Bridge Inspection & Maintenance System (Web 2005)

						are mop							
Bridge File Number 01884 -1		1 Bridge Culve			Form T	уре		CUL1					
Year Built 1971									1				
Bridge or Town Name BLACKFALDS						Inspec	tor Name		Owen Salava				
Located Over TRIBUTARY TO			Y TO RED DEER RIVER, 3.77,				Inspector Class BR CLS A						
5	07.02 (CRS-SI					Assistant Name						
/Vear	007.02 V	-					ant Class						
Navigabil. Cl./Year						Inspec	tion Date		12-Jul-2012				
Legal Land Location NW SEC 17 TWP 39 RGE				414		Data E	Data Entry By Marcia Chavez						
	112.12.	17 52.21.30		4111		Data E	ntry Date	•	01-Aug-2012				
Road Authority Alberta		Transportation (AIT)					ver Name	•	John O'Brien				
Contract Main. Area CMA19		ranoportation		Reviev	/ Date		SU-JUI-2012						
Clear Roadway/Skew 11.6 / 9		dea. (RHF)		Dept. F	Reviewer	Name							
AADT/Year 1.720 /		2011 (A)			Dept. Review Date			02-Aug-2012					
Road Classification		0-110			Follow-Up By								
(km) 1	6	<u> </u>			-								
t Informat	tion					1							
verts		1											
Barrel	:	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
MAIN		-	1829		SP		65.8		152X51	2.8	ROUND		
es										·			
Special Features Comment													
Litility Attachments					ilities (L	ocated	at)						
Telephone 20m South of centerline						0							
Power 3 wires 20m North of centerline					Gas	l							
Others					Drahla		Nia						
						Proble	m (Y/N)	INO					
			Δr	nroa	ch Road	l/Emb	ankment						
							ankinent						
Horizontal Alignment				Last	Now	Explar	ation of	Condit	ion				
nment				Last 6	Now 6	On bec	ation of ainnina of	Condit curve.	t ion 5100m from 2/	A East. Bottom	of gully.		
nment ent				6 6	Now 6 6	On beg	ation of ginning of	Condit curve,	t ion 5100m from 24	A East. Bottom	of gully.		
nment ent h (m)		9.800		6 6	Now 6 6	On beg	ation of	Condit curve,	i on 5100m from 2 <i>4</i>	A East. Bottom	of gully.		
nment ent h (m)		9.800		Last 6 6 7	Now 6 6 7	On beg	ation of	Condif curve,	: ion 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) _:1)		9.800		Last 6 6 7	Now 6 6 7	On beg	pation of	Condif curve,	i on 5100m from 2/	A East. Bottom	of gully.		
nment lent h (m) _:1) over(m) : 6	 ;)	9.800		6 6 7	Now 6 6 7	On beç	pation of	Condif curve,	: ion 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) _:1) vver(m) : 6	3)	9.800 2.0 No		6 6 7	Now 6 6 7	On beg	nation of	Condif	i on 5100m from 2 <i>4</i>	A East. Bottom	of gully.		
nment ent h (m) _:1) over(m) : 6	5) ankmer	9.800 2.0 No th General Rat	ting	<u>6</u>	Now 6 6 7 6 6 6	Cn beg	pation of	Condit curve,	i on 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) _:1) wer(m) : 6	3) Inkmer	9.800 2.0 No tt General Rat	iing	<u>6</u>	Now 6 6 7 6 Upstre	On beg	pation of	Condit curve,	ion 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) _:1) over(m) : 6 h d / Emba	s) ankmer	9.800 2.0 No ht General Rat	ing	6 Last	Now 6 6 7 6 9 6 9	am End	pation of	Condit	ion 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) _:1) vver(m) : 6 d / Emba	i) inkmer	9.800 2.0 No ht General Rat	ting	Last 6 7 6 Last N	Now 6 6 6 7 7 6 6 Upstre Now	am End	nation of	Condif	ion 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) _:1) wer(m) : 6 h ad / Emba	i) Inkmer e, Stee	9.800 2.0 No t General Rat	iing	6 Last 6 Last N	Now 6 6 7 4 6 Upstre Now	am End	ation of	Condif	ion 5100m from 2/	A East. Bottom	of gully.		
nment ient h (m) .:1) wer(m) : 6 over(m) : 6 onent (Concrete	s) ankmer e, Steel	9.800 2.0 No t General Rat	ting	Last 6 7 7 6 Last N	Now 6 6 6 7 7 6 0 Upstre Now X X	am End	nation of	Condit	ion 5100m from 2/	A East. Bottom	of gully.		
nment ent h (m) :1) over(m) : 6 onent (Concrete	s) ankmer e, Steel	9.800 2.0 No t General Rat	ting	Last 6 6 7 6 Last N X	Now 6 6 7 6 Vpstre Now X X	am End	nation of	Condif	ion 5100m from 2/	A East. Bottom	of gully.		
nment ient h (m) _:1) ver(m) : 6 ad / Emba onent (Concrete	s) ankmer e, Steel	9.800 2.0 No t General Rat	iing	Last 6 7 7 6 Last N X X X	Now 6 6 6 7 7 6 6 Upstre Now X X X X X X	am End Explar	nation of ginning of	Condif	ion 5100m from 2/	A East. Bottom	of gully.		
nment ient h (m) .:1) ver(m) : 6 onent (Concrete	s) ankmer e, Steel	9.800 2.0 No t General Rat	ing	Last 6 7 7 6 Last N X X	Now 6 7 7 6 0	am End Explar	nation of ginning of ginnig of ginning of ginning of ginning of ginning of ginning of gi	Condit	ion 5100m from 2/	A East. Bottom	of gully.		
	Name F Name F V V V V V V V V V V V V V	Name BLACKF TRIBUT TRIBUT 597:02 (597:02 (/Year 597:02 (/ear 597:02 (cation NW SE(tude -113:43: Area CMA19 //Skew 11.6 / 9 1,720 / 2 1,720 / 2 ation RCU-21 (km) 16 t Information P verts Barrel MAIN Bases es 20m South of (3 wires 20m N	Name BLACKFALDS TRIBUTARY TO RED VATERCRS-ST 597:02 C1 7.502 /Year 'ear cation NW SEC 17 TWP 39 F tude -113:43:17, 52:21:39 Alberta Transportation Area CMA19 //Skew 11.6 / 9 deg. (RHF) 1,720 / 2011 (A) ation RCU-210-110 (km) 16 t Information verts 1 Barrel Span MAIN - es - es Comment - 20m South of centerline. 3 wires 20m North of centerline.	Name BLACKFALDS TRIBUTARY TO RED DEER RIVWATERCRS-ST 597:02 C1 7.502 /Year 'ear cation NW SEC 17 TWP 39 RGE 26 W tude -113:43:17, 52:21:39 Alberta Transportation (AIT) Area CMA19 //Skew 11.6 / 9 deg. (RHF) 1,720 / 2011 (A) ation RCU-210-110 (km) 16 t Information verts 1 Barrel Span Rise (or I MAIN - es - est - 20m South of centerline. 3 wires 20m North of centerline. 3 wires 20m North of centerline. -	Name BLACKFALDS TRIBUTARY TO RED DEER RIVER, SWATERCRS-ST 597:02 C1 7.502 /Year 'ear cation NW SEC 17 TWP 39 RGE 26 W4M tude -113:43:17, 52:21:39 Alberta Transportation (AIT) Area CMA19 //Skew 11.6 / 9 deg. (RHF) 1,720 / 2011 (A) ation RCU-210-110 (km) 16 t Information verts 1 Barrel Span Rise (or Dia.) MAIN - es - 20m South of centerline. 3 wires 20m North of centerline. 3 wires 20m North of centerline.	Name BLACKFALDS TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST 597:02 C1 7.502 /Year 'ear cation NW SEC 17 TWP 39 RGE 26 W4M tude -113:43:17, 52:21:39 Alberta Transportation (AIT) Area CMA19 //Skew 1.6 / 9 deg. (RHF) 1,720 / 2011 (A) ation RCU-210-110 (km) 16 t Information verts 1 Barrel Span Rise (or Dia.) Type MAIN - es 1829 SP es es Utilities (Leents 20m South of centerline. 3 wires 20m North of centerline. 3 wires 20m North of centerline. Approach Road	Name BLACKFALDS Inspect TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspect 597:02 C1 7.502 Assista 597:02 C1 7.502 Assista fear Inspect cation NW SEC 17 TWP 39 RGE 26 W4M Data E tude -113:43:17, 52:21:39 Review Alberta Transportation (AIT) Review Area CMA19 Dept. F //Skew 11.6 / 9 deg. (RHF) Dept. F 1,720 / 2011 (A) Follow- ation RCU-210-110 Follow- (km) 16 1829 SP MAIN - 1829 SP es Span Rise (or Dia.) Type MAIN - 1829 SP es Span Rise (or Dia.) Type MAIN - 1829 SP es South of centerline. Gas 3 wires 20m North of centerline. Munici 3 wires 20m North of centerline. Munici Probleat	Name BLACKFALDS Inspector Name TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspector Class 597:02 C1 7.502 Assistant Name /Year Assistant Class /Year Inspector Date /Year Inspector Date /Year Assistant Class /Year Inspector Date /Year Assistant Class /Year Inspector Date /Year Assistant Class /Year Inspector Name /Year Assistant Class /Year Inspector Name /Year Assistant Class /Year Inspector Name /Year Alberta Transportation (AIT) Area CMA19 //Skew 11.6 / 9 deg. (RHF) 1,720 / 2011 (A) Follow-Up By follow-Up By Follow-Up By verts 1 Barrel Span NAIN - es - es - es - 20m South of centerline. Gas 3 wires 20m North o	Name BLACKFALDS Inspector Name TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspector Class 597:02 C1 7.502 Assistant Name /Year Inspection Date 'ear Inspection Date 'ear Inspection Date 'ear Inspection Date 'ation NW SEC 17 TWP 39 RGE 26 W4M Data Entry By Alberta Transportation (AIT) Reviewer Name Alberta Transportation (AIT) Review Date Area CMA19 Dept. Reviewer Name //Skew 11.6 / 9 deg. (RHF) Dept. Review Date 1,720 / 2011 (A) Follow-Up By Follow-Up By ation RCU-210-110 Follow-Up By (km) 16 Span Rise (or Dia.) Type Barrel Span Rise (or Dia.) Type Length MAIN - 1829 SP 65.8 es Utilities (Located at) Problem (Y/N) No 20m South of centerline. Gas Sa wires 20m North of centerline. Gas 3 wires 20m North of centerline. Municipal Problem (Y/N) <t< td=""><td>Name BLACKFALDS Inspector Name Owen Salava TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspector Class BR CLS A 597:02 C1 7.502 Assistant Name Assistant Class /Year Inspector Date 12-Jul-2012 Year Inspector Date 12-Jul-2012 Year Inspector Date 12-Jul-2012 Year Data Entry By Marcia Chavez Data Entry By Marcia Chavez Data Entry Date 01-Aug-2012 Year Alberta Transportation (AIT) Review Pate 30-Jul-2012 Area CMA19 Dept. Review Date 30-Jul-2012 Y/Skew 11.6 / 9 deg. (RHF) Dept. Review Date 02-Aug-2012 Yerts 1 Span Rise (or Dia.) Type Length Corr. Profile MAIN - 1829 SP 65.8 152X51 es Utilities (Located at) Span Span Span Span MAIN - 1829 SP 65.8 152X51 es Swires 20m North of centerline. Gas Sprolem (Y/N) <</td><td>Name BLACKFALDS Inspector Name Owen Salava TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspector Class BR CLS A 597:02 C1 7.502 Assistant Name Assistant Class Inspection Date 12-Jul-2012 Vear Inspection Date 12-Jul-2012 Data Entry By Marcia Chavez Data Entry Date 01-Aug-2012 vation NW SEC 17 TWP 39 RGE 26 W4M Data Entry Date 01-Aug-2012 Data Entry Date 01-Aug-2012 Alberta Transportation (AIT) Reviewer Name John O'Brien Ackerware Andrew Smikles //Skew 11.6 / 9 deg. (RHF) Dept. Reviewer Name Oadrew Smikles Dept. Review Date 02-Aug-2012 /Kkw 11.6 / 9 deg. (RHF) Dept. Review Date 02-Aug-2012 Entrow Smikles Information RCU-210-110 Foilow-Up By Entrow Smikles Dept. Review Date 02-Aug-2012 Barrel Span Rise (or Dia.) Type Length Corr. Profile PI//Slab Thickness MAIN - 1829 SP 65.8 152X51 2.8 es Som South of centerline. Municipal P</td></t<>	Name BLACKFALDS Inspector Name Owen Salava TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspector Class BR CLS A 597:02 C1 7.502 Assistant Name Assistant Class /Year Inspector Date 12-Jul-2012 Year Inspector Date 12-Jul-2012 Year Inspector Date 12-Jul-2012 Year Data Entry By Marcia Chavez Data Entry By Marcia Chavez Data Entry Date 01-Aug-2012 Year Alberta Transportation (AIT) Review Pate 30-Jul-2012 Area CMA19 Dept. Review Date 30-Jul-2012 Y/Skew 11.6 / 9 deg. (RHF) Dept. Review Date 02-Aug-2012 Yerts 1 Span Rise (or Dia.) Type Length Corr. Profile MAIN - 1829 SP 65.8 152X51 es Utilities (Located at) Span Span Span Span MAIN - 1829 SP 65.8 152X51 es Swires 20m North of centerline. Gas Sprolem (Y/N) <	Name BLACKFALDS Inspector Name Owen Salava TRIBUTARY TO RED DEER RIVER, 3.77, WATERCRS-ST Inspector Class BR CLS A 597:02 C1 7.502 Assistant Name Assistant Class Inspection Date 12-Jul-2012 Vear Inspection Date 12-Jul-2012 Data Entry By Marcia Chavez Data Entry Date 01-Aug-2012 vation NW SEC 17 TWP 39 RGE 26 W4M Data Entry Date 01-Aug-2012 Data Entry Date 01-Aug-2012 Alberta Transportation (AIT) Reviewer Name John O'Brien Ackerware Andrew Smikles //Skew 11.6 / 9 deg. (RHF) Dept. Reviewer Name Oadrew Smikles Dept. Review Date 02-Aug-2012 /Kkw 11.6 / 9 deg. (RHF) Dept. Review Date 02-Aug-2012 Entrow Smikles Information RCU-210-110 Foilow-Up By Entrow Smikles Dept. Review Date 02-Aug-2012 Barrel Span Rise (or Dia.) Type Length Corr. Profile PI//Slab Thickness MAIN - 1829 SP 65.8 152X51 2.8 es Som South of centerline. Municipal P		

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	40			
Invert Above/Below Stream Bed				At streambed.
Above/Below (mm)	0			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)			-	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1829, Type: SP)
Barrel Last Accessible Date	21-Mar-2006			1.2m water at centre, viewed from ends; no failure seen, shape distorted.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		N	N	(Ring 7 roof flat, almost reverse curvature - photo. 3 holes in roof ring
Measured Rise (mm)				7 - photos. 21/Mar/2006).
Measured At Ring No.				
Sag (mm)	80			
Percent Sag				
Sidewall		N	N	(Span = 1880 @ 1.5m D/S from joint of new to old. Ring 7 West
Measured Span (mm)				1.2m ice - photo. 21/Mar/2006).
Measured At Ring No.				
Deflection (mm)	50			-
Percent Deflection				
Floor		N	N	There is a 30 degree bend where the new pipe joins the old.
Bulge (mm)				4
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams	I	N	N	(As visible above ice. Ring 7 rip @ roof - photo. Coupler spans
Separation (mm)	30			searation missing poits rings 7 & 8. At ring 8. 21/Mar/2006).
Longitudinal Seams		Ν	Ν	(Ring 6 upper East seam 2 bolts loose, several others tipping -
Total No. of Cracked Rings	0			pnoto. 21/Mar/2006).
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				-
Proper Lap (Y/N)	No			-
Longitudinal Stagger (Y/N)	Yes		_	
Coating		5	5	
Corrosion By Soil (Y/N)	Yes			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1829, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		5	5						
Baffle			Х						
(Type:)									
Waterway Adequacy		6	5	(1.3m ice @ mid - photo. 21/Mar/2006).					
Icing (Y/N)	Yes								
Silting (Y/N)	Yes								
Drift (Y/N)	t (Y/N) No			Silt >0.4m thick near ends.					
Barrel General Rating		2	2	G.R. carried over from 21/Mar/2006. Roof governed.					
			ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall	1	Х	X						
Collar			Х						
Wingwalls			X						
(Shape :)									
Cutoff Wall			Х						
Bevel End	1	6	6	-					
Heaving (mm)	0								
Invert Above/Below Stream Bed				At streambed.					
Above/Below (mm)	0	6	6						
		0	0						
(Type: NATORAL) (Avg. Rock Size(mm) :)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Downstream End General Rati	ng	6	6						
			Structur						
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		8	8						
Bank Stability		6	6						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No			<u> </u>					
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	8						

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Inspector Recommendations	Year	Inspector Co	mments	Department Con	nments	Targ	jet Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTC	DEF								
REPAIR SEAMS									
OTHER ACTION	2012	Level 2 barre	il inspection.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No (%)	ow) 22.2/22	2.2 Suf (%)	fficiency Rating (Last/Now) 40.6/39.2	Est. Repl. Yr 20	025 N	Maint. Req	d. (Y/N)	ŕes
Special LRA emailed to Dor Comments for Next Inspection	iald Saunders 2	24Jul2012.		Department Comments					
Maintenance Reviewed By				Date		Estime	ated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Pre	evious Assistant's Name					
Next Inspection Date	12-Oct-2015		Pre	evious Inspection Date	08-Oct-2009				
Inspection Cycle (Default) (months)	39								
Comment									

					Mainte	nance Recomm	enda	ations						
Inspector Recom	Inspector Recommendations Year Inspector Comments I							Department C	omme	ents		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS													
PLACE ADDITIO	NAL RIP RAP													
REMOVE DRIFT	ACCUMULATION													
INSTALL CONCRETE/STEEL LINING														
INSTALL STRUT														
INSTALL CONCRETE COLLAR/CUTOFF														
REPAIR SEAMS														
OTHER ACTION	OTHER ACTION				parrel inspection.			Defer, AT to in	nspect	in winter when				
OTHER ACTION	HER ACTION													
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) 22 (%)				.2	Sufficiency Rat (%)	ing (Last/Now)	40	0.6/39.2	E	st. Repl. Yr	2025	Maint. R	eqd. (Y/N)	Yes
Special Comments for Next Inspection	LRA emailed to Do	ald Saunders 24Jul2012.						Department Comments	Repla	acement progra	mmed 20	021		
Maintenance Reviewed By Andrew Smikles						Date	30-No	vv-2012 Estimated Total 0						
Proposed Long-T	Proposed Long-Term Strategy													
On 3-Year Progra	am (Y/N)													
Proposed Action														
Previous Inspecto	or's Name	Owen	Salava			Previo	ous A	Assistant's Name						
Next Inspection	Date	12-Oct	t-2015			Previo	ous Ir	Inspection Date 08-Oct-2009						
Inspection Cycle	(Default) (months)	39												
Comment	· · · · · · · · · · · · · · · · · · ·													