Bridge Culvert Inspection													
Bridge File Numbe	r 80778			Form Type		CUL1							
Year Built	1985	1985				Lot No.		4					
Bridge or Town Na	me GROVI	GROVEDALE				Inspect	or Name	Russel Vanderschaaf					
Located Over	er 2ND ORDER TRIBUTARY TO (NK	Inspector Class		BR CLS B					
L ocated On 40:38 C1 48 165				010-0		Assistant Name							
Water Body CL/Yea	ar					Assistant Class							
Navigabil, Cl./Year						Inspect	ion Date	23-Aug-2012	23-Aug-2012				
Legal Land Locatio	n SW SE	C 4 TWP 65 R	GE 5 W6N	Л	Data Entry By			Lisa Fairhurst	Lisa Fairhurst				
Longitude, Latitude	-118:42	2:05, 54:35:32				Data E	ntry Date	28-Sep-2012					
Road Authority	Alberta	Transportation	(AIT)			Review		Eric Carcoux					
Contract Main. Are	a CMA05	;					Dale Poviowor Name	24-36p-2012 Steve Pasquan					
Clear Roadway/Sk	ew 10.2/-	63 deg. (LHF)			Dept. Review Date			Sieve Pasquan					
AADT/Year	1,220 /	2011 (A)			Eollow-Lin By			07-Jan-2013					
Road Classification	RAU-2	11.8-110				гоном-ор ву							
Detour Length (km)) 100												
Bridge Culvert Information													
Number of Culverts	\$	1	1						1				
Pipe # Bar	rel	Span	Rise (or	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape			
1 MA	IN	-	2430		SP		208.5	152X51	4.0	ROUND			
Special Features													
Special Features Comment													
Utility Attachments													
Telephone Gas													
Power 6	ower 6 W o/h W r/w					Munici	bal						
Others	Dthers					Problem (Y/N) No							
Remarks													
Approach Road / Embankment													
					Now	Explanation of Condition							
Horizontal Alignment			8	8	Long gradual sag curve. Passing both directions.								
Vertical Alignment			7	7									
Roadway Width (m) 10.200													
Embankment				N	4	(D/S er	nd N. side of pi	pe (area 20mx20)m) Slide, chan	nel washing			
Sideslope (:1) 3.0					away ti 2mx80	ne toe of slide. 0x30m),SE(600	Ditch erosion gu 0x800x10)NE(80	llies at SW 0x600x20) Sco	ur developing				
(Height of Cover(m) : 16)													
Guardrail (Y/N) Yes					WEST side only.								
Approach Road / Embankment General Rating			ting	7	7								
					Upstrea	am End							
Culvert Compone	nt			Last	Now	Explan	ation of Cond	ition					
Direction				E		_							
End Treatment (Co Others, None)	ncrete, Stee	el, CONCRETE	Ē										
Headwall			7	7									
Collar			N	7									
Wingwalls			X	Х									
(Shape :)													
Cutoff Wall													

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		Ν	4							
Heaving (mm)	75									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection			4	EROSION FROM DITCHES SCOURING ALONG SEDGE OF						
(Type : RIP RAP)				COLLAR						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion			4							
Beavers (Y/N)	No									
Upstream End General Rating			4							
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm):	, Rise (mm): 2430, Type: SP)						
Barrel Last Accessible Date	23-Aug-2012									
Special Features										
Special Feature				-						
(Type:)				-						
Special Feature				_						
(Туре :)			1							
Roof		6	6	Upward deflection						
Measured Rise (mm)	2590			_						
Measured At Ring No.	60			_						
Sag (mm)	160			_						
Percent Sag	7									
Sidewall		4	4	Inward deflection						
Measured Span (mm)	2286			R49 @ 9:00 115mm left between boltsphoto						
Measured At Ring No.	60			_						
Deflection (mm)	149			_						
Percent Deflection	6									
Floor		N	5							
Bulge (mm)	0									
Measured At Ring No.				_						
Abrasion (Y/N)	Yes									
Circumferential Seams		7	7	Staggered 4N						
Separation (mm)	0									
Longitudinal Seams		4	4							
Total No. of Cracked Rings	1			R49 @ 9:00 115mm lett between bolts.						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)	115									
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating		6	5	Minor superficial rust on floor of pipe 400mm wide strip.						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			ı):	, Rise (mm): 2430, Type: SP)						
Fish Passage Adequacy			7							
Baffle			Х							
(Туре :)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			4							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	W		-						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar			X							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall			Х							
Bevel End		N	5	Top of bevel is deflecting inwards						
Heaving (mm)	150			200mm.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	500									
Scour Protection		N	5	Sandstone.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion			5							
Beavers (Y/N)	No									
Downstream End General Ration	ng	5	5							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7							
Bank Stability			7							
HWM (m below Top of Culvert)				Hwm not visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	Channel Bottom NONE			Stable Beaver noted d/s						
Beavers (Y/N)	Yes									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							
-										

Maintenance Recommendations														
Inspector Recommendations Year			Inspector Comments			Department Co	6		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUM	MULATION													
INSTALL CONCRETE/S	TEEL LINING													
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUTOFF														
REPAIR SEAMS														
OTHER ACTION												_		
OTHER ACTION	OTHER ACTION													
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)			44.4/44.4 Sufficiency Rating (Las (%)		st/Now)	52.8/52.8 Est. Repl. Yr 2030		2030	Maint. Reqd. (Y/N) No					
Special Comments for Next InspectionMinor erosion gullies and d/s bevel Monitor cracks at R49 and R23					Department Comments									
Maintenance Reviewed	Aaintenance Reviewed By					Date		Estimated Total 0						
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Russel V			ssel Vanderschaaf Previous A				Assistant's Name							
Next Inspection Date 23-Ma		23-May-2014	3-May-2014 Previous I				ispection Date 24-Nov-2010							
Inspection Cycle (Default) (months) 21		21												
Comment														