78995 -1 Bridge Culvert

Bridge Culvert Inspection														
Bridge File Number 78995 -1 Bridge Culvert					Form Type			CUL1						
Year Built 1981						Lot No.		2						
Bridge or Town Name FT MCMURRAY					Inspector Name			Wade Nanninga						
Located Over CONN CREEK, 8.11.38, WATER			RCRS-ST		Inspec	tor Class		BR CLS B						
Located On 63:11 R1 15.722;63:11 L1 15.767			67		Assista	ant Name								
Water Body Cl./Year						Assista	Assistant Class							
Navigabil. Cl./Year						Inspec	tion Date		09-Mar-2010					
Legal Land Location NW SEC 29 TWP 89 RGE 9 W4N				₽M		Data E	ntry By	Theresa Lacusta						
Longitude, Lati	tude	-111:24	:16, 56:44:56				Data Entry Date 29-Mar-2010							
-			Fransportation (AIT)				Reviewer Name			Arnold Assenheimer				
Contract Main. Area CMA07								Review Date 29-Mar-2010						
Clear Roadway	//Skew	25 / 10	deg. (RHF)				Dept. I	Dept. Reviewer Name Brent Herrick						
AADT/Year		32,860	/ 2008 (A)				Dept. Review Date			31-Mar-2010				
Road Classifica	ation	RFD-41	2.4-120				Follow	-Up By						
Detour Length	(km)	1												
Bridge Culver	t Inform	ation												
Number of Culv	verts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	IN 3800 4190				SPE	81.7			152X51	3.0	ELLIPSE		
Special Feature	es													
Special Feature	es Comn	nent												
Litility Attachma	onto				Ut	ilities (L	_ocated	at)						
Utility Attachme							Gas							
							Municipal							
Power						m (Y/N)								
Others Remarks					T TODIC	III (171 4)								
Remarks				Δ	nnroad	ch Road	d / Emb	ankment						
				^	Last	Now		nation of		tion				
Horizontal Aligi	nment				6	6		BF tag installed @ top of West end.						
Vertical Alignment		7	7				th directions.							
3														
Roadway Widtl	h (m)		25.000											
Embankment					7	7								
Sideslope (_:1)		3.0											
(Height of Co	ver (m) :	: 3.2)												
Guardrail (Y/N))		Yes											
Approach Roa	ad / Emb	pankmei	nt General Rat	ina	6	6								
				J										
							am End							
Culvert Component			Last	Now	Explar	nation of	Condi	tion						
Direction		W												
End Treatment (Concrete, Steel, Others, None)														
Headwall		Х	X											
Collar			4	5	Minor crack SW collar.									
Wingwalls (Shape:)			X	X										

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				eam End
Cutoff Well		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed BELOW				Approx.
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 450)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
				lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		an (mm	i): 3800	
Barrel Last Accessible Date	09-Mar-2010			1/2 full with ice-lower sidewall/floor.
				Not visible.
Special Features				
Special Feature				-
(Type:)				
Special Feature				
(Type:)				
Roof	T	N	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	150			Estimated.
Percent Sag				
Sidewall	I	N	N	(4 cracked rings in North side @ 7 o'clock longitudinal seam.
Measured Span (mm)	4025			- 1777 (dg/2000)
Measured At Ring No.	12			
Deflection (mm)	225			
Percent Deflection	6		1	
Floor		N	N	(Rock covered floor throughout. 17/Aug/2006)
Bulge (mm)				-
Measured At Ring No.	Yes			-
Abrasion (Y/N)	162	- N.I.		Missing helt at DC/D7 phate
Circumferential Seams	0	N	4	Missing bolt at R6/R7-photo.
Separation (mm)	0	N.I.	N.I	(Pings 9 44 @ 7 clology North side 47/Aug/2000) Providens to 1
Longitudinal Seams Total No. of Cracked Rings	4	N	N	(Rings 8-11 @ 7 o'clock, North side. 17/Aug/2006) Previously rated "2".
Total No. of Cracked Rings Total No. of Rings with Two	0			40mm steel remaining in R10 - photo. 50mm steel remaining in R11
Cracked Seams Min. Remaining Steel	40			- photo. 17/Aug/2006)
Between Cracks (mm)	10			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	5	Superficial rust visible at water line.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

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Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 3800	, Rise (mm): 4190, Type: SPE)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy			5	Barrel 1/3 rise full of ice.					
Baffle		N	N						
(Type:)									
Waterway Adequacy		4	5	(Rock & gravel washed into and settled on barrel floor approx 0.3 -					
Icing (Y/N)	Yes			0.4 thick. 17/Aug/2006)2					
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		2	2	General rating carried over from 17/Aug/2006.					
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		Е							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	X						
(Shape :)									
Cutoff Wall		Х	X						
Bevel End		N	6	North side pushed in, 200mm probably during construction. Ice					
Heaving (mm)	0			about 1300mm from crown.					
Invert Above/Below Stream Bed	BELOW			Below ice level.					
Above/Below (mm)	300								
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size (mm) : 450)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	6	6						
		S	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
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								

Structure Usage								
		Last	Now	Explanation of Condition				
(Fish Compensation Measure 1 : NONE)								
(Fish Compensation Measure 2 : NONE)								
Channel General Rating		7	7					

		Mainten	ance Recommenda	ations					
Inspector Recommendations	Year	Inspector Comments	ande Recommend	Department Comr	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							gerren		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	ì								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION	2011	Strut rings 8 - 11.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 22.2/22	.2 Sufficiency Rating (%)	g (Last/Now) 2	8.4/38.4	Est. Repl. Yr	2012	Maint. Re	qd. (Y/N)	Yes
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	Jacob Oresile		Previous A	ssistant's Name					
Next Inspection Date	09-Dec-2011		Previous II	nspection Date	30-Apr-2008				
Inspection Cycle (Default) (months)	21								
Comment									