Bridge Culvert Inspection													
Bridge File Numb	idge File Number 01832 -1 Bridge Culvert					Form Type		CUL1					
Year Built	Built 1955						Lot No.		4				
Bridge or Town N	Name ELKW	/ATER			Inspect		or Name		Tom Carey				
Located Over	BULL	SHEAD CREEK	, 2.7.2, WA	ATERCRS-		Inspector Class		BR CLS A					
Located On	514.0	2 C1 0 963				Assistant Name							
Water Body CL/X	/ear	2 01 0.303					Assistant Class						
Navigabil CL/Year						Inspection Date		12-Mar-2012					
Legal Land Locat	tion SW S	FC 7 TWP 8 RG	F 3 W4M			Data Entry By		Anne Roberts					
						Data Entry Date		08-Apr-2012					
Road Authority Alberta Transportation (A			(AIT)	(AIT)			Reviewer Name		Garry Roberts				
Contract Main. Area CMA23			()			Review Date		24-Mar-2012					
Clear Roadway/Skew 12 / 42 deg. (RHF)							Dept. Reviewer Name		Tim Davies				
AADT/Year	70 / 2	011 (A)	(A)				Dept. Review Date		17-Apr-2012				
Road Classification	on RCU-	209-110	10			Follow-Up By							
Detour Length (k	m) 10												
Bridge Culvert Information													
Number of Culve	rts	1								1			
Pipe # B	Barrel	Span	Rise (or D	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	IAIN	2027	2240		SPE		69.6		152X51		ELLIPSE		
Special Features	;												
Special Features	Comment												
				1 14	litios (I	ocatod	at)						
Utility Attachmen	ts			01	nues (L	ocaleu	aty						
Telephone	elephone West side Gas												
Power		Municipal											
Others					Problem (Y/N) No								
Remarks													
			Ар	proad	ch Road	l / Emba	nkment						
					Now	Explanation of Condition							
Horizontal Alignment				5	5	In start of "S" curve, goes to North.							
Vertical Alignmer	nt			6 6									
Roadway Width (m)		11.200	11.200										
Embankment				7 7		6m berm West, then 6:1.							
Sideslope (:1	1)	4.0				-							
(Height of Cove	er(m) : 2.5)												
Guardrail (Y/N)		No											
Approach Road	/ Embankm	ent General Ra	ting	5	5								
					Upstre	am End							
Culvert Component					Now	Explanation of Condition							
Direction			1	E		East							
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				Х	Х								
Collar				Х	Х								
Wingwalls				Х	Х								
(Shape :)													

Alberta Transportation

	1		Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall		Х	Х						
Bevel End		6	6	(5 bolts in circumferential seams missing) 2 seen, ice on floor.					
Heaving (mm)	Heaving (mm) 50								
Invert Above/Below Stream Bed	vert Above/Below Stream Bed BELOW			Snow covered					
Above/Below (mm)	1100								
Scour Protection	1	N	N	Snow covered, only NE rock at side of bevel seen.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion			N	snow covered					
Beavers (Y/N)	No								
Upstream End General Rating		6	N						
		Bri	d <u>ge Cu</u>	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): <u>20</u> 27	/, Rise (mm): 2240, Type: SPE)					
Barrel Last Accessible Date	12-Mar-2012								
Special Features									
Special Feature									
(Type :)									
Special Feature									
(Type :)									
Roof		6	7	Estimate					
Measured Rise (mm)	2147								
Measured At Ring No	15								
Sag (mm)	93	_		-					
Percent Sag	4			-					
Sidewall		6	7						
Measured Span (mm)	2060		,						
Measured At Ring No	15	_							
Deflection (mm)	33			-					
Percent Deflection	2			-					
Floor	-	N	N	Ice & Snow Covered					
Bulge (mm)	0	IN	IN						
Measured At Ring No	-								
Abrasion (Y/N)	No			1					
Circumferential Seams	-	5	5	Bolts missing or appear not torqued - a few					
Separation (mm)	0		0						
Longitudinal Seams	-	5	5	Not nestled up to 8mm gap ring 4 at South side. 7 missing bolts at					
Total No. of Cracked Rings	0		-	R13 at South.					
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
			7						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	No			1					
Camber POS/7ERO/NEG	NEG								
Camber 1 OG/ZEI(O/NEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

01832 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2027	, Rise (mm): 2240, Type: SPE)						
Ponding (Y/N)	No									
Fish Passage Adequacy			X							
Baffle			Х							
(Туре :)										
Waterway Adequacy		7 7		(At D/S half).						
Icing (Y/N)	No			(From ring 15 to D/S end silt covered up to 400mm).						
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		5	5							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		W		West						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar	Collar									
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		6	6	1 bolt missing @ barrel connection at South						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			snow covered						
Above/Below (mm)	300									
Scour Protection		N	N	snow covered						
(Avg. Rock Size(mm) :)			N							
Scour/Erosion		IN								
Beavers (Y/N)	No									
Downstream End General Ration	ng	6	N							
		s	Structur	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7							
Bank Stability			5	High bank slumping D/S 3m to South.						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Drift (Y/N) No									
Channel Bottom 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	nents	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/Now) (%)		55.6/55.	6 Sufficiency Rating (Last/N (%)	ow) (66.4/64.3 Est. Repl. Yr 2020		2020	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 Tim D		im Davies Pl			evious Assistant's Name						
Next Inspection Date 12-Ju		2-Jun-2015			Previous Inspection Date 12-Mar-2009						
Inspection Cycle (Default) (months) 39											
Comment											