Bridge Culvert Inspection														
Bridge File Number 70747 -		j				Form Type			CUL1					
Year Built		1981					Lot No.			3				
Bridge or Town	Name	DRUMI	HELLER				Inspec	tor Name		Owen Salava				
Located Over		TRIBU' WATER	TARY TO RED	DEER RI	VER, 3	3.34,	Inspector Class			BR CLS A				
Located On		10:08 C	1 3.981				Assistant Name							
Water Body CI./			0.001				Assistant Class							
Navigabil. Cl./Ye							Inspection Date		01-Nov-2011					
Legal Land Loca		SE SE	C 31 TWP 28 R	GF 19 W	4M			ntry By		Marcia Chave	Z			
Longitude, Latitu			9:34, 51:25:59					Data Entry Date 28-Nov-2011						
Road Authority			Transportation	(AIT)				ver Name		John O'Brien				
Contract Main.		CMA21	•	()			Reviev			13-Nov-2011				
Clear Roadway/			26 deg. (RHF)							Andrew Smikle	es			
AADT/Year			2010 (A)					Review Da	ate	28-Nov-2011				
Road Classificat			11.8-110				Follow	-Up By						
Detour Length (-	16												
Bridge Culvert Information														
Number of Culve			1											
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		2019	2226		SPE		38.4		152X51	3.0	ELLIPSE		
Special Feature							оо. ч							
Special Feature		nent												
Utility Attachme	Utilities (Located at)													
Telephone North ditch.							Gas East and also South of bridge.							
Power 3 wires North of railway.						Municipal East and also count of shage.								
Others	O WII CO	3 1401111	or ranway.						No					
Remarks							1 10010	iii (171 4)	110					
Approach Road / Embankment														
	Last	Now	Explanation of Condition											
Horizontal Alignment					7	7	Curve	Curve to East.						
Vertical Alignment					9	9								
Roadway Width	(m)		11.100											
Embankment				8	8 8									
Sideslope (:1)		3.0											
(Height of Cover(m) : 2.5)														
Guardrail (Y/N)		No												
Approach Road	d / Emb	ankme	ent General Rat	ing	7	7								
						Upstre	om Enc							
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
Direction					S		LAPIGI	iation or	Oonai	LIOII				
End Treatment (Concrete, Steel, Others, None)														
Headwall			Х	Х										
Collar					Х	Х								
Wingwalls					Х	X								
(Shape:)														
Cutoff Wall				X	X									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Floor superficial corrosion.
Heaving (mm)	0			- ·
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection	, , , , ,	4	4	Minor erosion starting at sides of bevel.
(Type : CONCRETE)				
(Avg. Rock Size(mm):)				-
Scour/Erosion		4	4	
		· ·		
Beavers (Y/N)	No			
			Ι.	
Upstream End General Rating		4	4	
		Brid	dae Cu	Ilvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN.			-
Barrel Last Accessible Date	01-Nov-2011	. (
	011107 2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Estimated 4.5% sag.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			-
Percent Sag	1.00			-
Sidewall		8	8	
Measured Span (mm)	2000		0	
Measured At Ring No.	4			_
Deflection (mm)	19			_
Percent Deflection	1			_
	I			Cit
Floor		N	N	Silt.
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)				
Longitudinal Seams		N	6	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Superficial @ top of roof @ U/S. Alkali corrosion at barrel ends top
Corrosion By Soil (Y/N)	Yes			seams.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

70747 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SPE)					
Fish Passage Adequacy		5	5						
Baffle			Х						
(Type:)									
Waterway Adequacy		7	6						
Icing (Y/N)	No								
Silting (Y/N)	Yes			Silt 1m deep at outlet.					
Drift (Y/N)	No								
Barrel General Rating			6						
Downstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		X	X						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		Х	X						
Bevel End		5	5	Minor dent in West side.					
Heaving (mm)	0								
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm)	500								
Scour Protection		4	4	Bank has sluffed at west side.					
(Type : NONE)									
(Avg. Rock Size(mm):)									
Scour/Erosion		4	4						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	4	4						
		s	tructur	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment			5	Flows into railway culvert 6m D/S. U/S not good alignment for entry into pipe.					
Bank Stability			4	Bank has sluffed at West side.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

		Maintena	nce Recommen	dations					
Inspector Recommendations	Year	Inspector Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2012	Approx 15m3 D/S, 5m3 U/S	Class 1.						
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	6								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/66	Sufficiency Rating (%)	ufficiency Rating (Last/Now) 6)		Est. Repl. Yr	2023 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previous	s Assistant's Name					
Next Inspection Date	01-Aug-2013 Previo			us Inspection Date 09-Mar-2010					
Inspection Cycle (Default) (months)	21		'	· .	1				
Comment									