	1			Bridg	e Culve	ert Inspe	ection					
Bridge File Number	76085	-1 Bridge Culve	rt			Form Type			CULM			
Year Built	1965					Lot No.			4			
Bridge or Town Name	NORDEGG					Inspector Name			Owen Salava			
Located Over	TRIBU	ATCH	EWAN	Inspector Class		BR CLS A						
	RIVER	, 6.188, WATER			Assistant Name							
Located On	11:02 (	J1 13.038		Assistant			nt Class					
Water Body Cl./Year						Inspection Date		08-Feb-2012				
Navigabil. Cl./Year		<b>. .</b>		Data Entry By			Marcia Chavez					
Legal Land Location	SE SE	C 15 TWP 35 R	GE 18 W	5M		Data Entry Date			02-Mar-2012			
Longitude, Latitude	-116:29	9:12, 52:00:10				Reviewer Name			John O'Brien			
Road Authority	Alberta	Transportation	(AIT)			Review Date			22-Feb-2012			
Contract Main. Area	CMA18	3		Dept. Reviewe			eviewer	Name	Andrew Smikles			
Clear Roadway/Skew	13 /			Dept. Review Date			09-Mar-2012					
AADT/Year	360 / 2	010 (A)		Follo			Follow-Up By					
Road Classification	RAU-2	13.4-120				-						
Detour Length (km)	300											
Bridge Culvert Inform	nation											
Number of Culverts		2										
Pipe # Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 MAIN		1700	1950		MPE		32.2		68X13		ELLIPSE	
2 MAIN		-	1200		MP		40.7		68X13		ROUND	
Special Features												
Special Features Corr	nment	1200 CSP is p	rimary.									
						_						
				Uti	lities (L	ocated	at)					
Utility Attachments	. ,					0						
Telephone South	) ľ/W.					Gas						
Power												
Others						Probler	n (Y/N)	NO				
Remarks												
			A		Now	Explor	Inkment	Condi	tion			
Horizontal Alianment				6	6		west and	d opet	Hill West & Ea	st Limited sigh	t distance East	
Vertical Alignment				6	6	no pass	Creek" 6					
Roadway Width (m)		13.000				CIEEK .	0					
					_							
Embankment				1	1							
Sideslope (:1)		3.0				-						
(Height of Cover(m)	: <b>1.8</b> )											
Guardrail (Y/N)		No										
Approach Road / Em	bankme	ent General Rat	ing	6	6							
					Upstre	am End						
Culvert Component				Last	Now	Explan	ation of	Condi	tion			
(Pipe # : 1, Span Typ	be: Prima	ary Span)										
Direction						East pi	be. Used	as ove	erflow.			
End Treatment (Conc	rete, Stee	el, STEEL										
Others, None) Headwall				X	X							
Collar			X	X								
Minguella			v	v								
				~	^							

			upstre	am Eng
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			1.0m above 1200 dia invert.
Above/Below (mm)	1000		_	
Scour Protection		7	N	Some Class I rocks. Snow covered.
(Type : <b>RIP RAP</b> )				_
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating	1	7	7	
		Bri	d <u>ge Cu</u>	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	): 1700	), Rise (mm): 1950, Type: MPE)
Barrel Last Accessible Date	08-Feb-2012			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	
Measured Rise (mm)	1950			
Measured At Ring No.	2			
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	1700			
Measured At Ring No.	2			
Deflection (mm)	0			
Percent Deflection	0			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	20			
Longitudinal Seams		X	Х	
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)				1
Coating		6	6	
Corrosion By Soil (Y/N)	No			1
Corrosion By Water (Y/N)	No			1

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>	): 1700	, Rise (mm): 1950, Type: MPE)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		4	4	Stream too steep to accommodate fish.					
Baffle		Х	X						
(Туре : )			1						
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7						
	1	D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)	1							
Direction		S		East pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL		-						
Headwall		Х	X						
Collar		Х	X						
Wingwalls		X	X						
(Shape : )									
Cutoff Wall		Х	X						
Bevel End		6	6	Minor damage to bevel edge.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE			Same elevation as 1200 dia at outlet. Steep streambed.					
Above/Below (mm)	100								
Scour Protection		7	N	Snow covered.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 300)			-						
Scour/Erosion		7	N						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	6	6						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		N		West pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL			Not visible due to ice/snow.					
Headwall		Х	Х						
Collar		Х	X						
Wingwalls		Х	X						
(Shape : )			1						
Cutoff Wall		Х	X						

Bridge Inspection & Maintenance System (Web 2005)

76085 -1 Bridge Culvert

			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		5	N	(Top edge torn off, functional. 05May2010).					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection	•	7	N	(Some Class I rocks. 05May2010).					
(Type : <b>RIP RAP</b> )				Snow/ice covered.					
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		7	N						
Beavers (Y/N)	No								
Upstream End General Rating		7	N	GR would be 5 based on bevel from 05May2010.					
		Bri	dae Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span. Lo	cation Code: MAIN.	Span (	mm):	, Rise (mm): 1200, Type: MP)					
Barrel Last Accessible Date	05-May-2010	`		Pipe not visible due to snow/ice.					
Special Features									
Special Feature									
(Type : )									
Special Feature									
(Type : )			-						
Roof		4	N	(Unable to measure due to ice, 05May2010)					
Measured Rise (mm)	1110								
Measured At Ring No	3			-					
Sag (mm)	90			-					
Percent Sag	7			-					
Sidewall	1	6	N						
Measured Span (mm)	1250	0	IN						
Measured At Ring No	3			-					
Deflection (mm)	50			-					
Percent Deflection	1			-					
Floor	- <b>-</b>	N	N						
Bulge (mm)	0		IN	(Minor. 29/May/2007)					
Measured At Ring No				-					
Abrasion (Y/N)	Ves			-					
Circumferential Seams	100	6	N						
Separation (mm)	20	0							
	20	v	v						
Total No. of Cracked Pings			^						
Total No. of Pipes with Two				-					
Cracked Seams				-					
Min. Remaining Steel Between Cracks (mm)				_					
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		5	N	(Floor rusting. 1/3 wall height superficial. 05May2010).					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		4	4	Steep grade @ D/S streambed.					
Baffle		Х	Х						
(Туре : )									
Waterway Adequacy		7	5						
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	GR carried forward from 05May2010.					
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction		S		West pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL			Covered by snow/ice.					
Headwall		X	X						
Collar			X						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall		X	X						
Bevel End		5	N	(Torn @ roof line. 05May2010).					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			Steep streambed.					
Above/Below (mm)	100		-						
Scour Protection		9	N						
(Type : <b>RIP RAP</b> )				-					
(Avg. Rock Size(mm) : 300)		1	1						
Scour/Erosion	-	9	N						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	N	GR was 5 from 05May2010.					
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability	Bank Stability		5	Cut banks U/S.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING								
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 Comr	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) 44 (%)			4 Sufficiency Rating (Last/No (%)	ow) 5	50.5/44.6	Est. Repl. Yr 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 Owen Salava			F	Previous Assistant's Name								
Next Inspection Date 08-Nov-2013			F	Previous I	Inspection Date 05-May-2010							
Inspection Cycle (Default) (months)	21											
Comment												