				B	rida	e Culve	ert Insp	ection				
Bridge File Nu	mber	74300 -	1 Bridge Culve		neig	c ourve	Form T			CULM		
Year Built		1954					Lot No	••		2		
Bridge or Towr	Name		TENAU					tor Name		– Kris Bosters		
Located Over			TENAU CREE	K. 6.53. WA	TER	RCRS-		tor Class		BR CLS A		
		ST					· ·	Int Name		Brian Cote		
Located On		28:06 C	1 17.922				Assistant Class					
Water Body Cl	./Year						Inspection Date			10-Apr-2012		
Navigabil. Cl./	rear						Data Entry By			Theresa Lacus	sta	
Legal Land Lo	cation	SE SEC	C 16 TWP 59 R	GE 19 W4M			Data Entry Date			08-May-2012		
Longitude, Lati	itude	-112:46	:53, 54:06:02				Reviewer Name			Eric Carcoux		
Road Authority	/	Alberta	Transportation	(AIT)			Reviewer Name			25-Apr-2012		
Contract Main.	Area	CMA07							Name	Brent Herrick		
Clear Roadway	y/Skew	12.9/					· · ·	Review Da		12-Jun-2012		
AADT/Year		3,640 /	2011 (A)				Follow					
Road Classific	ation	RAU-21	3.4-110				lonow	0 0 0				
Detour Length	(km)	3										
Bridge Culver	t Inform	ation										
Number of Cul	verts		4									
Pipe #	Barrel		Span	Rise (or Dia	a.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape
1	MAIN		4267			RP		59.7		160X50	4.8	ARCH
2	MAIN		2019	2226		SPE		27.6		152X51	3.5	ELLIPSE
3	MAIN		2019	2226		SPE		27.6		152X51	3.5	ELLIPSE
4	MAIN		-	1500		MP		27.6		68X13	3.5	ROUND
Special Featur	es		VERT STEEL	STRUTS, VI	ERT	TIMBE	R STRL	JTS				
Utility Attachm		ditab			Uti	lities (L	ocated	at)				
Telephone	South						Gas					
Power	2 wire	s OH 30	m North of c/l.				Municipal					
Others	<b>E</b> 11 (	<b>N</b> 1 (1					Problem (Y/N) No					
Remarks	File ta	ig North	end of primary			h Dees	l/Emale	ankment				
					ast	Now		ation of		tion		
Horizontal Alig	nment				<u>מסנ</u> 7	7	· ·				est. Taper for t	Irning lanes start
Vertical Alignm					7	7	east of Measu over C	Access road to Weskatenau 300m West. Taper for turning lanes east of all culverts. No passing zones in both directions. Measured over tunnel liner pipe. More cover over SPCSP's and I over CSP. Slight sag over culverts.				ns.
Roadway Widt	h (m)		13.000									
Embankment					7	7	Over C	SP.				
Sideslope (	:1)		3.0									
(Height of Co	,	2.5)										
Guardrail (Y/N		,	Yes									
Approach Roa	ad / Emb	bankme	nt General Rat	ing	7	7						
						Upstrea	am End					
Culvert Comp	onent			La	ast	Now	Explan	ation of	Condi	tion		
(Pipe # : <b>1, Sp</b>	an Type	e: Prima	ry Span)				1					
Direction				N								
End Treatment	t (Concre	ete, Stee	I, CONCRETE									
Others, None)												

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			•
Headwall	• •	X	Х	
Collar		5	5	Slabs along collar have settled 350mm on both sides. Cracked collar has separated from bevel.
Wingwalls		X	X	_
(Shape : )		1		
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	600			1
Scour Protection		5	4	Void under West slab.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	4	Void under top of east collar and slab along same side.
	×			
Beavers (Y/N)	Yes			1.5m high dam 30m u/s and 2.0m high dam 45m u/s.
Upstream End General Rating		5	4	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			
Barrel Last Accessible Date	04-Dec-2006		<u>. 4201</u>	Water too deep to enter. Viewed from ends, shape and condition
				look adequate.
Special Features				
Special Feature				
(Type:)				
Special Feature				-
(Type:)				
Roof		N	N	(Bulge at c/l near mid span.From top of ice 2039mmViewed from
Measured Rise (mm)				U/S, shape appears in good condition - photo 204-Dec-2006)
Measured At Ring No.				-
Sag (mm)	0			-
Percent Sag				-
Sidewall		N	N	(150mm bulge at 8:00 position looking D/S, underneath c/l.
Measured Span (mm)	4191		1	04/Dec/2006) At mid pipe.
Measured At Ring No.				- (1.8%. 04/Déc/2006)
Deflection (mm)	76			1
Percent Deflection	2			
Floor	-	N	N	
Bulge (mm)	0	IN	IN	
Measured At Ring No.	0			-
Abrasion (Y/N)	No			-
Circumferential Seams		N	N	(Midpoint has poorly matched seam. 04/Dec/2006)
	250	IN	IN	
Separation (mm)	350			

		Bric	lqe Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm)		
Longitudinal Seams		N	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)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Heavy seepage of white deposits from outside the horizontal seams
Corrosion By Soil (Y/N)	Yes			in sidewalls. 04/Dec/2006)
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy	1	8	8	
Baffle		N	N	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	G.R. carried forward from 04/Dec/2006.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	200			1
Invert Above/Below Stream Bed				
Above/Below (mm)	900			1
Scour Protection		7	7	
(Type : <b>RIP RAP, NATURAL</b> )				1
(Avg. Rock Size(mm) : <b>300</b> )				1
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			
Downstream End General Rati	na	7	7	
			· ·	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		Drift across inlet, 2nd from East.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		5	5	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			Dam u/s.
Upstream End General Rating	1	5	5	
		Brid		lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
Culvert Component (Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Last Span (r		Explanation of Condition 019, Rise (mm): 2226, Type: SPE)
	cation Code: MAIN, S 22-Jun-2007			Explanation of Condition         019, Rise (mm): 2226, Type: SPE)         Viewed from ends, looks adequate, thin ice and deep water.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date				019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features			nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature		Span (n		019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS)		Span (n	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature		Span (n	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : )		Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof		Span (n	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm)		Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No.	22-Jun-2007	Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)		Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag	22-Jun-2007	N	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall	22-Jun-2007	Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)	22-Jun-2007	N	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.	22-Jun-2007	N	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)	22-Jun-2007	N	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection	22-Jun-2007	Span (n           N           N           N           N           N	nm): 20	D19, Rise (mm): 2226, Type: SPE)         Viewed from ends, looks adequate, thin ice and deep water.         Image: SPE interview of the second
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor	22-Jun-2007	N	nm): 20	019, Rise (mm): 2226, Type: SPE)
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	22-Jun-2007	Span (n           N           N           N           N           N	nm): 20	D19, Rise (mm): 2226, Type: SPE)         Viewed from ends, looks adequate, thin ice and deep water.         Image: SPE interview of the second
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	22-Jun-2007	Span (n           N           N           N           N           N	nm): 20	D19, Rise (mm): 2226, Type: SPE)         Viewed from ends, looks adequate, thin ice and deep water.         Image: Second state
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N)	22-Jun-2007	N N N N N N N N	nm): 20	D19, Rise (mm): 2226, Type: SPE)         Viewed from ends, looks adequate, thin ice and deep water.
(Pipe # : 2, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	22-Jun-2007	Span (n           N           N           N           N           N	nm): 20	D19, Rise (mm): 2226, Type: SPE)         Viewed from ends, looks adequate, thin ice and deep water.         Image: Second state

Bridge Inspection & Maintenance System (Web 2005)

		Bric	lge Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN,	Span (r	nm): 20	019, Rise (mm): 2226, Type: SPE)
Longitudinal Seams		N	N	(Rings 5 & 7 on west wall of WSP are cracked with 75 mm of steel
Total No. of Cracked Rings	2			between cracks. 2001/09/17)
Total No. of Rings with Two Cracked Seams				Previous inspector must have meant SPE. No WSP visible in culverts.
Min. Remaining Steel Between Cracks (mm)				1N stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Scaling rust on 300 mm strip on floor of MP. (Most of galvanizing in
Corrosion By Soil (Y/N)	Yes			lower third of both barrels sacrificed. 92). 04/Dec/2006)
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy	1	5	5	
Baffle		N	N	
(Type:)				
Waterway Adequacy	1	5	5	
Icing (Y/N)	No			-
Silting (Y/N)	No			-
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried forward22-June-2007
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		5	5	
(Type : RIP RAP, NATURAL)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			
Downstream End General Ration	ng	5	5	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		N		3rd from East, drift across inlet.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection	1	5	4	Erosio9n along bevel 0.5x0.2x0.1 wide.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion		7	4	
Beavers (Y/N)	Yes			2 dams u/s.
Upstream End General Rating		7	4	
-				
Oschward Osman an and				vert Barrel
Culvert Component				Explanation of Condition
	cation Code: MAIN S	inan (n	nm). 20	10 $Pico(mm)$ : 2226 Typo: SPE
		Span (n	nm): 20	019, Rise (mm): 2226, Type: SPE)
Barrel Last Accessible Date	22-Jun-2007	span (n	nm): 20	019, Rise (mm): 2226, Type: SPE) Not accessible. Viewed from ends, looks adequate.
		Span (n	<u>nm): 20</u>	
Barrel Last Accessible Date		Span (n N	nm): 20	
Barrel Last Accessible Date Special Features			1	
Barrel Last Accessible Date Special Features Special Feature			1	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS)			1	
Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature			1	
Barrel Last Accessible Date <b>Special Features</b> Special Feature (Type : <b>VERT STEEL STRUTS</b> ) Special Feature (Type : )		N	N	
Barrel Last Accessible Date Special Features (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof		N	N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm)		N	N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No.		N	N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)		N	N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall		N	N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)		N	N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.		N	N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)		N	N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection		N N N	N N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor		N	N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)		N N N	N N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	22-Jun-2007	N N N	N N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N)		N N N N N	N N N N	
Barrel Last Accessible Date Special Features Special Feature (Type : VERT STEEL STRUTS) Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	22-Jun-2007	N N N	N N N	

		Brid	dqe Cu	lvert Barrel
Culvert Component				Explanation of Condition
	cation Code: MAIN,			019, Rise (mm): 2226, Type: SPE)
Longitudinal Seams		N	N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	4	Pitting and scaling lower 1/2.
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	Debris at inlet.
Baffle		N	N	
(Type : )				
Waterway Adequacy		4	4	Debris at inlet.
Icing (Y/N)	No			
Silting (Y/N)	No			Lots of drift at U/S end & caught in strutsphoto
Drift (Y/N)	Yes			
Barrel General Rating	100	4	4	GR carried fwd22-June-2007
		D	ownstr	ream End
Culvert Component				Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		5	5	
(Type : RIP RAP, NATURAL)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes		1	

			Upstre	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Second	lary Span)			
Direction		Ν		4th from East.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	-
(Shape : )				
Cutoff Wall		Х	X	
Bevel End		8	8	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	3000			
Scour Protection		7	7	
(Type : <b>RIP RAP</b> )	I			
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			Upstream dams.
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culurant Common and		1 4	Man	Evaluation of Condition
Culvert Component	· · · · · · · · · · · · · · · · · · ·	Last	Now	Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	ocation Code: MAIN, S			Explanation of Condition , Rise (mm): 1500, Type: MP)
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date	· · · · · · · · · · · · · · · · · · ·			
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features	ocation Code: MAIN, S	pan (n		, Rise (mm): 1500, Type: MP)
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature	ocation Code: MAIN, S 10-Apr-2012			
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS	ocation Code: MAIN, S 10-Apr-2012	pan (n	nm):	, Rise (mm): 1500, Type: MP)
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature	ocation Code: MAIN, S 10-Apr-2012	pan (n	nm):	, Rise (mm): 1500, Type: MP)
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS	ocation Code: MAIN, S 10-Apr-2012	pan (n	nm):	, Rise (mm): 1500, Type: MP)
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature	ocation Code: MAIN, S 10-Apr-2012	pan (n	nm):	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : )	ocation Code: MAIN, S 10-Apr-2012	<mark>pan (</mark> r	nm): 4	, Rise (mm): 1500, Type: MP)
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof	pcation Code: MAIN, S 10-Apr-2012 )	<mark>pan (</mark> r	nm): 4	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm)	Decation Code: MAIN, S 10-Apr-2012	<mark>pan (</mark> r	nm): 4	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No.	2 2 2 2 2 2 2 2 2 2 2 2 2 2	<mark>pan (</mark> r	nm): 4	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm)	2 80	<mark>pan (</mark> r	nm): 4	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag	2 80	4 6	nm):	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall	2 80 5 5 2 2 80 5	4 6	nm):	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm)	2 1600 1600 <b>Code: MAIN, S</b> MAIN, S MAIN, S MA	4 6	nm):	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No.	2 1600 2 1600 2	4 6	nm):	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm)	2 10-Apr-2012 1420 2 80 5 1600 2 100	4 6	nm):	Rise (mm): 1500, Type: MP)         Rot in timber chute-photo         3.5%
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor	2 10-Apr-2012 1420 2 80 5 1600 2 100	6 6	nm):	, Rise (mm): 1500, Type: MP) Rot in timber chute-photo
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	2 10-Apr-2012 1420 2 80 5 1600 2 100	6 6	nm):	Rot in timber chute-photo     3.5%
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No.	Apr-2012         10-Apr-2012         1420         2         80         5         1600         2         100         7	6 6	nm):	Rise (mm): 1500, Type: MP)         Rot in timber chute-photo         3.5%
(Pipe # : 4, Secondary Span, Lo Barrel Last Accessible Date Special Features Special Feature (Type : VERT TIMBER STRUTS Special Feature (Type : ) Roof Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm)	2 10-Apr-2012 1420 2 80 5 1600 2 100	6 6	nm):	Rise (mm): 1500, Type: MP)         Rot in timber chute-photo         3.5%

		Brie	dae Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	cation Code: MAIN	l, Span (r	nm):	, Rise (mm): 1500, Type: MP)
Longitudinal Seams		7	7	Rivetted.
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	6	Minor on floor.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy	1	3	3	200mm drop D/S bevel on timber spillway and 3m above s/b.
Baffle		X	Х	
(Type : )				1
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	5	
Culvert Component		Last		ream End Explanation of Condition
(Pipe # : 4, Span Type: Second	lary Snan)	Lasi	NOW	
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		4	4	Bevel section separating from barrel due to sag of bevelphoto
Heaving (mm)				Bevel end inside timber chute.
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	3000			
Scour Protection		5	5	
(Type : RIP RAP, NATURAL)				timber
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	Yes			dam 10m d/s.
Downstream End General Ration	ng	5	5	

		S	structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
-	1			
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom	AGGRADING			Large beaver dam 50m U/S of site.
Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1	NONE)			
(Fish Compensation Measure 2	NONE)			
Channel General Rating		6	6	

				Maintenance Rec	commena	ations					
Inspector Recom	mendations	Year	Inspecto	or Comments		Department Com	iments		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS										
PLACE ADDITIO	NAL RIP RAP										
<b>REMOVE DRIFT</b>	ACCUMULATION										
INSTALL CONCE	RETE/STEEL LINING										
INSTALL STRUT	S										
INSTALL CONCE	RETE COLLAR/CUTC	DFF									
REPAIR SEAMS											
OTHER ACTION		2012	Remove	e debris U/S pipe 2 & 3.							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											_
OTHER ACTION											
Structural Condition Rating (Last/Now) 44.4/44 (%)			4 Sufficiency Rating (Last/Now) (%)								
(%)	ition Rating (Last/NC	OW) 44.4/44	.4		low) 3	37.6/36.6	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					_	Department Comments	Est. Repl. Yr	2020	Maint. Rec	qd. (Y/N)	Yes
(%) Special Comments for	Monitor rot in timber 4.			(%)	_	Department	Est. Repl. Yr		Maint. Rec		Yes
(%) Special Comments for Next Inspection	Monitor rot in timber 4. /iewed By			(%)	_	Department Comments	Est. Repl. Yr				Yes
(%) Special Comments for Next Inspection Maintenance Rev	Monitor rot in timber 4. riewed By ferm Strategy			(%)	_	Department Comments	Est. Repl. Yr				Yes
(%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T	Monitor rot in timber 4. riewed By ferm Strategy			(%)	_	Department Comments	Est. Repl. Yr				Yes
(%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra	Monitor rot in timber 4. riewed By ferm Strategy am (Y/N)		ent/voids u	(%) Inder collar, circumferential se	eam pipe	Department Comments	Est. Repl. Yr				Yes
(%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspector	Monitor rot in timber 4. viewed By ferm Strategy am (Y/N)	- chute, settlem	ent/voids u	(%) Inder collar, circumferential se	eam pipe	Department Comments Date	Est. Repl. Yr				Yes
(%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecto Next Inspection D	Monitor rot in timber 4. riewed By ferm Strategy am (Y/N) pr's Name Date	Arnold Assent	ent/voids u	(%) Inder collar, circumferential se	eam pipe	Department Comments Date					Yes