Bridge Culvert Inspection														
Bridge File Num	ber	82140	-1 Bridge Culve	rt			Form 1	уре		CUL1				
Bridge File Number 82140 -1 Bridge Culvert Year Built 1999 Bridge or Town Name WARNER Located Over TRIBUTARY TO VERDIGRIS COULE 1.12.2, WATERCRS-ST Located On 4:02 R1 31.653;4:02 L1 31.792 Water Body CI./Year Navigabil. CI./Year Legal Land Location SW SEC 30 TWP 3 RGE 16 W4M Longitude, Latitude -112:09:26, 49:14:07 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA24 Clear Roadway/Skew 24.8 / 5 deg. (RHF) AADT/Year 2,840 / 2012 (A) Road Classification RFD-412.4-130 Detour Length (km) 1  Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or Dia.)  1 MAIN 4238 2800 Special Features							Lot No	•		4				
Bridge File Number 1999 Bridge or Town Name WARNER Located Over TRIBUTARY TO VERDIGRIS COULE 1.12.2, WATERCRS-ST Located On 4:02 R1 31.653;4:02 L1 31.792 Water Body CI./Year Navigabil. CI./Year Legal Land Location SW SEC 30 TWP 3 RGE 16 W4M Longitude, Latitude -112:09:26, 49:14:07 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA24 Clear Roadway/Skew 24.8 / 5 deg. (RHF) AADT/Year 2,840 / 2012 (A) Road Classification RFD-412.4-130 Detour Length (km) 1  Bridge Culvert Information Number of Culverts 1							Inspec	tor Name		Jason Rusu				
Located Over		TRIBU	TARY TO VERI	DIGRIS C	OULE	E,		tor Class		BR CLS A				
Located On								int Name						
	Year							int Class		 				
								tion Date		23-Mar-2013				
		SW SE	C 30 TWP 3 R0	3F 16 W4	M		Data E			Lauren Korte				
				, , , , , ,				ntry Date		11-Apr-2013				
						Reviewer Name Review Date			Garry Roberts					
	Area		· · · · · · · · · · · · · · · · · · ·							07-Apr-2013				
								Tim Davies						
	<u> </u>				Dept. Review Date			22-Apr-2013						
	tion		. ,				Follow	-Uр Ву						
Detour Length (I	km)	1												
Number of Culve	erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 1	MAIN		4238	2800		RPE		75.6		152X51	3.0	ELLIPSE		
Special Features	 S			'				'			<u>'</u>			
Special Features														
Litility Attachmou	Utilities (Located at)													
Utility Attachments  Telephone West and East Row. Gas														
Power	vvest dilu Edst NUW.						Munici	201						
Others									No					
Others Problem (Y/N)   Remarks									INO					
Approach Road / Embankment														
	Last	Now		ation of		tion								
Horizontal Alignment					8	8	Located approx. 1km South of Twp. Road 34							
Vertical Alignment					8	8								
Roadway Width			24.800											
Embankment					8	8								
Sideslope (:	:1)		5.0											
(Height of Cov			-											
Guardrail (Y/N)			No											
Approach Road	d / Emb	oankme	ent General Rat	ing	8	8								
						Upstre	am End							
<b>Culvert Compo</b>	nent				Last	Now			Condi	tion				
			W	1	Explanation of Condition									
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall			8	8										
Collar			8	8										
Wingwalls					Х	X								
(Shape: )														
Cutoff Wall				N	N	Buried								

82140 -1 Bridge Culvert

Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		8	8								
Heaving (mm)	0										
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	600										
Scour Protection		8	8								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		8	8								
D ()(A))	 										
Beavers (Y/N)	No										
Upstream End General Rating		8	8								
Bridge Culvert Barrel											
Culvert Component Last Now Explanation of Condition  (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4238, Rise (mm): 2800, Type: RPE)											
	23-Mar-2013	<u> </u>	). 4230	, KISE (IIIII). 2000, Type. KFE)							
Barrel Last Accessible Date	23-Mar-2013										
Special Features											
Special Feature											
(Type:)											
Special Feature											
(Type:)											
Roof			8	(From past inspection) 17-Oct-2007							
Measured Rise (mm)	2730			Too much silt to get measurement.							
Measured At Ring No. 10											
Sag (mm) 70				Estimate.							
Percent Sag 2											
Sidewall		8	8	Inward.							
Measured Span (mm)	4220										
Measured At Ring No.	10										
Deflection (mm)	18										
Percent Deflection	0										
Floor			N	Average 600mm deep silt on floor.							
Bulge (mm)											
Measured At Ring No.											
Abrasion (Y/N)											
Circumferential Seams		8	8								
Separation (mm)	0										
Longitudinal Seams		8	8								
Total No. of Cracked Rings	0										
Total No. of Rings with Two Cracked Seams	Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)				_ 4N stagger.							
Proper Lap (Y/N) Yes											
Longitudinal Stagger (Y/N) No											
Coating			5	Our official comparing @ 11/01							
Corrosion By Soil (Y/N)	No			Superficial corrosion @ U/S haunches.							
Corrosion By Water (Y/N) Yes											
Camber POS/ZERO/NEG	ZERO										
Ponding (Y/N)	No										

82140 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	, Rise (mm): 2800, Type: RPE)								
Fish Passage Adequacy			7						
Baffle			Х						
(Type : )									
Waterway Adequacy			7	600mm silt.					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating			8						
Downstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction	T	E							
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		8	8						
Collar			X						
Wingwalls			X						
(Shape: )		Х							
Cutoff Wall			Х						
Bevel End			8						
Heaving (mm) 0									
Invert Above/Below Stream Bed BELOW									
Above/Below (mm) 600									
Scour Protection		8	8						
(Type : RIP RAP)									
(Avg. Rock Size(mm): 300)									
Scour/Erosion			8						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	8	8						
		S	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			7	Triple CSP below railway 15m U/S.					
Bank Stability			8						
HWM (m below Top of Culvert)				None 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						

			Maintena	ance Recommen	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS					·					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 88.9/	88.9	Sufficiency Rating (%)	g (Last/Now)	84.1/84.0	Est. Repl. Yr	2053	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Rober	ts		Previous	s Assistant's Name					
Next Inspection Date	23-Dec-2014	1		Previous	Inspection Date	17-Jun-2011				
Inspection Cycle (Default) (months)	21									
Comment										