					Brida	e Culve	ert Inspe	ction				
Bridge File Number 78647 -1 Bridge Culvert			Dilag	o ourv	Form Type		CULE					
Year Built 1976						Lot No.			2			
Bridge or Town Name RIV QUI BARR						Inspector Name		Todd Warshawski				
Located Over 2ND ORDER TRIBUTAR						Inspector Class		BR CLS B				
RIVER, 6.65.13.2,			6.65.13.2, WA				Assistant Name					
Located On 44:00 C1 17.345						Assistant Class						
Water Body Cl./Year						Inspection Date			16-Apr-2013			
Navigabil. Cl./Year						Data Entry By			Theresa Lacusta			
Legal Land Location SW SEC 4 TWP 55 RGE 26 W4				М		Data En	ntry Date		30-Apr-2013			
Longitude, Latitude -113:49:07, 53							Reviewer Name		Eric Carcoux			
			Transportation (AIT)				Review Date		29-Apr-2013			
Contract Main. Area CMA09							Dept. R	ept. Reviewer Name Brent Herrick				
Clear Roadway/Skew 18 /							Dept. Review Date		01-May-2013			
AADT/Year		4,580 / 2	. ,				Follow-l	Јр Ву				
Road Classifica		RAU-21	1.8-110									
Detour Length		3										
Bridge Culver												
Number of Culv		1				_						
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape
1	U/S	-		1810	SP			10.9		152X51	3.0	ROUND
1	MAIN	1	1724	1901		SPE	18.3			152X51	2.8	ELLIPSE
1	D/S	-		1810		SP		7.3		152X51	3.0	ROUND
Special Feature				1.0.0		,					10.0	11100112
Special Feature		ment										
Operation of the second												
					Uti	lities (L	_ocated a	at)				
Utility Attachme	ents											
Telephone	West	r/w.					Gas		To No	rth approx 100	m.	
Power	2 wire	s to East	r/w, street ligh	nts.			Municip	al				
Others							Problem	n (Y/N)	No			
Remarks	Tagge	ed on u/s	crown									
				Ap			d / Emba					
					Last	Now	Explanation of Condition					
Horizontal Aligi					7	7	Hwy 37 intersection 20m South of crossing.					
Vertical Alignm				9 9		9	30mm wide crack and ravelling ACP over CSP-photo					
Roadway Width (m)												
			17.800				30mm v	vide crac	k and	ravelling ACP o	ver CSP-phot	0
Embankment			17.800		4	6	30mm v	vide crac	k and	ravelling ACP o	ver CSP-phot	0
Embankment	:1)				4	6	30mm v	vide crac	k and	ravelling ACP o	ver CSP-phot	ס
Sideslope (: 0.8)	5.0		4	6	30mm v	vide crac	k and	ravelling ACP o	ver CSP-phot	0
Sideslope (ver(m) :	0.8)	5.0		4	6	30mm v	vide crac	k and	ravelling ACP o	ver CSP-phot	0
Sideslope (ver(m) :	. 0.8)			4	6	30mm v	vide crad	k and	ravelling ACP o	ver CSP-phot	0
Sideslope (over(m) :		5.0 No	ting	7	7	30mm v	vide crad	k and i	ravelling ACP o	ver CSP-phot	0
Sideslope (over(m) :		5.0 No	ting	7	7		vide crac	k and i	ravelling ACP o	ver CSP-phot	
Sideslope (over(m) :		5.0 No	iing	7	7 Upstre	am End				ver CSP-phot	
Sideslope (over(m) :		5.0 No	ting	7 Last	7					ver CSP-phot	0
Sideslope (ad / Eml	oankmen	5.0 No t General Rat	iing	7	7 Upstre	am End				ver CSP-phot	
Sideslope (ad / Eml	oankmen	5.0 No t General Rat	ting	7 Last	7 Upstre	am End				ver CSP-phot	
Sideslope (ad / Eml	oankmen	5.0 No t General Rat	ting	7 Last	7 Upstre	am End				ver CSP-phot	
Sideslope (ad / Eml	oankmen	5.0 No t General Rat	iing	7 Last W	7 Upstre Now	am End				ver CSP-phot	

Cutvert Component				Upstre	am End
Bevel End	Culvert Component		Last	Now	Explanation of Condition
Heaving (mm)	Cutoff Wall		X	X	
Invert Above/Below (mm)	Bevel End		8	8	
AboveBelow (mm) 500 8	Heaving (mm)	50			
Scour Protection 8	Invert Above/Below Stream Bed	BELOW			
(Type : RIP RAP)	Above/Below (mm)	500			
Avg. Rock Size(mm) : 200	Scour Protection		8	8	
Scour/Erosion 8	(Type : RIP RAP)				
Desire D	(Avg. Rock Size(mm) : 200)				
Second	Scour/Erosion		8	8	
Sride Culvert Component Last Now Explanation of Condition Rise (mm): 1910, Type: SP)	Beavers (Y/N)	No			
Culvert Component Last Now Explanation of Condition (Pipe # ± 1, Primary Span, Location Code: U/S, Span (mm): Rise (mm): 1810, Type: SP) Barrel Last Accessible Date 16-Apr-2013 Ratings for u/s & d/s extensions Special Feature (Type:) Special Feature	Upstream End General Rating		8	8	
Culvert Component Last Now Explanation of Condition (Pipe # ± 1, Primary Span, Location Code: U/S, Span (mm): Rise (mm): 1810, Type: SP) Barrel Last Accessible Date 16-Apr-2013 Ratings for u/s & d/s extensions Special Feature (Type:) Special Feature			Brio	dge Cu	Ivert Barrel
Barrel Last Accessible Date 16-Apr-2013 Ratings for u/s & d/s extensions	Culvert Component				
Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Roof 8 8 8 Measured Rise (mm) 1819 Measured At Ring No. 3 Sag (mm) 0 Percent Sag 0 Sidewall 8 8 Measured Span (mm) 1817 Measured At Ring No. 10 Deflection (mm) 10 Percent Deflection 0 Floor 7 8 Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) No Circumferential Seams 7 8 Total No. of Cracked Rings 0 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams 2N Min. Remaining Steel Between Cracks (mm) 2N Proper Lap (Y/N) Yes Coating N 8 Cocrrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span			
Special Feature	Barrel Last Accessible Date	16-Apr-2013			Ratings for u/s & d/s extensions
Special Feature	Special Features				
Special Feature Common C					
Special Feature Common C	(Type:)				
Roof					
Roof	(Type:)				
Measured At Ring No. 3 3 5 5 5 5 5 5 5 5			8	8	
Measured At Ring No. 3 Sag (mm) 0 Percent Sag 0 Sidewall 8 8 8 Measured Span (mm) 1817 Measured At Ring No. 10 Deflection (mm) 10 Percent Deflection 0	Measured Rise (mm)	1819			
Percent Sag		3			
Sidewall 8 8 Measured Span (mm) 1817 Measured At Ring No. 10 Deflection (mm) 10 Percent Deflection 0 Floor 7 8 Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 15 Longitudinal Seams 7 8 Total No. of Cracked Rings 0 0 Total No. of Rings with Two Cracked Seams 2N Min. Remaining Steel Between Cracks (mm) 2N Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Sag (mm)	0			
Measured Span (mm) 1817 Measured At Ring No. 10 Deflection (mm) 10 Percent Deflection 0 Floor 7 8 Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 15 Longitudinal Seams 7 8 Total No. of Cracked Rings 0 7 Total No. of Rings with Two Cracked Seams 2N Min. Remaining Steel Between Cracks (mm) 2N Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No 8 Corrosion By Water (Y/N) Yes		0			
Measured At Ring No. 10 Deflection (mm) 10 Percent Deflection 0 Floor 7 8 Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 Longitudinal Seams 7 8 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams 2N Min. Remaining Steel Between Cracks (mm) 2N Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Sidewall		8	8	
Measured At Ring No. 10 Deflection (mm) 10 Percent Deflection 0 Floor 7 8 Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 Image: Comparition of the comparities of the co	Measured Span (mm)	1817			
Percent Deflection		10			
Floor	Deflection (mm)	10			
Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 Longitudinal Seams 7 8 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams 2N Min. Remaining Steel Between Cracks (mm) 2N Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Percent Deflection	0			
Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 Longitudinal Seams 7 8 Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams 2N Min. Remaining Steel Between Cracks (mm) 2N Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Floor		7	8	
Measured At Ring No. Abrasion (Y/N) No Circumferential Seams Separation (mm) 15 Longitudinal Seams 7 8 Total No. of Cracked Rings O Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Proper Lap (Y/N) Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) No		0			
Abrasion (Y/N) No Circumferential Seams 7 8 Separation (mm) 15 Longitudinal Seams 7 8 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 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes					
Separation (mm) 15 Longitudinal Seams 7 8 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 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Abrasion (Y/N)	No			
Separation (mm) 15 Longitudinal Seams 7 8 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 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes			7	8	
Longitudinal Seams 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 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Separation (mm)	15			
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 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes			7	8	
Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes		0			
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes					
Proper Lap (Y/N) Yes Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes	Min. Remaining Steel				2N
Longitudinal Stagger (Y/N) Yes Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes		Yes			
Coating N 8 Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes					
Corrosion By Soil (Y/N) No Corrosion By Water (Y/N) Yes			N	8	
Corrosion By Water (Y/N) Yes		No			1
	Camber POS/ZERO/NEG	ZERO			

78647 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 1810, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ıg	7	8	
		Duit	l O	Luci Daniel
Culvert Component			T	Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Local	tion Code: MAIN Sna			·
Barrel Last Accessible Date	16-Apr-2013		<i>)</i> . 1724	, ruse (min). 1301, Type. Of Ly
Dairei Last Accessible Date	10-Αρι-2013			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	7	Diada and an anatomic to in-
Measured Rise (mm)				Risde not measured due to ice.
Measured At Ring No.				Sag est less than 3%
Sag (mm)				- Joay est less than 370
Percent Sag	0			
Sidewall	I	8	7	
Measured Span (mm)	1762			
Measured At Ring No.	6			
Deflection (mm)	38			
Percent Deflection	2		1	
Floor		7	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No		1	
Circumferential Seams		7	7	Lower 1/3 not viewed/rated
Separation (mm)	0		1	
Longitudinal Seams		7	7	
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)	No			
Coating		N	6	Floor of center section30-Sep-2009
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

78647 -1 Bridge Culvert

		Brio	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1724	, Rise (mm): 1901, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	Х	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300		1	
Scour Protection		8	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion	T	8	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	7	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		1	I	
Alignment		7	7	45 degree turn SE downstream.
Bank Stability		8	6	Landowner is rasing banks with fill
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	·			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	6	

		Maintenance	Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	I Gai	mspecior Comments	Department Com	IIICIIIG	Taiget Teal	LSt. COSt	Cat #
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	3						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS	0.1						
OTHER ACTION	2013	Patch crack in CSP over culvert.					
OTHER ACTION	20.0						
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N	low) 77.8/7	7.8 Sufficiency Rating (Las	77.6/75.8	Est. Repl. Yr	2030 Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	16-Jan-2015		Previous Inspection Date	06-Jul-2011			
Inspection Cycle (Default) (months)	21		•	,			
, ,							