Bridge Culvert Inspection													
Bridge File Nur	nber	78010	-1 Bridge Culve	rt			Form Type		CULM				
Year Built/Line	d	1975/1997					Lot No			1			
Bridge or Town	n Name	GAGE					Inspec	tor Name	1	Russel Vanderschaaf			
Located Over TRIBUTARY TO ISLAND CREE 8 10 80 2 3 WATERCRS-ST					K,		Inspector Class			BR CLS B			
Located On		64:06 0	C1 13.126				Assista	ant Name					
Water Body Cl.	./Year						ASSIST	tion Doto		02 Nov 2011			
Navigabil. Cl./Y	/ear						Inspection Date			03-Nov-2011			
Legal Land Loc	cation	SW SE	C 36 TWP 82 R	GE 4 W6	М		Data E	Data Entry By I neresa Lacusta					
Longitude, Lati	tude	-118:29	9:47, 56:08:46				Data Entry Date			Fric Carcoux			
Road Authority	,	Alberta	Transportation	(AIT)			Review	v Date	•	20-Nov-2011			
Contract Main.	Area	CMA04	Ļ				Dent F	Reviewer	Name	Steve Pasquar	<u>า</u>		
Clear Roadway	//Skew	9.8 /					Dept. F	Review Da	ate	10-Jan-2012			
AADT/Year		1,030 /	2010 (A)				Follow	-Up By					
Road Classifica	ation	RAU-2	10-110				_	. ,					
Detour Length	(km)	3											
Bridge Culver	t Inform	ation											
Number of Culv	verts		4	.		_							
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1200		MP		24		68X13	2.8	ROUND	
3	MAIN		-	914		MP		18.3		68X13	2.8	ROUND	
4	MAIN		- 914			MP		18.3		68X13	2.8	ROUND	
5	MAIN F	ULL	-	675		CP		21.3				ROUND	
Special Feature	es												
Special Feature	es Comr	nent											
					114			a (1)					
Litility Attachme	ante				Ut	inties (L		at)					
							Gas						
Power	3 line	nower-F	ast				Munici	Municipal					
Others							Problem (Y/N) No						
Remarks									1 -				
				Ар	proa	ch Road	d / Emb	ankment					
					Last	Now	bw Explanation of Condition						
Horizontal Aligi	nment				8	8	_						
Vertical Alignm	ent				8	8	(500 x May 2,	(500 x 500 x 500mm role in embankment above u/s end of pipe				end of pipe 3	
Roadway Widtl	h (m)		9.800					,					
Embankment					Ν	7							
Sideslope (_:1)		3.0										
(Height of Co	over(m) :	1)	·										
Guardrail (Y/N))		No										
Approach Road / Embankment General Rating			8	8									
						Upstre	am End						
Culvert Comp	onent				Last	Now	Explar	nation of	Condit	tion			
(Pipe # : 1, Sp	an Type	e: Seco	ndary Span)										
Direction					Е		South	Pipe.					
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL										
Headwall			Х	X									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Second	ary Span)	1	1	
Collar		X	X	
Wingwalls		X	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		6	6	Small dent at 12 o'clock.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection	·	N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No		1	
Upstream End General Rating		6	6	
		Brid		wart Barrol
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1. Secondary Span. Lo	cation Code: MAIN. S	Span (r	nm):	. Rise (mm): 1200. Type: MP)
Barrel Last Accessible Date	04-Nov-2011			
Special Features	1			
Special Feature				
(Type:)			1	
Special Feature				
(Type:)				
Roof		6	6	-4 - 0
Measured Rise (mm)	1192			
Measured At Ring No.				
Sag (mm)	8			
Percent Sag	1		_	
Sidewall	I	6	6	
Measured Span (mm)	1204			at c/l
Measured At Ring No.				Small construction bulge at 10 o'clock approx 8m from d/s end
Deflection (mm)	49			
Percent Deflection	1		1	
Floor		7	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No		-	
Circumferential Seams		6	4	Separation @ 4m from d/s end.
Separation (mm)	50			
Longitudinal Seams		X	X	
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)				

Bridge Inspection & Maintenance System (Web 2005)

	1	Bric	dge Cu	lvert Barrel			
Culvert Component		Last Now		Explanation of Condition			
(Pipe # : 1, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)			
Coating		6	6	Staining.			
Corrosion By Soil (Y/N)	No						
Corrosion By Water (Y/N)	Yes						
Camber POS/ZERO/NEG	ZERO						
Ponding (Y/N)	No						
Fish Passage Adequacy		N	5	(200mm drop d/sMAY 2, 2008)			
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		6	6				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		6	6				
		D	ownstr	ream End			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Span Type: Second	ary Span)						
Direction		W		South pipe.			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		X	X				
Collar		Х	Х				
Wingwalls		Х	Х				
(Shape :)							
Cutoff Wall		X	Х				
Bevel End		6	5	Bevel end bent at 12 o'clock.			
Heaving (mm)	0						
Invert Above/Below Stream Bed	ABOVE						
Above/Below (mm)	200						
Scour Protection		N	5				
(Type : NATURAL)							
(Avg. Rock Size(mm) :)							
Scour/Erosion		N	5				
Beavers (Y/N)	No						
Downstream End General Ratir	ng	6	5				
			Up <u>stre</u>	am End			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 3, Span Type: Second	ary Span)						
Direction		E		(2nd from North pipe)			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		Х	Х				
Collar		X	Х				

Bridge Inspection & Maintenance System (Web 2005)

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			am End					
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 3, Span Type: Second	lary Span)							
Wingwalls		X	X					
(Shape :)								
Cutoff Wall		X	Х					
Bevel End		N	3	Deep pitting rust - lower 1/2 of pipe.				
Heaving (mm)	0			Extensive rust in lower 1/2 of pipephoto				
Invert Above/Below Stream Bed				_				
Above/Below (mm)	0		-					
Scour Protection		6	6					
(Type : NATURAL)				-				
(Avg. Rock Size(mm) :)		1						
Scour/Erosion		6	6	Grass growing into bevel.				
Beavers (Y/N)	No							
Upstream End General Rating	- -	3	3					
		Bri	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 3, Secondary Span, Lo	ocation Code: MAIN, S	Span (I	mm):	, Rise (mm): 914, Type: MP)				
Barrel Last Accessible Date				Viewed from ends. Pipe inaccessible.				
Special Features								
Special Feature								
(Type :)								
Special Feature								
(Туре :)								
Roof		N	N					
Measured Rise (mm)				-				
Measured At Ring No.				-				
Sag (mm)								
Percent Sag								
Sidewall		N	N					
Measured Span (mm)								
Measured At Ring No.								
Deflection (mm)								
Percent Deflection								
Floor		N	3	Rusted hole u/s (photo) (700mm x 2500mm)				
Bulge (mm)				visible from ena.				
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		N	N	Split seam visible ~ 2m from u/s end.				
Separation (mm)								
Longitudinal Seams		X	X					
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)								

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel							
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 914, Type: MP)				
Coating		3	3	Rusted hole u/s.(700mm x 900mm)				
Corrosion By Soil (Y/N)	No			700x1200 u/s. Severe pitting rust d/s end -photo				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							
Fish Passage Adequacy		6	6					
Baffle		Х	Х					
(Туре :)								
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating		N	3					
			ouroctr	nom End				
Culvert Component		Last	Now	ean End Explanation of Condition				
(Pipe # : 3 Span Type: Second	ary Span)	Last	1101					
Direction		W/						
End Treatment (Concrete Steel	STEEL							
Others, None)	SILL							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		Х	X					
Bevel End		N	4	Pitting & scaling rust.				
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		N	5					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)		,						
Scour/Erosion		N	5					
Beavers (Y/N)	No							
Downstream End General Ratir	ng	4	4					
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 4, Span Type: Second	ary Span)							
Direction		Е		(north pipe)				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		Х	Х					

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Second	lary Span)			
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	Х	
Bevel End		4	3	Hole in floor (400x600)-photo
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating	1	4	3	
		Bri	dqe Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	ocation Code: MAIN, S	Span (i	mm):	, Rise (mm): 914, Type: MP)
Barrel Last Accessible Date				Viewed from ends. Shape appears adequate. Pipe inaccessible
Special Features				
Special Feature				
(Type:)			_	
Special Feature				
(Type:)			-	
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No				
Deflection (mm)				
Percent Deflection				
Floor		N	2	Rustedf hole at u/s end (400mm x 600mm). Visible from end
Bulge (mm)			5	
Measured At Ring No				
Abrasion (V/N)				
Circumferential Seams		N	N	
Separation (mm)			14	
Longitudinal Seams		X	X	
Total No. of Cracked Pings			Λ	
Total No. of Rings with Two				
Cracked Seams				
Between Cracks (mm)				-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				

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Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 4, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm):	, Rise (mm): 914, Type: MP)					
Coating		3	3	Deep pitting rust throughout & cracks in crests of corrugation near					
Corrosion By Soil (Y/N)	No			d/s end and u/s end. Hole in u/s end.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								
Fish Passage Adequacy		6	6						
Baffle		Х	Х						
(Туре :)		1							
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	3						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 4, Span Type: Second	lary Span)								
Direction		W							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		N	X						
Bevel End		N	4	Pitting & Scaling rust - 300 x 100 mm hole N side of invert.					
Heaving (mm)	0			Small dent at 12 o'clock.					
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	200								
Scour Protection		N	4	Erosion at bevel					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	4	Erosion at bevel					
Beavers (Y/N)	No								
Downstream End General Ration	ng	3	4						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 5, Span Type: Second	lary Span)								
Direction		Е		(2nd from south pipe)					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	X						

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Span Type: Second	lary Span)			
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		N	5	Pitting rust on floor.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
		Bri	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 5, Secondary Span, Lo	ocation Code: MAIN, S	Span (i	nm):	, Rise (mm): 675, Type: CP)
Barrel Last Accessible Date				Viewed from d/s end. Shape appears good. Pipe inaccessible
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)			-	
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall	1	N	N	
Measured Span (mm)				
Measured At Ring No				
Deflection (mm)				1
Percent Deflection				1
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	X	
Separation (mm)			Λ	
Longitudinal Seams		X	Y	
Total No. of Cracked Rings		A	Λ	
Total No. of Rings with Two				
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Inspection & Maintenance System (Web 2005)

78010 -1 Bridge Culvert

Carlver Component Last Nov Explanation of Condition Concision by Sold (YN)			Brio	lge Cu	Ivert Barrel				
(Pipe J: 5, Secondary Span, Location Code: MAIN. Span (mm): 57, Type: CP) . Rise (mm): 675, Type: CP) Corrosion By Soil (Y/N) A X Concrete pipe. Corrosion By Soil (Y/N) A X Concrete pipe. Corrosion By Soil (Y/N) No Approx 150mm of sag. Viewed from ends. Constraine POSZERONEG NEG Approx 150mm of sag. Viewed from ends. Panding (Y/N) No Image: State (Mm): State (Mm)	Culvert Component			Now	Explanation of Condition				
Concision Y X X Concrete pipe. Corrosion By Water (YAN) Approx 150mm of sag, Viewed from ends. Carling (YAN) No Approx 150mm of sag, Viewed from ends. Panding (YAN) No Image: Concerte pipe. Fish Passage Adequacy Image: Concerte pipe. Approx 150mm of sag, Viewed from ends. Baffie X X Viewerway Adequacy Image: Concerte pipe. Image: Concerte pipe. Cype :) X X Viewerway Adequacy Image: Concerte pipe. Image: Concerte pipe. Stifting (YAN) No Image: Concerte pipe. Drift (YAN) No Image: Concerte pipe. Stifting (YAN) No Image: Concerte pipe. Drift (YAN) No Image: Concerte pipe. Curver Component Least Now Meditation of Condition Cype : S. Span Type: Second=recertery Span: Image: Concertery Span: Direction Miter State St	(Pipe # : 5, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 675, Type: CP)				
Corregion By Solit (Y.N) Image: Solit Viewed from ends. Camber POS/ZEROINEG NEG I Approx 150mm of sag. Viewed from ends. Ponding (Y/N) No I Image: Solit Viewed from ends. Fish Passage Adequacy 5 5 100mm drop @ connections u/s and d/s. Baffie X X X Crype :) Image: Solit Viewed from ends. Image: Solit Viewed from ends. Baffie (M) No Image: Solit Viewed from ends. Sitting (Y(N) No Image: Solit Viewed from ends. Sitting (Y(N) No Image: Solit Viewed from ends. Direction No Image: Solit Viewed from ends. Converte General Rating No Image: Solit Viewed from south pipe) End Trestment Concrete, Steel, SteEL Image: Solit Viewed from south pipe) Image: Solit Viewed from south pipe) End Trestment Concrete, Steel, SteEL X X Image: Solit Viewed from south pipe) End Trestment Concrete, Steel, Steelee X X Image: Solit Viewed from south pipe) End Trestment Concrete, Steelee X X Image: Solit Viewed from solit Pipe) End Trestment Concrete, Steelee X <td>Coating</td> <td></td> <td>Х</td> <td>X</td> <td>Concrete pipe.</td>	Coating		Х	X	Concrete pipe.				
Consistion By/ Water (YM) NEG Image: Marce (YM) Camber POS/ZERO/NEG NEG Image: Marce (YM) Ponding (YM) No Image: Marce (YM) Fish Passage Adequacy S S 100mm drop & connections u/s and u/s. Baffie X X Cype :) Image: Marce (YM) No Baffie X X Cype :) No Image: Marce (YM) Stilling (YM) No Image: Marce (YM) Drift (YM) No Image: Marce (YM) Barrel Goeral Rating Image: Marce (YM) Barrel Goeral Rating Image: Marce (YM) Culvert Component Image: Marce (YM) Culvert Component Image: Marce (YM) Culvert Component Image: Marce (YM) Collar Y X Collar Y X K X Sever End Image: Marce (YM) One Image: Marce (YM) No X Sever End Image: Marce (YM) Collar X X X Sever End Image: Marce (YM) Image: Marce (YM) Image: Marce (YM) Sever Endor (Image: Marce (YM) Image: Marce (YM)	Corrosion By Soil (Y/N)								
Camber POS/ZERO/NEG NEG Image: Media series of the serie	Corrosion By Water (Y/N)								
Ponding (Y/N)NoImage: Second se	Camber POS/ZERO/NEG	NEG			Approx 150mm of sag. Viewed from ends.				
Fish Passage Adequacy 5 5 100mm drop @ connections u/s and d/s. Baffile X X X Ctype :) X X User way Adequacy 6 6 6 Dift (Y/N) No X X Calvert Component Last Now Explanation of Condition Calvert Component Last Now Explanation of Condition Calvert Component X X X Direction W X X Presentment (Concrete, Steel, STEEL X X Collar X X Vingwalls X X Collar X X Vingwalls X X Collar X X Mingwalls X X Collar X X Mingwalls X X Collar X X Mingwalls X X Courd Protection N 6 Disour Protection N 6 </td <td>Ponding (Y/N)</td> <td>No</td> <td></td> <td></td> <td></td>	Ponding (Y/N)	No							
Baffle x x Ctype :) Waterway Adequacy 6 6 king (Y/N) No Sitting (Y/N) No Drift (Y/N) No Barrel General Rating No N Culvert Component Last Now Explanation of Condition W Culvert Component Last Derift (Y/N) No Derift (Y/N) No End Treatment (Concrete, Steel, STEEL V Collar X X Vingwalls X X (Shape :) X X Cutoff Wall X X Heaving (m) 0 Invert Above/Below Stream Bed Above/Below Teme Ind Concetterion N 6 Beaver (Y/N) No 6 Beavers (Y/N) No 6 Beavers (Y/N) No 6 Beavers (Y/N) No 5 Structure Usage Structure Usage	Fish Passage Adequacy		5	5	100mm drop @ connections u/s and d/s.				
$ \begin{array}{ $	Baffle		Х	Х					
Waterway AdequacyNo666lcing (Y/N)No $>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>$	(Туре :)								
leing (Y/N)NoNoSitting (Y/N)NoNoBarrel General RatingNNRNNCulvert ComponentLastNwExplanation of ConditionCulvert ComponentSecondary SpanDirectionWCald from south pipe)DirectionV(2nd from south pipe)CollarXXKing willsXXCollarXXKing (mm)OXXBervel EndVYSHeaving (mm)OVNove Below Stream BedOVAbove/Below (mm)OVScour/FerosionN6Beavers (Y/N)NoYScour/FerosionN6Beavers (Y/N)NoYStour/FerosionN6Constrained End ContractionN6Beavers (Y/N)NoYStour/FerosionN6Beavers (Y/N)NoYStander Log AbolitityY5Stander Log AbolitityY5Stander Log AbolitityY5Stander Log AbolitityY5Stander Log AbolitityY5Stander Log AbolitityY6Beavers (Y/N)NoYStander Log AbolitityY5Stander Log AbolitityY5Stander Log AbolitityY5Stander Log AbolitityYStander Log Abol	Waterway Adequacy	1	6	6	-				
Silting (Y/N) No No Drift (Y/N) No No Barrel General Rating No No Convertige Second Seco	Icing (Y/N)	No							
Drift (Y/N) No No Barrel General Rating N N Barrel General Rating No No Colvert Component Last No Explanation of Condition Collear W Explanation of Condition Collear W X X Pleadwall X X X Collar STEEL X X Vingwalls X X X Collar X X X Wingwalls X X X Collar X X X Bevel End X X X Invert Above/Below (mm) 0 Course of the source General Rating I (@ SB-May 2, 2008) Above/Below (mm) 0 Course of the source Course of the source Course of the source (Aye, Rock Size(mm) :) No 6 <th colspa<="" td=""><td>Silting (Y/N)</td><td>No</td><td></td><td></td><td></td></th>	<td>Silting (Y/N)</td> <td>No</td> <td></td> <td></td> <td></td>	Silting (Y/N)	No						
Barrel General Rating N N N Culvert Component Last Now Explanation of Condition (Pipe # : 5, Span Type: Secondary Span) Now Explanation of Condition Direction W (2nd from south pipe) End Treatment (Concrete, Steel, STEEL X X Others, None) X X (2nd from south pipe) Headwall X X (2nd from south pipe) Collar X X (2nd from south pipe) Wingwalls X X (2nd from south pipe) (Shape :) X X (2nd from south pipe) Culoff Wall X X (2nd from south pipe) Bevel End X X (2nd from south pipe) Invert Above/Below Stream Bed X (2nd from south pipe) Above/Below Stream Bed (2nd from south pipe) (2nd from south pipe) Sour Protection N 6 (2nd from south pipe) Sour Protection N 6 (2nd from south pipe) Soury Crossion N 6 (2nd from south pipe) Downstream End General Ratir N 6 (2nd from south pipe) Stanet (U/S and D/S) Y 5 (2nd from from from from from from from fr	Drift (Y/N)	No		-					
Downstream End Culvert Component Last Now Explanation of Condition Pipe # : 5, Span Type: Secondary Span \blacksquare	Barrel General Rating		N	N					
Curve ComponentLastNowExplanation of Condition(Pipe #: 5, Span Type: Second>resonanceSouth PipelCall from south PipelDrectionSTEELNCall from south PipelCharse, None, Sone, Sone			D	ownstr	ream End				
(Pipe # : 5, Span Type: Secondary Span)DirectionWEnd Treatment (Concrete, Steel, STEEL)V(2nd from south pipe)HeadwallXXKXKXCollarXX(Shape :)XXCutoff WallXXBevel EndXXHeaving (mm)0	Culvert Component		Last	Now	Explanation of Condition				
Direction W V (2nd from south pipe) End Treatment (Concrete, Steel, STEEL STEEL X X Headwall X X X Headwall X X X Collar X X X Kingwalls X X X (Shape :) X X X Cutoff Wall X X X Bevel End X X X Heaving (mm) 0 V X Above/Below Stream Bed M X X Above/Below (mm) 0 V X Scour Protection N 6 Covered with snow. (Type : NATURAL) V K X (Ag. Rock Size(mm) :) N 6 Covered with snow. Scour/Erosion N 6 Covered with snow. Type : NATURAL) V 6 Covered with snow. Gameart (U/S and D/S) No 6 Covered with snow. Atomatic (U/S and D/S) No 6 Covered with snow. Atomatic (U/S and D/S) V 5 Covered with snow. Atomatic (U/S and D/S) V 5 Covered with snow.	(Pipe # : 5, Span Type: Second	lary Span)							
End Treatment (Concrete, Steel, Others, None) STEEL X X Qthers, None) X X X Collar X X X Wingwalls X X X (Shape :) X X X (Shape :) X X X (Shape :) X X X Sevel End 4 5 Pitting rust on floor. Heaving (mm) 0	Direction		W		(2nd from south pipe)				
Headwall X X X Collar X X X Wingwalls X X X (Shape :) X X X Cutoff Wall X X X Bevel End 4 5 Pitting rust on floor. Heaving (mm) 0	End Treatment (Concrete, Steel, Others, None)	STEEL							
Collar X X Wingwalls X X (Shape :) X X (Shape :) X X Cutoff Wall X X Bevel End X X Heaving (mm) 0 V Invert Above/Below Stream Bed 0 V Above/Below Stream Bed 0 V Scour Protection 0 V (Type : NATURAL) 0 V (Avg. Rock Size(mm) :) N 6 Scour/Erosion N 6 Beavers (Y/N) No 5 Downstream End General Rating 4 5 Image: V(N) No 5 Channel (U/S and D/S) Y 5 Bank Stability 7 6	Headwall		Х	X					
WingwallsXXX(Shape :)XXCutoff WallXXBevel End45Heaving (mm)0Invert Above/Below Stream Bed(@ SB-May 2, 2008)Above/Below (mm)0Scour ProtectionN6(Avg. Rock Size(mm) :)KCovered with snow.Scour/ErosionN6Beavers (Y/N)No6Downstream End General Rating45Channel (U/S and D/S)T5Alignment75Bank Stability76HWM (m below Ton of Cutvert)FHWM (m below Ton of Cutvert)FHWM (m below Ton of Cutvert)F	Collar			Х					
(Shape :)Cutoff WallXXXBevel End05Pitting rust on floor.Heaving (mm)00Invert Above/Below Stream Bed0(@ SB-May 2, 2008)Above/Below (mm)00Scour ProtectionN6(Type : NATURAL) (Avg. Rock Size(mm) :)N6Scour/ErosionN6Beavers (Y/N)No6Downstream End General Rature45Explanation of ConditionChannel (U/S and D/S)To del fully met visible.To del fully met visible.	Wingwalls		Х	Х					
Cutoff Wall X X Bevel End 4 5 Heaving (mm) 0 Invert Above/Below Stream Bed (@ SB-May 2, 2008) Above/Below (mm) 0 Scour Protection N 6 (Type : NATURAL) (Q SB-May 2, 2008) (Avg. Rock Size(mm) :) Covered with snow. Scour/Erosion N 6 Beavers (Y/N) No 6 Downstream End General Rating 4 5 Image: Structure Usage Explanation of Condition Channel (U/S and D/S) 7 5 Sank Stability 7 6	(Shape :)								
Bevel End ✓ ✓ Fitting rust on floor. Heaving (mm) 0 (@ SB-May 2, 2008) Invert Above/Below (mm) 0 (@ SB-May 2, 2008) Above/Below (mm) 0 (@ SB-May 2, 2008) Scour Protection N 6 (Type : NATURAL) (Cutoff Wall		X	X					
Heaving (mm)0Image: Constraint of ConditionInvert Above/Below Stream Bed $\ \ \ \ \ \ \ \ \ \ \ \ \ $	Bevel End		4	5	Pitting rust on floor.				
Invert Above/Below Stream Bed 0 0 (@ SB-May 2, 2008) Above/Below (mm) 0 0 Covered with snow. (Type : NATURAL) (Avg. Rock Size(mm) :) Scour/Erosion N 6 Beavers (Y/N) No 6 Beavers (Y/N) No 7 5 Downstream End General Rating 4 5 Channel (U/S and D/S) Alignment 7 5 Bank Stability 7 6	Heaving (mm)	0							
Above/Below (mm)0IScour ProtectionN6(Type : NATURAL) (Avg. Rock Size(mm) :)N6Scour/ErosionN6Beavers (Y/N)No $I = J$ Downstream End General Rating45Channel (U/S and D/S)LastNowExplanation of ConditionTAlignment75Bank Stability76	Invert Above/Below Stream Bed				(@ SB-May 2, 2008)				
Scour Protection N 6 (Type : NATURAL) (Avg. Rock Size(mm) :) Image: Constraint of Con	Above/Below (mm)	0							
(Type : NATURAL) (Avg. Rock Size(mm) :) N 6 Scour/Erosion N 6 Beavers (Y/N) No	Scour Protection		N	6	Covered with snow.				
(Avg. Rock Size(mm) :) N N 6 Scour/Erosion No 0	(Type : NATURAL)								
Scour/ErosionN6Beavers (Y/N)No $I = I$ Downstream End General Rating45Downstream End General Rating45Explanation of ConditionChannel (U/S and D/S)Image: Structure UsageAlignment75Bank Stability76HWM (m below Top of Culvert)	(Avg. Rock Size(mm) :)								
Beavers (Y/N) No 4 5 Downstream End General Rating 4 5 <u>Last Now Explanation of Condition</u> <u>Last Now Explanation of Condition</u> <u>Channel (U/S and D/S)</u> Alignment 7 5 Bank Stability 7 6	Scour/Erosion		N	6					
Downstream End General Rating 4 5 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 5 Bank Stability 7 6 HWM not visible	Beavers (Y/N)	No							
Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) 7 5 Alignment 7 5 Bank Stability 7 6 HWM (m below Top of Culvert) HWM not visible	Downstream End General Ration	ng	4	5					
Last Now Explanation of Condition Channel (U/S and D/S) 7 5 Alignment 7 5 Bank Stability 7 6 HWM (m below Top of Culvert) HWM not visible			S	tructu	re Usage				
Channel (U/S and D/S) 7 5 Alignment 7 5 Bank Stability 7 6 HWM (m below Top of Culvert) HWM not visible			Last	Now	Explanation of Condition				
Alignment 7 5 Bank Stability 7 6 HWM (m below Top of Culvert) HWM not visible	Channel (U/S and D/S)								
Bank Stability 7 6	Alignment		7	5					
HWM (m below Top of Culvert)	Bank Stability		7	6					
	HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N) No	Drift (Y/N)	No							

	Structure Usage									
		Last	Now	Explanation of Condition						
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			5							
Channel General Rating		7	5							

				Maintenance	Recommend	lations					
Inspector Recommendations Year Inspector Comments						Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC)FF										
REPAIR SEAMS											
OTHER ACTION		2012	Complete Le	evel 2 and Assessme	nt						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow)	66.7/33.	3 Su (%	Ifficiency Rating (La	st/Now)	60.5/45.3	Est. Repl. Yr	2013	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date	te Estimated Total 0				
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Brian P	lientsch			Previous	Assistant's Name	tant's Name Lisbeth Medina				
Next Inspection Date	03-Aug	-2013			Previous	ous Inspection Date 24-Feb-2010					
Inspection Cycle (Default) (months)	21										
Comment											