					Bridg	e Culve	ert Insp	ection						
Bridge File Nun	nber	79136	-1 Bridge Culve	rt			Form 7	Гуре		CUL1				
Year Built 1985							Lot No.			2				
Bridge or Town Name DARWELL							Inspec	tor Name		Kris Bosters				
Located Over			DER TRIBUTARY TO STURGEON 6.65.23.2, WATERCRS-ST			Inspector Class			BR CLS A					
				TERCRS	-81		Assista	ant Name						
	D. (633:02	C1 32.954				Assista	ant Class						
							Inspection Date			20-Jul-2012				
							Data E	ntry By		Theresa Lacusta				
			C 20 TWP 54 F	RGE 3 W5	5M		Data E	intry Date		13-Aug-2012				
	ude		5:06, 53:40:22				Review	ver Name		Eric Carcoux				
			Transportation	(AII)			Reviev	v Date		31-Jul-2012				
							Dept. I	Reviewer	Name	Brent Herrick				
	/Skew		15 deg. (RHF)				Dept. I	Review Da	ate	16-Aug-2012				
RIVER, 6 Located On 633:02 C Water Body CI./Year Navigabil. CI./Year Legal Land Location SW SEC Longitude, Latitude -114:25:0 Road Authority Alberta T Contract Main. Area CMA12 Clear Roadway/Skew 10.4 / 15 AADT/Year 870 / 201 Road Classification RCU-209 Detour Length (km) 3 Bridge Culvert Information Number of Culverts 1		. ,		Follow-Up By										
Navigabil. Cl./Year Legal Land Location SW SEC Longitude, Latitude -114:25: Road Authority Alberta Contract Main. Area CMA12 Clear Roadway/Skew 10.4 / 18 AADT/Year 870 / 20 Road Classification RCU-20 Detour Length (km) 3 Bridge Culvert Information Number of Culverts Pipe # Barrel 1 MAIN Special Features Special Features Comment Utility Attachments Telephone Power Others Remarks File tag U/S. Horizontal Alignment Vertical Alignment Roadway Width (m)		09-110	09-110											
		ation												
				I ,				1						
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	2400		SP		32.8		152X51	3.5	ROUND		
Special Feature	es			1				1		1				
		ment												
Littlita Attacka					Uti	ilities (L	_ocated	at)						
	ins						Gas							
							Munici		No					
	File to	na 11/9					Proble	m (Y/N)	INO					
Remarks	Tile ta	ıy 0/3.		Δ	nnroad	ch Road	l / Emb	ankment						
				^	Last	Now	T .	nation of		tion				
Horizontal Align	ment				7	7				100 m to west.	Field access 1	00m Fast.		
					9	9				n east, good sig				
			10.200											
						1								
	4.				N 7		-							
• ` `		>	3.0				-							
_ ` <u> </u>		1.8)												
Guardrail (Y/N)			No											
Approach Roa	d / Emb	bankme	ent General Rat	ting	7	7								
						Upstre	am End							
Culvert Compo	onent				Last	Now	T .	nation of	Condi	tion				
Direction						111011	S							
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL				-							
Headwall					Х	Х								
Collar			Х	Х										
Wingwalls	Wingwalls			X	X									
(Shape:)														
Cutoff Wall			X	X										

			Unetro	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		N	7	Snow covered.				
Heaving (mm)	0	- ''		- Onew services.				
Invert Above/Below Stream Bed BELOW								
Above/Below (mm)	400			-				
Scour Protection	1400	N	7					
(Type : RIP RAP)		114						
(Avg. Rock Size(mm) : 300)				_				
Scour/Erosion		N	7					
SCOUI/ETOSIOTI		IN	′					
Beavers (Y/N)	Yes							
			_					
Upstream End General Rating		7	7					
		Brid	dae Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 2400, Type: SP)				
Barrel Last Accessible Date	30-Jan-2009			Water too deep to access, viewed from ends.				
Darrot East / tooosolble Date	00 0011 2000			Trailor too doop to docood, viewed from orido.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		N	N	(Measured 2320 span near c/l design is 2314 x 2552. 02/10/02)				
Measured Rise (mm)				(Dirt on floor, could not measure30-Jan-2009) Roof appears to be in good condition.				
Measured At Ring No.								
Sag (mm)	6			_				
Percent Sag				-				
Sidewall		5	N	2248, D/S 226530-Jan-2009				
Measured Span (mm)	2223	3	11	Appears to be in good condition.				
Measured At Ring No.	4			_				
Deflection (mm)	177			_				
Percent Deflection	7			-				
Percent Deflection	<u> </u>							
Floor		N	N	Covered with silt30-Jan-2009				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		7	N					
Separation (mm)				1				
Longitudinal Seams		7	N					
Total No. of Cracked Rings	0			1				
Total No. of Rings with Two								
Cracked Seams								
Min. Remaining Steel								
Between Cracks (mm)	Na			-				
Proper Lap (Y/N)	No			-				
Longitudinal Stagger (Y/N)	No							
Coating		6	N	Roof & sidewall rated. Floor covered with silt30-Jan-2009				
Corrosion By Soil (Y/N)	No			_				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							

79136 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 2400, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		4	7						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	Yes								
Barrel General Rating			N	Last rated 5 in Jan 2009					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction				N					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar			Х						
Wingwalls			Х						
(Shape:)									
Cutoff Wall			X						
Bevel End		N	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	800								
Scour Protection		N	4	Settlement along bevel ~.25m x 1.5m x .3m deep. 10x20x1m deep scour pool d/s, bevel undermining as well ~0.5m					
(Type : RIP RAP)				photo					
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		N	4	Large scour pool and bevel undermining.					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	3	4						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		4	4	Outlet is directed towards bank and then takes 80 degree corner. D/S the channel meanders.					
Bank Stability			4	(Banks eroding @ U/S.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

		Maintenanc	e Recommen	dations					
Inspector Recommendations	Year	Inspector Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2012	20m3 class 1 at d/s end.							
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) 55.6/55	.6 Sufficiency Rating (L	ciency Rating (Last/Now)		Est. Repl. Yr	2032 Maint. Re		qd. (Y/N)	Yes
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	Jacob Oresile		Previous	Assistant's Name					
Next Inspection Date	20-Oct-2015		Previous	Inspection Date	30-Jan-2009				
Inspection Cycle (Default) (months)	39			,	,				
Comment									