			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)									
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		6	N	Minor rust on floor10-Nov-2009						
Heaving (mm)	0									
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		7	N							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	N							
Beavers (Y/N)	Yes			5m U/S.						
Upstream End General Rating		6 6		Carried fwd from 10-Nov-2009						
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1200, Type: MP)						
Barrel Last Accessible Date	Barrel Last Accessible Date 10-Nov-2009			Center pipe. Not accessible, could not view from ends.						
Special Features			_							
Special Feature										
(Туре :)										
Special Feature										
(Type :)										
Roof		3	N							
Measured Rise (mm)	1060			At c/l.						
Measured At Ring No.										
Sag (mm)	140									
Percent Sag	12									
Sidewall		3	N	Sidewall crimping for 40% of barrel - photo10-Nov-2009						
Measured Span (mm)	1320			At c/l						
Measured At Ring No.										
Deflection (mm)	120									
Percent Deflection	10									
Floor		5	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	N							
Separation (mm)	25									
Longitudinal Seams		Х	Х							
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)

72194 -1 Bridge Culvert

		Bric	lge Cu	ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm):	, Rise (mm): 1200, Type: MP)
Coating		6	N	Floor superficial minor rust10-Nov-2009
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Туре :)			1	
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		1	
Barrel General Rating		3	3	GR carried fwd from 10-Nov-2009
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	^r Span)			
Direction		E		Center pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		7	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	N	
(Type : RIP RAP)				4
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	7	7	Gr carried fwd from 10-Nov-2009
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	

			Upstre	am End							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 2, Span Type: Second	lary Span)										
Wingwalls		X	Х								
(Shape :)											
Cutoff Wall		X	X								
Bevel End		6 4		Bevel unsupported for 0.5m10-Nov-2009							
Heaving (mm)	0			debris covered-photo							
Invert Above/Below Stream Bed											
Above/Below (mm)	0										
Scour Protection		4	N	Bevel unsupported for 0.5m10-Nov-2009							
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		4	N								
Beavers (Y/N)	Yes			5m U/S.							
Upstream End General Rating		4	4								
		Bri	dge Cu	Ivert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN,	Span (ı	mm):	, Rise (mm): 1200, Type: MP)							
Barrel Last Accessible Date	10-Nov-2009			North pipe. Could not access due to snow and ice.							
Special Features											
Special Feature											
(Type :)											
Special Feature											
(Туре :)											
Roof		3	N								
Measured Rise (mm)	1060			At c/l.							
Measured At Ring No.											
Sag (mm)	140										
Percent Sag	12										
Sidewall		3	N	Crimping sidewall through 40% of pipe - photo10-Nov-2009							
Measured Span (mm)	1340			At c/l.							
Measured At Ring No.											
Deflection (mm)	140										
Percent Deflection	12										
Floor		5	N								
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)	No										
Circumferential Seams		5	N								
Separation (mm)	25										
Longitudinal Seams		X	Х								
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			Now	Explanation of Condition							
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)							
Coating		6	N	Minor superficial rust on floor of north pipe.							
Corrosion By Soil (Y/N)	No										
Corrosion By Water (Y/N)	Yes										
Camber POS/ZERO/NEG	ZERO										
Ponding (Y/N)	No										
Fish Passage Adequacy	·	5	5								
Baffle		Х	Х								
(Туре :)		1									
Waterway Adequacy	1	7	7								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		3	3	GR carried fwd from 120-Nov-2009							
		D	ownstr	eam End							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 2, Span Type: Second	lary Span)										
Direction		E		North pipe.							
End Treatment (Concrete, Steel, Others, None)	STEEL			Snow covered							
Headwall		X	X								
Collar		X	X								
Wingwalls		X	Х								
(Shape :)											
Cutoff Wall		Х	X								
Bevel End		6	N								
Heaving (mm)	0										
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	200										
Scour Protection		7	N								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 200)		1	1								
Scour/Erosion		7	N								
Beavers (Y/N)	No										
Downstream End General Ratio	ng	6	6	GR carried fwd from 10-Nov-2009							
			Upstre	am End							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 3, Span Type: Second	lary Span)										
Direction		W		South pipe.							
End Treatment (Concrete, Steel, Others, None)	STEEL			Snow covered							
Headwall		X	Х								
Collar		X	x								

	1		Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 3, Span Type: Second	lary Span)									
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		Х	Х							
Bevel End		7	N							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	1100									
Scour Protection		7	N							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	N							
Beavers (Y/N)	Yes			10m U/S.						
Upstream End General Rating	1	7	7	GR carried fwd.						
	1	Bri	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (ı	mm):	, Rise (mm): 1200, Type: MP)						
Barrel Last Accessible Date	10-Nov-2009			South pipe. Snow and ice covered, could not access.						
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		2	N							
Measured Rise (mm)	1010			At c/l						
Measured At Ring No.										
Sag (mm)	190			15.8%						
Percent Sag	16									
Sidewall		2	N	Crimping of sidewall for 40% of barrel10-Nov-2009						
Measured Span (mm)	1400									
Measured At Ring No.										
Deflection (mm)	200			16.7%						
Percent Deflection	17									
Floor		6	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	N							
Separation (mm)	20									
Longitudinal Seams		X	Х							
Total No. of Cracked Rings			-							
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)				1						
Longitudinal Stagger (Y/N)										

Bridge Inspection & Maintenance System (Web 2005)

	l.	Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)
Coating		8	N	_
Corrosion By Soil (Y/N)	No			_
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy	·	5	5	
Baffle		Х	Х	
(Type :)		1		
Waterway Adequacy	1	5	5	-
Icing (Y/N)	No			-
Silting (Y/N)	No			_
Drift (Y/N)	No			
Barrel General Rating		2	2	GR carried fwd from 10-Nov-2009
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Direction		Е		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection	•	7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR carried fwd from 10-Nov-2009
		S	Stru <u>ctu</u>	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Enters U/S on 45 degree angle.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			

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		6	5							

					Mainten	ance Reco	ommenda	ations							
Inspector Recomme	spector Recommendations Year Inspector Comments					Department Cor	nment	ts		Targe	et Year	Est. Cost	Cat #		
SHOTCRETE REPA	AIRS														
PLACE ADDITIONAL RIP RAP															
REMOVE DRIFT AC	CCUMULATION	1	2013	U/S end											
INSTALL CONCRET	TE/STEEL LINING														
INSTALL STRUTS	INSTALL STRUTS													_	
INSTALL CONCRET	TE COLLAR/CUTO)FF										_			
REPAIR SEAMS															
OTHER ACTION			2013	Re-inspe	ct this summer duri	ng low wa	ter.								_
OTHER ACTION												_			
OTHER ACTION															_
OTHER ACTION															_
OTHER ACTION															
Structural Conditio	Structural Condition Rating (Last/Now)22.2/22.2Sufficiency Rating (Last/Now (%)				ow) 4	1.3/40.7	Est	. Repl. Yr	2015	M	aint. Red	qd. (Y/N)	Yes		
Special Comments for Next Inspection Low rating advisory sent to Rizwan on 19-Apr-2013. Monitor deflections until replaced.						til	Department Comments								
Maintenance Review	wed By							Date				Estimat	ed Total	0	
Proposed Long-Terr	m Strategy							·							
On 3-Year Program	(Y/N)														
Proposed Action															
Previous Inspector's Name Wade Nanninga Pr				Previous Assistant's Name											
Next Inspection Date	e	18-Jul-2	2016			F	Previous Ir	evious Inspection Date 10-Nov-2009							
Inspection Cycle (De	efault) (months)	39													
Comment															