Bridge Culvert Inspection														
Bridge File Number 13770		13770 -	1 Bridge Culve		Form Type			CUL1						
Year Built 1982		1982	182				Lot No.		2					
Bridge or Town Name GRAND			NDE PRAIR				Inspector Name			Russel Vanderschaaf				
Located Over 2ND OF			ORDER TRIBUTARY TO BEAR RIVER,					or Class		BR CLS B				
Located On 670.02			2 C1 8 016					Assistant Name						
Water Body CL/Year			010.010				Assistant Class							
Navigabil, CL/Ye					Inspection Date			03-May-2010						
Legal Land Location SE SEC			2 1 TWP 72 R	GE 5 W6M	1		Data Entry By			Theresa Lacusta				
Longitude, Latitude -118:37			:04. 55:11:59		- Data Entry Date			21-Jun-2010						
Road Authority Alberta		a Transportation (AIT)				- Reviewer Name			Arnold Assenheimer					
Contract Main. Area CMA05)5					Date	Nomo	04-Jun-2010					
Clear Roadway/	Clear Roadway/Skew 9.6 /							eviewer	Name	Steve Pasquan				
AADT/Year		2,690/	/ 2009 (A)						ale	10-Sep-2010				
Road Classificat	ion	RCU-20)9-110				F010W-	ор ву						
Detour Length (k	km)	5												
Bridge Culvert Information														
Number of Culve	erts		1											
Pipe # E	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1800		MP		40		125X26	2.8	ROUND		
Special Features	S													
Special Features Comment														
Litility Attachmer	ate				υι	littles (L	ocated	au)						
							Gas		30 M					
Power						Municin	اد	50 101 3						
Others	Survey markers(2)-22m S						Problen	n (Y/N)	Yes	Yes				
Remarks Gasline exposed due to scour at d/s er						to		. (. , ,	1.00					
				A	pproa	ch Road	l / Emba	nkment						
						Now	Explanation of Condition							
Horizontal Alignment				8	8	In sag curve, no passing westbound.								
Vertical Alignment			7	7										
Roadway Width (m)			9.600											
Embankment					8	8								
Sideslope (:	1)		4.0											
(Height of Cov	er(m):	4.5)												
Guardrail (Y/N) No														
Approach Road / Embankment General Rating					7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explan	ation of	Condit	tion				
Direction			N		•									
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall			X	Х										
Collar			X	Х										
Wingwalls			X	Х										
(Shape :)														
Cutoff Wall					Х	Х								

Alberta Transportation

			eam End					
Culvert Component		Last	Now	Explanation of Condition				
Bevel End	1	6	6					
Heaving (mm)	80							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm) 100								
Scour Protection			6					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		N	6					
Beavers (Y/N)	No							
Upstream End General Rating		6	6					
		Brid	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	ı):	, Rise (mm): 1800, Type: MP)				
Barrel Last Accessible Date	26-Feb-2007			Could only go 10m from u/s due to water level-750 to 800mm high.				
				Shape looked good as viewed from d/s end and 10m in from u/s end.				
Special Features								
Special Feature				-				
(Type:)			_	_				
Special Feature				_				
(Туре :)								
Roof		8	N	Estimated. Upward deflection26-Feb-2007				
Measured Rise (mm)				_				
Measured At Ring No.				_				
Sag (mm)	50			_				
Percent Sag								
Sidewall		5	N	Small holes in sidewall near d/s end.				
Measured Span (mm)	1751			@ C/I				
Measured At Ring No.								
Deflection (mm)	49			Inward deflection26-Feb-2007				
Percent Deflection								
Floor		N	N	Under silt.				
Bulge (mm)			_					
Measured At Ring No.				1				
Abrasion (Y/N)	Yes			1				
Circumferential Seams		5	N	First circ. seam pulled out 100mm				
Separation (mm)	60			at 7 oʻclock16-İEB-2007 uNDER WATER.				
Longitudinal Seams		X	X					
Total No. of Cracked Rings				1				
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)				1				
Longitudinal Stagger (Y/N)				1				
Coating		4	4	Pitting rust on lower 1/3.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes			1				
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, Sp	an (mm	ı):	, Rise (mm): 1800, Type: MP)					
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		5	N	GR was '5' -26-Feb-2007					
	1	D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	S		_					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE			_					
Above/Below (mm)	500								
Scour Protection		N	2	_					
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		N	2	0.5mDx5.4mLx4mW scour hole 6m d/s of bevel with exposed gaslinephoto					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	6	2						
		S	Structu	ire Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		8	8						
Bank Stability		4	4	Channel has vertical banks d/s of culvert.					
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		4	4						

Maintenance Recommendations												
Inspector Recommendations		Year Inspector Comments				Department Co	mmen	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC)FF											
REPAIR SEAMS												
OTHER ACTION		2010	Repair se	cour at d/s end and cove	r gas line.							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/55.	6	Sufficiency Rating (Las (%)	st/Now)	60.1/56.2	Es	t. Repl. Yr	2023	Maint. Red	qd. (Y/N)	Yes
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	Brian Pientsch Pre					s Assistant's Name Tim Miskiman						
Next Inspection Date	03-Aug-2013 Previo					s Inspection Date 26-Feb-2007						
Inspection Cycle (Default) (months) 39												
Comment												