Bridge File Nur					Brida	e Culve	ert Inspection						
	mber	78129 -1 Bridge Culvert					Form Type		CULM				
Year Built		2000					Lot No.		4				
Bridge or Towr	n Name		URRAY				Inspector Nam	e		Wade Nanninga			
Located Over			NS CREEK, 8.	11 35 WA	TFRC	CRS-	Inspector Clas		BR CLS A	<u>gu</u>			
Locatoa Ovoi		ST	TO OTTELT, O.	11.00, 1171			Assistant Nam		DIC GLO /				
Located On		63:12 R1	1.140		Assistant Class								
Water Body Cl	./Year						Inspection Dat		15-Nov-2011				
Navigabil. Cl./\	/ear						Data Entry By		Theresa Lacusta				
Legal Land Loc	cation	NW SEC	7 TWP 90 R	GE 9 W4M			Data Entry Date		23-Nov-2011				
Longitude, Lati	tude	-111:26:				Reviewer Name		Eric Carcoux					
Road Authority	<u>'</u>	Alberta 7	Fransportation (AIT) Review Date 23-Nov-2011										
Contract Main.	Area	CMA07						r Name	Brent Herrick				
Clear Roadway	y/Skew	25.8 /					Dept. Review I		15-Dec-2011				
AADT/Year		20,590 /	2010 (A)				Follow-Up By						
Road Classifica	ation	RAD-412	2.4-120										
Detour Length		1											
Bridge Culver		ation											
Number of Cul	verts	2	<u>}</u>	ı									
Pipe #	Barrel	5	Span	Rise (or D	ia.)	Type	Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN			1800		MP	70		125X26	2.8	ROUND		
2	MAIN			1800		MP	70		125X26	2.8	ROUND		
Special Feature	-			1000		IVII	170		123/20	2.0	INCOIND		
Special Feature		ment											
Opcolar i catar	03 001111	TIOTIC											
					Uti	lities (L	ocated at)						
Utility Attachme	ents												
Telephone	Along	East r/w.					Gas						
Power							Municipal						
Others							Problem (Y/N)	No					
Remarks													
				Арр	oroac	h Road	d / Embankmer	nt					
				1	ast	l							
Horizontal Alignment					.ası	Now	Explanation o	f Condi					
	Vertical Alignment				5 5	Now 6		f Condi	tion contal curve to	South. On a ris	ing grade.		
	ent							f Condi		South. On a ris	ing grade.		
			24.800		5	6		f Condi		South. On a ris	ing grade.		
Vertical Alignm			24.800		5	6	Culvert in belly	f Condi		South. On a ris	ing grade.		
Vertical Alignm	h (m)		24.800		5 8	6 8	Culvert in belly	f Condi		South. On a ris	ing grade.		
Vertical Alignm Roadway Widt Embankment	h (m) _:1)	1.2)			5 8	6 8	Culvert in belly	f Condi		South. On a ris	ing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_	h (m) _:1) over(m) :	1.2)			5 8	6 8	Culvert in belly	f Condi		South. On a ris	ing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope ((Height of Co	h (m) _:1) over(m) :	,	6.0 No		5 8	6 8	Culvert in belly	f Condi		South. On a ris	ing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope ((Height of Co	h (m) _:1) over(m) :	,	6.0 No		5 8 4	6 6	Culvert in belly 2 @ 12.4.	f Condi		South. On a ris	sing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope ((Height of Co Guardrail (Y/N) Approach Roa	h (m) _:1) over(m) :) ad / Eml	,	6.0 No	ing	5 8 4	6 8 6 Upstre	Culvert in belly 2 @ 12.4.	f Condi	contal curve to	South. On a ris	ing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N) Approach Roa Culvert Comp	h (m) _:1) over(m) :) ad / Eml	oankmen	6.0 No t General Rat	ing	5 8 4	6 6	Culvert in belly 2 @ 12.4.	f Condi	contal curve to	South. On a ris	ing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N) Approach Roa Culvert Comp (Pipe # : 1, Sp	h (m) _:1) over(m) :) ad / Eml	oankmen	6.0 No t General Rat	ing	5 8 4 5	6 8 6 Upstre	Culvert in belly 2 @ 12.4. am End Explanation of	f Condi	contal curve to	South. On a ris	sing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_:1) over(m) : ad / Eml onent oan Type	oankmen e: Primar	6.0 No t General Rat y Span)	ing	5 8 4	6 8 6 Upstre	Culvert in belly 2 @ 12.4.	f Condi	contal curve to	South. On a ris	sing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N) Approach Roa Culvert Comp (Pipe # : 1, Sp Direction	_:1) over(m) : ad / Eml onent oan Type	oankmen e: Primar	6.0 No t General Rat y Span)	ing	5 8 4 5	6 8 6 Upstre	Culvert in belly 2 @ 12.4. am End Explanation of	f Condi	contal curve to	South. On a ris	sing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N) Approach Roa Culvert Comp (Pipe # : 1, Sp Direction End Treatment Others, None)	_:1) over(m) : ad / Eml onent oan Type	oankmen e: Primar	6.0 No t General Rat y Span)	ing	5 8 4 5 .ast	6 8 6 Upstre	Culvert in belly 2 @ 12.4. am End Explanation of	f Condi	contal curve to	South. On a ris	sing grade.		
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N) Approach Roa Culvert Comp (Pipe # : 1, Sp Direction End Treatment Others, None) Headwall	_:1) over(m) : ad / Eml onent oan Type	oankmen e: Primar	6.0 No t General Rat y Span)	ing	5 8 4 5 .ast	6 8 6 Upstre Now	Culvert in belly 2 @ 12.4. am End Explanation of	f Condi	contal curve to	South. On a ris	sing grade.		

78129 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		Х	Х	
Bevel End		N	6	Ice 500mm from crown
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		4	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		4	4	Loss of material between pipes.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	n):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	15-Nov-2011			600mm silt in barrel
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag	4			(4.4%. 19/Aug/2006)
Sidewall		N	7	
Measured Span (mm)	1850			CL
Measured At Ring No.				
Deflection (mm)	50			
Percent Deflection	3			
Floor		N	N	
Bulge (mm)	0			600mm silt
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	25			
Longitudinal Seams		Х	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)				
Coating		N	6	Superficial corrosion - along water line.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm	n):	, Rise (mm): 1800, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy	Fish Passage Adequacy		6	
Baffle		N	N	(4 row at D/S end, information from plan. 2000/11/28)
(Type: WEIR)				Buried by gravel deposit.
Waterway Adequacy		4	4	
Icing (Y/N)	Yes			Baffles silted over.
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction	I	E		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape :)		1		
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1		
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				am End
Culvert Component	_	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	1		
Direction	I	W		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

78129 -1 Bridge Culvert

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		4	4	Scant rocks U/S.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	Loss of fill in-between pipes .
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dae Cu	ilvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (ı		, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	15-Nov-2011			
Special Features				
Special Feature				
(Type:)				1
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)			<u>'</u>	
Measured At Ring No.				
Sag (mm)				(2.7%. 19/Aug/2006)
Percent Sag	3			
Sidewall		N	7	
Measured Span (mm)	1830		<u> </u>	
Measured At Ring No.				CL
Deflection (mm)	30			
Percent Deflection	2			
Floor	_	N	N	600mm silt/ice in barrel
Bulge (mm)	0			- Cooming Shallon
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	40			1
Longitudinal Seams		Х	X	
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)				
Coating		N	6	Superficial corrosion - at water line.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

78129 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 1800, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		N	N	Buried by gravel deposit.
(Type : WEIR)				
Waterway Adequacy		4	4	
Icing (Y/N)	Yes			(Large drift blocking U/S, West opening - photo. 19/Aug/2006)
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		N	7	
		D	ownst	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Snan)	Last	11011	Explanation of condition
Direction	ary opani	Е		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL	<u></u>		Nottri pipe.
Headwall		Х	Х	
2				
Collar		Х	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		Structu		re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		Luot	11011	Explanation of condition
Alignment		6	6	Curves North D/S .
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :				
Channel General Rating		6	6	

		Ma	intenence December	ndationo					
Inchester Decemmendations	Year		intenance Recomme	Department Com	am anta		Torget Veer	Est. Cost	Cot 4
Inspector Recommendations	Year	Inspector Comments		Department Con	iments		Target Year	ESt. Cost	Cat #
SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP									_
REMOVE DRIFT ACCUMULATION									+
INSTALL CONCRETE/STEEL LINING	`								+
INSTALL CONCRETE/STEEL LINING	J								+
INSTALL CONCRETE COLLAR/CUT	OFF								+
REPAIR SEAMS	011								+
OTHER ACTION									+
OTHER ACTION									
OTHER ACTION									+
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 55.6/7	7.8 Sufficiency F	Rating (Last/Now)	51.1/61.4	Est. Repl. Yr	2052	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Wade Nannin	ga	Previou	s Assistant's Name					
Next Inspection Date	15-Aug-2013		Previou	ious Inspection Date 08-Mar-2010					
Inspection Cycle (Default) (months)	21				-				
Comment									