					Dui de	o Culve	out Inches	lan						
Deidera Fila Nov		04.070	4 Dridge Culve		3riag	e Cuive	ert Inspect			CLILM				
Bridge File Nur	mber	01879 -1 Bridge Culvert					Form Type			CULM				
Year Built		1957					Lot No.			3				
Bridge or Town	n Name		A DV TO TAIL	ODEEK O	2.05.4		Inspector Name		Jason Saly					
Located Over TRIBUTARY TO TAIL CREEK, WATERCRS-ST				CREEK, 3	3.03.1,		Inspector Class Assistant Name		BR CLS A					
Located On		11:16 C	1 37.510											
Water Body Cl./Year							Assistant Class Inspection Date		13-Feb-2012					
Navigabil. Cl./Year							Data Entry By			Marcia Chavez				
Legal Land Location SE SEC 6 TWP 39 RGE 21 W4N				l		Data Entry Date			08-Mar-2012					
Longitude, Latitude -113:00:50, 52:19:03							Reviewer Name			John O'Brien				
Road Authority	/	Alberta	Transportation	(AIT)			Review Date			29-Feb-2012				
Contract Main.	Area	CMA20							Name	Andrew Smikl	es			
Clear Roadway	y/Skew	11.3 / 0	deg.				Dept. Rev			09-Mar-2012				
AADT/Year		2,280 / 2	2010 (A)				Follow-Up			00 11101 2012				
Road Classifica	ation	RAU-21	1.8-110					,						
Detour Length	(km)	6												
Bridge Culver														
Number of Cul	verts		2	T		1				I				
Pipe #	Barrel		Span	Rise (or D	ia.)	Type	L	Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1429	1575		SPE	4:	2.7		152X51	2.8	ELLIPSE		
2	MAIN		1429	1575		SPE		9.6		152X51	2.8	ELLIPSE		
Special Feature				11010						, , , , , , , , , , , , , , , , , , , ,	1=14	,		
Special Feature		ment												
•														
					Uti	ilities (L	Located at)						
Utility Attachme	ents						Gas							
Telephone														
Power	6 wire	es 25m South of c/l.					Municipal							
Others						Problem	(Y/N)	No						
Remarks				Δ		h Daa	d / Emban	**** ******						
				T	<u>oroac</u> Last	Now	Explanat		Condi	tion				
Horizontal Alig	nment				6	6				g & intersection	to Fast Hill to	the West		
Vertical Alignm					6	6	limited sig	ght dista	ance.	No passing WE	B.	7 11.0 11001,		
Roadway Widt			11.300											
	()		111000											
Embankment					6	6	Some minor erosion near top of culverts South slope.					∍.		
Sideslope (_			3.0											
(Height of Co		4.1)	1											
Guardrail (Y/N))		No											
Approach Roa	ad / Eml	bankmer	nt General Ra	ting	6	6								
						Unetre	am End							
Culvert Comp	onent					Now		ion of (Condi	tion				
(Pipe # : 1, Sp		e: Prima	rv Span)	1.		1								
Direction	- 7 7		, -1 /		s		East pipe							
End Treatment Others, None)	t (Concre	ete, Stee	I, STEEL		<u> </u>									
Headwall					Х	Х								
Collar						1								
Collar					Χ	X								
Collar					X	X								

01879 -1 Bridge Culvert

			Linetro	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	(Snan)	Lasi	INOW	Explanation of Condition
Cutoff Wall	у Эрап)	Х	X	
Cuton wan		^		
Bevel End		7	7	Beaver protection on inlet.
Heaving (mm) 50				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0		_	
Scour Protection		6	6	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	Yes			
Upstream End General Rating		6	6	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			
Barrel Last Accessible Date	13-Feb-2012			
Special Features			1	
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof	4.400	5	5	Could not measure rise due to ice.
Measured Rise (mm)	1490			
Measured At Ring No.				
Sag (mm)	85			
Percent Sag	6			
Sidewall 4505		6	5	Minor perforation W sidewall at R9. Span at R7=1505=76mm=4.8%.
Measured Span (mm)	1505			Span at R12=1470=41mm.
Measured At Ring No.	7			
Deflection (mm) Percent Deflection	76			4.8%
	5			
Floor		5	N	Ice
Bulge (mm)	0			
Measured At Ring No.	No			
Abrasion (Y/N)	INO			Construction D/O and have desired by Minerican halfs
Circumferential Seams	40	5	5	Seam near D/S end has damage. Missing bolt.
Separation (mm)	10			
Longitudinal Seams		6	6	
Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
				Long stagger for S half of pipe; no stagger in N half.

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1429	, Rise (mm): 1575, Type: SPE)
Coating		4	4	Rust stains through lower seams.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N) Yes				
Fish Passage Adequacy		5	4	Beaver protection at S end of pipe does not allow for fish passage.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			(Minor silt/rocks washed into barrel floor. 29Mar2010).
Barrel General Rating		5	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			, <u>F</u>
Direction		N		East barrel.
End Treatment (Concrete, Steel, Others, None)				
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	6	
Heaving (mm)	25			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
			Unetro	am End
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	larv Span)		11011	
Direction		S		West barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL	5		Troot Ballol.
Headwall		Х	Х	
Collar		X	X	

			Linotro	om End
Culvert Component				Explanation of Condition
	lami Chan)	Last	INOW	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape:)			1	
Cutoff Wall		X	X	
Bevel End		3	3	Bevel projecting 0.6m from fill. Seam @ bevel is torn.
Heaving (mm)	0	J J	<u> </u>	Bever projecting otom nom mil. Seam & bever is tom.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection	100	4	4	Scour @ bevel sides.
		4	4	Scoul & bever sides.
(Type: NATURAL)				
(Avg. Rock Size(mm) :)			T 4	
Scour/Erosion		4	4	
Beavers (Y/N)	Yes			Beaver protection on inlet. Some blockage.
Upstream End General Rating		3	3	
3				
				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı	mm): 1	429, Rise (mm): 1575, Type: SPE)
Barrel Last Accessible Date	29-Mar-2010			Unable to access; water running btwn ice layers, shape appears adequate.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	5	0.4m ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				Estimate.
Percent Sag 5				-
Sidewall	J	5	5	
	1200	3	່ວ	
Measured Span (mm)	1380			
Measured At Ring No. 7				
Deflection (mm)	49			(3.4%. 29Mar2010).
Percent Deflection	3			l
Floor	I.	N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	N	
Separation (mm)	0			
Longitudinal Seams		5	N	
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)	Yes			

		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm): 14	429, Rise (mm): 1575, Type: SPE)
Coating		5	5	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Beaver protection at S end does not allow fish passage.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		4	4	Inlet blocked by debris.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		5	N	GR was 5 from 29Mar2010.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		West barrel.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		3	4	Left bevel damaged, constricts flow - no action required.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	400			
Scour Protection		4	4	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	4	Minor scour West bevel.
Beavers (Y/N)	Yes			
Downstream End General Ratio	ng	3	4	
		\$	tr <u>uctu</u>	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)	1.5			(HWM 1.50m. 02/04/22) HWM not visible.
Drift (Y/N)	Yes			<u>,</u>

Structure Usage									
	Last	Now	Explanation of Condition						
Channel Bottom AGGRADING Degrading/Aggrading									
Yes			Beaver dam 15m D/S & 8m U/S at pond. Beaver house 50m from U/S end.						
NONE)									
NONE)									
Channel General Rating									
		AGGRADING Yes NONE)	AGGRADING Yes NONE) NONE)						

		Maintenance I	Recommendations					
Inspector Recommendations	Year	Department Com	ments	Tar	get Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2012	20m3, Class 1 both ends West pip	e scour.					
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	3							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION	2012	Remove beaver dam and debris @	Devel ends.					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N(%)	low) 55.6/5	Sufficiency Rating (Las (%)	st/Now) 40.0/41.0	Est. Repl. Yr 20)17	Maint. Red	qd. (Y/N)	Yes
Special No action required Comments for Next Inspection	for torn seam a	t W pipe, S bevel.	Department Comments					
Maintenance Reviewed By			Date		Estim	ated Total	0	
Proposed Long-Term Strategy							_	
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Owen Salava		Previous Assistant's Name					
Next Inspection Date	13-Nov-2013		Previous Inspection Date	Previous Inspection Date 29-Mar-2010				
Inspection Cycle (Default) (months)	21							
Comment								