				Bridg	ge Culv	ert Inspect	ion				
Bridge File Nu	umber	79922 -	1 Bridge Culve			Form Type			CULM		
Year Built		1992				Lot No.		4	1		
Bridge or Tow	n Name	HAYS			Inspector Name		Name		Jason Rusu		
Located Over			RRIGATION C.	, WATERCRS-I	С	Inspector		E	BR CLS A		
Located On			C1 21.406			Assistant					
Water Body C	L/Year					Assistant					
Navigabil. Cl./								1	17-Mar-2012		
Legal Land Lo		SW SEC	C 24 TWP 12 F	RGF 14 W/4M							
Longitude, La				(02 11 77 1171							
Road Authorit				(ΔIT)		·			•		
			(AII)					•	<u>'</u>		
Clear Roadwa											
AADT/Year	ay/Skew		11 (A)			·					
	ootion		. ,			· ·		,	17-Apr-2012		
Road Classific			0-110			Follow-Up	р Бу				
Detour Length		-									
			4								
Number of Cu				Diag (Di	_) D (''	DI /CI I	0'
Pipe #	Barrel		Span	Rise (or Dia.)		Le	ength	(Jorr. Profile	Pl./Slab Thickness	Shape
1	MAIN		-	900	СР	26	6				ROUND
2	MAIN		-	900	СР	26	3				ROUND
3	MAIN		-	900	СР	26	3				ROUND
4	MAIN		-	900	СР	26	6				ROUND
Special Featu	ires										
				Ut	ilities (l	Located at)					
•				Ut	ilities (l				,		
Telephone	East.	5		Ut	ilities (l	Gas	2	0m Sc	outh.		
Telephone Power	East.	East RO	W.	Ut	ilities (l	Gas Municipal	2		outh.		
Telephone Power Others	East.	East RO	W.	Ut	ilities (l	Gas Municipal	2		outh.		
Telephone Power Others	East.	Inspection Date 17-Mar-2012 17-Mar-201									
Telephone Power Others	East.	East RO	W.	Approa	ch Roa	Gas Municipal Problem (Y/N) N	0			
Telephone Power Others Remarks	East. 3 line	East RO	W.	Approa	ch Roa	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Alig	East. 3 line	East RO	W.	Approa	ch Roa	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Alig	East. 3 line gnment ment	East RO		Approa	ch Roa	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Alig	East. 3 line gnment ment	East RO	W. 8.200	Approa	ch Roa	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Aligue Vertical Aligner	East. 3 line gnment ment lth (m)	East RO		Approa	ch Roa	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Aligue Vertical Aligner	East. 3 line gnment ment lth (m)	East RO		Approa	ch Roa Now 6	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Alig Vertical Alignr Roadway Wid	East. 3 line gnment ment ith (m)1)		8.200	Approa	ch Roa Now 6	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
	gnment ment lth (m) _:1) cover(m):		8.200	Approa	ch Roa Now 6	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C	gnment ment lth (m) _:1) Cover(m):	: 0.6)	8.200	Approa	ch Roa Now 6	Gas Municipal Problem (d / Embank Explanati	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C	gnment ment lth (m) _:1) Cover(m):	: 0.6)	8.200 4.0 No	Approa	ch Roa Now 6 6	Gas Municipal Problem (d / Embank Explanati Curves 30	Y/N) N kment	o onditio	on		
Telephone Power Others Remarks Horizontal Aliq Vertical Alignr Roadway Wid Embankment Sideslope ((Height of C) Guardrail (Y/N	gnment ment ith (m) cover(m):	: 0.6)	8.200 4.0 No	Approa	ch Roa Now 6 6	Gas Municipal Problem (d / Embanl Explanati Curves 30	Y/N) N Kment ion of Co	o ondition h and	on South.		
Telephone Power Others Remarks Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N Approach Ro	gnment ment lth (m) _:1) cover(m): N) pad / Eml	: 0.6) bankmer	8.200 4.0 No No Reneral Rate	Approa	ch Roa Now 6 6	Gas Municipal Problem (d / Embanl Explanati Curves 30	Y/N) N Kment ion of Co	o ondition h and	on South.		
Telephone Power Others Remarks Horizontal Aligor Vertical Alignr Roadway Wide Embankment Sideslope (_ (Height of C) Guardrail (Y/N) Approach Ro Culvert Comp	gnment ment lth (m) _:1) cover(m): N) pad / Eml	: 0.6) bankmer	8.200 4.0 No No Reneral Rate	Approa	ch Roa Now 6 6	Gas Municipal Problem (d / Embanl Explanati Curves 30	Y/N) N Kment ion of Co	o ondition h and	on South.		
Telephone Power Others Remarks Horizontal Aliq Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N Approach Ro Culvert Comp (Pipe # : 1, S Direction End Treatmer	gnment ment ith (m) cover(m): nad / Eml pan Type	: 0.6) bankmer e: Prima	8.200 4.0 No nt General Rate ry Span)	Approa Last	ch Roa Now 6 6	Gas Municipal Problem (d / Embank Explanati Curves 30	Y/N) N Kment ion of Co Oom Nort	o ondition	on South.		
Telephone Power Others Remarks Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C	gnment ment ith (m) cover(m): nad / Eml pan Type	: 0.6) bankmer e: Prima	8.200 4.0 No nt General Rate ry Span)	Approa Last	ch Roa Now 6 6	Gas Municipal Problem (d / Embank Explanati Curves 30 eam End Explanati West.	Y/N) N Kment ion of Co Oom Nort	o ondition	on South.		
Telephone Power Others Remarks Horizontal Alig Vertical Alignr Roadway Wid Embankment Sideslope (_ (Height of C Guardrail (Y/N Approach Ro Culvert Comp (Pipe # : 1, S Direction End Treatmer Others, None)	gnment ment ith (m) cover(m): nad / Eml pan Type	: 0.6) bankmer e: Prima	8.200 4.0 No nt General Rate ry Span)	Approa Last	ch Roa Now 6 6 7	Gas Municipal Problem (d / Embank Explanati Curves 30 eam End Explanati West.	Y/N) N Kment ion of Co Oom Nort	o ondition	on South.		

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls			X	
(Shape:)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion			6	
Beavers (Y/N)	No			
Upstream End General Rating			6	
		Brio	ige Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 900, Type: CP)
Barrel Last Accessible Date				Too small to inspect- confined space.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			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)				

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 900, Type: CP)
Coating			Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			Х	
Baffle			Х	
(Type:)				
Waterway Adequacy			X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)			
Direction		E		East.
End Treatment (Concrete, Steel, Others, None)				Unknown- covered by gates.
Headwall			X	
Collar			Х	
Wingwalls			X	
(Shape:)				
Cutoff Wall			Х	
Bevel End			X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			8	Concrete gate structure protects outlet from scour action.
(Type : CONCRETE)				
(Avg. Rock Size(mm):)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng		8	
			Up <u>stre</u>	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall			Х	
Collar			Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Wingwalls			Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End			Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			7	
		Bric	lae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN. S			, Rise (mm): 900, Type: CP)
Barrel Last Accessible Date	,		, ,	Not accessible- not bridge size.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		'		
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brid	ige Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 900, Type: CP)
Coating			Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			Х	
Baffle			Х	
(Type:)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
			ľ	
		D	1	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		Е		East.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall			X	
Collar			Х	
Wingwalls			Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End			Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			8	Water control gate.
(Type : CONCRETE)				
(Avg. Rock Size(mm):)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Ratir	ng		8	
			Instra	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction	, - [-····/	W		West.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			, 11001
Headwall			Х	
Collar			X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	ary Span)			
Wingwalls			Х	
(Shape:)				
Cutoff Wall			X	
Bevel End			Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			7	
		Bric	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 900, Type: CP)
Barrel Last Accessible Date			•	Not bridge size- not accessible.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			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)				

		Brio	lge Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	pan (n	nm):	, Rise (mm): 900, Type: CP)
Coating			X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			Х	
Baffle			Х	
(Type:)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			N	
Burrer General Ruting			'`	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	ary Span)			
Direction		E		East.
End Treatment (Concrete, Steel, Others, None)				Not visible.
Headwall			X	
Collar			Х	
Wingwalls			X	
(Shape:)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			8	
(Type : CONCRETE)				
(Avg. Rock Size(mm):)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng		8	
			U <u>pstre</u> :	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 4, Span Type: Second	ary Span)			
Direction		W		West.
End Treatment (Concrete, Steel, Others, None)				Buried- not visible.
Headwall			Х	
Collar			Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 4, Span Type: Second	ary Span)			
Wingwalls			Х	
(Shape:)				
Cutoff Wall			X	
Bevel End			7	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			7	
		Bric	de Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 4, Secondary Span, Lo	cation Code: MAIN. S			, Rise (mm): 900, Type: CP)
Barrel Last Accessible Date	,			Not accessible- not bridge size.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			Х	
Total No. of Cracked Rings				1
				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 4, Secondary Span, Lo	cation Code: MAIN, S	3pan (r	nm):	, Rise (mm): 900, Type: CP)
Coating			X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			Х	
Baffle			Х	
(Type:)				
Waterway Adequacy			X	
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating			N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 4, Span Type: Second	lary Span)			
Direction		Е		East.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall			X	
Collar			Х	
Wingwalls			Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End			Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			8	
(Type : CONCRETE)			_	
(Avg. Rock Size(mm):)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng		8	
		S	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			5	90 degree turn @ D/S- Controlled by gates.
Bank Stability			7	
HWM (m below Top of Culvert)				None visible.
Drift (Y/N)	No			

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

		Maintananaa	Recommendations					
Inspector Recommendations	Year	Inspector Comments		ent Comments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	i eai	Inspector Comments	Departine	in Comments		Target Tear	ESI. COSI	Cal #
PLACE ADDITIONAL RIP RAP								+
REMOVE DRIFT ACCUMULATION								_
INSTALL CONCRETE/STEEL LINING								+
INSTALL STRUTS								+
INSTALL CONCRETE COLLAR/CUTO)FF							
REPAIR SEAMS								1
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/No. (%)	ow) /77.8	Sufficiency Rating (La (%)	st/Now) /76.1	Est. Repl.	Yr 2045	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Departme Comment	ent S				
Maintenance Reviewed By			Date			Estimated Tota	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name			Previous Assistant's	Name				
Next Inspection Date	17-Jun-2015		Previous Inspection I	Date				
Inspection Cycle (Default) (months)	39		·					
Comment								