3.5 ELLIPSE Corr. Profile VI./Slab Thickness ELLIPSE ELL				
Water Body CL/Ye	ear	5121.700				Assista	nt Class						
Navigabil CL/Yea	ar			Inspec			Inspection Date		18-Sep-2012				
Legal Land Locati	ion SE SE	C 24 TWP 30 R	GE 24 W4	1M		Data Entry By			Marcia Chavez				
Longitude, Latitud	le -113:14	1:38. 51:34:41	022111			Data Entry Date		03-Oct-2012					
Road Authority	uthority Alberta Transportation (AIT)					Reviewer Name		John O'Brien					
Contract Main. Are	Area CMA20					Review	Date		27-Sep-2012				
Clear Roadway/Sl	kew 9.9 /					Dept. Review Date			Andrew Smikles				
AADT/Year	2,490 / 2011 (A)					Eollow-Up By			16-Oct-2012				
Road Classificatio	on RAU-2	11.8-110				Follow-Up By							
Detour Length (kn	n) 3												
Bridge Culvert In	formation												
Number of Culver	ts	1											
Pipe # Ba	arrel	Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 M	AIN	1724	1901		SPE		31		152X51	3.5	ELLIPSE		
Special Features													
Special Features	Comment												
				114			-1)						
Litility Attachment	e l			Uti	inties (L	ocated	at)						
Telephone V	Nest ditch					Gas							
Power							Municipal						
Others F	Fibre optic E	r/w.				Problem (Y/N) No							
Remarks	rks												
	Approach Road / Embankment												
						Explanation of Condition							
Horizontal Alignment				8	8	Crest curve to South, no passing SBL, good sight distance.							
Vertical Alignment				6	6								
Roadway Width (r	m)	9.900											
Embankment				6	6	Wide tr	Wide transverse crack over pipe (photo).						
Sideslope (:1) 4.0						_							
(Height of Cover	r(m) : <b>1</b> )												
Guardrail (Y/N)		Yes											
Approach Road	/ Embankme	nt General Rat	ing	6	6								
					Upstre	am Fnd							
Culvert Compone	ent			Last	Now	Explan	ation of	Condi	tion				
Direction		·		Е									
End Treatment (C Others, None)	concrete, Stee	el, STEEL											
Headwall				х	Х								
Collar				Х	Х								
Wingwalls				Х	Х								
(Shape : )						1							
Cutoff Wall			Х	Х									

Alberta Transportation

		Upstream End							
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 900									
Scour Protection		7	7	Well vegetated.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion			7						
Beavers (Y/N)	No								
Unotroom End Conorol Dating		7	7						
Opstream End General Rating			<b>'</b>						
		Bric	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm)	): 1724	, Rise (mm): 1901, Type: SPE)					
Barrel Last Accessible Date 18-Sep-2012				(VE 5% - Design size 1724 x 1901 Top of silt to roof 1.0 at D/S, 04-Mar-2006).					
Special Features									
Special Feature									
(Type : )									
Special Feature									
(Type : )									
Roof		7	7	(Estimate roof 1895, 04-Mar-2006)					
Measured Rise (mm)			1						
Measured At Ring No				-					
Sag (mm)	6			-					
Percent Sag									
Sidowall		7	7						
Mossured Span (mm)	1745		1						
Mossured At Ping No	6								
Deflection (mm)	21								
Percent Deflection	1			1.2%					
		NI	NI	000 mm silt Net visible					
Pulgo (mm)		IN		900 mm slit.Not visible.					
Buige (IIIII)				(Abrasian-No. 04Mar2006)					
	No								
	INU	7	7						
Circumferential Seams		1	/	Where visible.					
Separation (mm) 0									
Longitudinal Seams	0	7	7	Lower seams not seen because of silting. Upper seams rate "7".					
Total No. of Cracked Rings	0								
Min. Remaining Steel									
Between Cracks (mm)	Na			-					
Proper Lap (Y/N)	INO			-					
Longitudinal Stagger (Y/N) Yes			-						
Coating		6	6	Superficial corrosion at exterior of roof at D/S Alkali at bolt holes -					
Corrosion By Soil (Y/N)	Yes			minor.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last Now		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	<u>n (mm</u>	): 1724	, Rise (mm): 1901, Type: SPE)					
Fish Passage Adequacy			X						
Baffle			X						
(Type : )									
Waterway Adequacy		7	7	No water in pipe.					
Icing (Y/N)	No			Siltation to 900 mm at D/S.					
Silting (Y/N)	Yes								
Drift (Y/N) No									
Barrel General Rating			7						
Downstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction	rection								
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall			X						
Collar		Х	X						
Wingwalls		Х	Х						
(Shape: )			N/						
Cutoff Wall		X	X						
Bevel End	1	7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	Invert Above/Below Stream Bed BELOW								
Above/Below (mm)	900		1						
Scour Protection		7	7	Well vegetated.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>300</b> )			1						
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	7	7						
		S	tructur	e Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			7	No defined channel.					
Bank Stability			8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comm	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											
OTHER ACTION											
OTHER ACTION										_	
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 7	77.8/77.8	8 Sufficiency Rating (Last/No (%)	ow) 7	75.4/75.4	Est. Repl. Yr 2025		Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection			times of high water.		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 Dave L		ave Lam Prev			us Assistant's Name						
Next Inspection Date 18-Ju		18-Jun-2014			nspection Date						
Inspection Cycle (Default) (months) 21											
Comment											