Bridge Culvert Inspection														
Bridge File Num	nber	74833 -1	Bridge Culve	rt			Form T			CUL1				
Year Built		1988					Lot No.		4					
		XHALL				Inspector Name			Jon Davies					
Located Over	dge or Town Name       VAUXHALL         cated Over       BRP - IRRIGATION C, WATE         cated On       36:04 C1 39.855         ter Body CL/Year          yigabil. CL/Year          gal Land Location       SE SEC 34 TWP 13 RGE 16         ngitude, Latitude       -112:05:51, 50:07:28         ad Authority       Alberta Transportation (AIT)         ntract Main. Area       CMA24         ar Roadway/Skew       10.6 /         DT/Year       2,030 / 2010 (A)         ad Classification       RAU-211.8-110         tour Length (km)       3         dge Culvert Information       Rise         mber of Culverts       1         e #       Barrel       Span       Rise         ity Attachments       Span       Rise         ecial Features       I       secial Features       secial Features         ephone       W R/W-x's canal 15m W       wer         aline east r/w.       sers       Fibre optic cable West ROW         marks       STEEL CONDUIT OVER WEST CF         rizontal Alignment       fo.0         tical Alignment       fo.0         adway Width (m)       10.600         bankment       fo.0			WATER	CRS-IC	)	Inspector Class		BR CLS B					
Located On	ridge or Town Name VAUXHALL ocated Over BRP - IRRIGATION C, WATEF boated On 36:04 C1 39.855 /ater Body CL/Year avigabil. CL/Year avigable. Avigable. CH/Pell Avigable. CH/Pel						Assistant Name							
Water Body Cl.	/Year						Assistant Class							
							Inspection Date		02-Jan-2012					
		SE SEC 3	34 TWP 13 R	GE 16 W4	4M					Anne Roberts				
Navigabil. Cl./Year       SE SEC 34 TWP 13 RGE 16 W4I         Legal Land Location       SE SEC 34 TWP 13 RGE 16 W4I         Longitude, Latitude       -112:05:51, 50:07:28         Road Authority       Alberta Transportation (AIT)         Contract Main. Area       CMA24         Clear Roadway/Skew       10.6 /         AADT/Year       2,030 / 2010 (A)         Road Classification       RAU-211.8-110         Detour Length (km)       3         Bridge Culvert Information       Rise (or D         Number of Culverts       1         Pipe #       Barrel       Span         NaNIN       6900       2800         Special Features       Span       Rise (or D         1       MAIN       6900       2800         Special Features       Special Features       Special Features         Special Features       V       V         Vtility Attachments       V       V         Telephone       W R/W-x's canal 15m W       V         Power       3 line east r/w.       Others       STEEL CONDUIT OVER WEST CROW         Remarks       STEEL CONDUIT OVER WEST CROW       Ap         Horizontal Alignment       I       I						Data Entry Date			24-Feb-2012					
Road Authority		Alberta T	ransportation	(AIT)			Reviewer Name		Garry Roberts					
Contract Main.	Area	CMA24					Review Date		20-Jan-2012					
Clear Roadway	/Skew	10.6 /					Dept. Reviewer							
					Dept. F	Dept. Review Date		11-Mar-2012						
Road Classifica	tion	RAU-211	.8-110				Follow-	Follow-Up By						
Detour Length (	km)	3												
		ation												
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	6	900	2800		RPA		23.2		152X51	5.0,4.0,4.0	ARCH		
Special Feature	s													
Special Feature	s Comr	ment												
					Uti	lities (L	ocated	at)						
								1						
			I 15m W			Gas								
							Municipal							
		· · · ·					Problem (Y/N) No							
				A	Last	Now	I / Embankment Explanation of Condition							
Horizontal Align	ment				9	9	Laplan		Contai					
					8	8	-							
			10.600		0	0								
Embankment					8	7								
Sideslope (	rizontal Alignment rtical Alignment adway Width (m) 10.600 hbankment Sideslope (:1) 6.0 Height of Cover(m) : 0.8) ardrail (Y/N) Yes													
(Height of Co	ver(m) :	<b>0.8</b> )												
					2 LAYERS ENDING IN 3 m RADIUS TO CANAL ROADWAYS Incorrect lap at West and at 2 flare ends									
Approach Roa	Approach Road / Embankment General Rating					8								
						Upstre	am End							
Culvert Component			Last		Explanation of Condition									
Direction				W		West invert.								
End Treatment Others, None)	nd Treatment (Concrete, Steel, CONCRETE													
Headwall					8	8								
Collar					8	8								
Wingwalls					8	8								
(Shape : FLA	RE)				-	-								
Cutoff Wall	,				N	N								

Alberta Transportation

	1		Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		8	8					
Heaving (mm)	0							
Invert Above/Below Stream Bed BELOW								
Above/Below (mm)	800							
Scour Protection		8	8					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : <b>150</b> )			1					
Scour/Erosion			8					
Beavers (Y/N) No								
Upstream End General Rating		8	8					
		Bric	lae Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			·				
Barrel Last Accessible Date	03-Jan-2012							
Special Features								
Special Feature								
(Type:)			1	-				
Special Feature								
(Туре : )		,						
Roof		N	6	Est. General roof shape is good.				
Measured Rise (mm)	2650							
Measured At Ring No.	4							
Sag (mm)	150							
Percent Sag 5								
Sidewall		N	7					
Measured Span (mm)	6880			Inward				
Measured At Ring No.	3			-				
Deflection (mm)	20			-				
Percent Deflection	0							
Floor		N	N	700 mm of ice				
Bulge (mm)				-				
Measured At Ring No.				-				
Abrasion (Y/N)			-					
Circumferential Seams		N	6					
Separation (mm)	0							
Longitudinal Seams	1	N	6	3N Stagger on roof only				
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)	No							
Coating		N	5	Superficial corrosion				
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Culvert Component         Last         Now         Explanation of Condition           (Fige 1: 1, Primary Span, Location Code: MAIN, Span (mm): 5900, Rise (mm): 2800, Type: RPA)         Fish Passage Adequacy         X         7           Baffle         X         X         7           Baffle         X         X         7           Waterway Adequacy         9         8         1           Leing (Y/N)         No         5         5           Drift (Y/N)         No         5         5           Baffle General Rating         No         6         5           Drift (Y/N)         No         5         5           Culvert Component         Last         Now         5           Drift Concrete, Steel, CONCRETE         CONCRETE         5           Collar         Explanation of Condition         5           Headwall         Now         8         8           (Shape: FLARE)         CONCRETE         5         5           Collar         Now         8         6           (Shape: FLARE)         No         1         5           Sour Protection         8         8         5           Sour Protection         8         8	Bridge Culvert Barrel									
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6900, Rise (mm): 2800, Type: RPA)         Fish Passage Adequacy       X       7         Baffie       X       X         (Type :)       V       8         Vaterway Adequacy       9       8         Loing (Y/N)       No       9         Sitting (Y/N)       Yes	Culvert Component		1							
Fish Passage Adequacy       X       7         Baffle       X       X         (Type :)       V       X         Waterway Adequacy       9       8         Loing (Y/N)       No		ion Code: MAIN, Spa								
(Type :)       Valerway Adequacy       9       8         lcing (Y/N)       No       Image: Stilling (Y/N)       No         Barrel General Rating       N       6         Downstream End         Culvert Component       Last         Direction       E       Explanation of Condition         Direction       E       Explanation of Condition         Culvert Component       Last       Now         End Treatment (Concrete, Steel, CONCRETE Others, None)       CONCRETE         Others, None)       8       8         Collar       8       8         Collar       8       8         (Shape : FLARE)       8       8         Cutoff Wall       N       N         Bevel End       8       8         Heaving (mm)       0										
Waterway Adequacy         9         8           teing (Y/N)         No	Baffle		Х	Х						
Icing (Y/N)         No         Image: Second	(Туре:)									
Icing (Y/N)         No         Image: Second			9	8						
Sitting (Y/N)         Yes           Drift (Y/N)         No         6           Barrel General Rating         N         6           Culvert Component         Last         No         Explanation of Condition           Direction         E         Explanation of Condition         E           End Treatment (Concrete, Steel, Others, None)         CONCRETE         State         E           Headwall         X         8         8         State         State           Collar         X         8         8         State         State <t< td=""><td></td><td>No</td><td></td><td></td><td></td></t<>		No								
$ \begin{array}{c c c c } \hline \label{eq:rel} I (Y/N) & No \\ \hline \begin{tabular}{ c c } \hline \hline \begin{tabular}{ c c } \hline \hline \begin{tabular}{ c c } \hline \begin{tabular}{ c c } \hline \hline \hline \begin{tabular}{ c c } \hline \hline \ \begin{tabular}{ c c } \hline \hline \ \ \begin{tabular}{ c c } \hline \hline \ \ \begin{tabular}{ c c } \hline \hline \ \ \begin{tabular}{ c c } \hline \hline \hline \ \ \begin{tabular}{ c c } \hline \hline \ \begin{tabular}{ c c } \hline \hline \ \ \begin{tabular}{ c c } \hline \hline \ \ \ \begin{tabular}{ c c } \hline \hline \ \ \begin{tabular}{ c c } \hline \hline \ \ tabula$		Yes								
Barrel General Rating         N         6           Culvert Component         Last         Now         Explanation of Condition           Direction         E         E         E           End Treatment (Concrete, Steel, CONCRETE         CONCRETE         Image: Step 1 and Step 2 an		No								
Culvert ComponentLastNowExplanation of ConditionDirectionEEnd Treatment (Concrete, Steel, OCNCRETECONCRETEHeadwallCollar88Collar88Collar88(Shape : FLARE)88(Shape : FLARE)NNCutoff WallNNBevel End0			N	6						
Culvert ComponentLastNowExplanation of ConditionDirectionEEnd Treatment (Concrete, Steel, OCNCRETECONCRETEHeadwallCollar88Collar88Collar88(Shape : FLARE)88(Shape : FLARE)NNCutoff WallNNBevel End0			ם	ownstr	eam End					
DirectionEEnd Treatment (Concrete, Steel, Others, None)CONCRETEImage: Steel St	Culvert Component									
End Treatment (Concrete, Steel, ODNCRETE       CONCRETE         Headwall       8       8         Headwall       8       8         Collar       8       8         Collar       8       8         Wingwalls       8       8         (Shape : FLARE)       8       8         Cutoff Wall       N       N         Bevel End       8       8         Heaving (mm)       0										
Headwall       8       8         Collar       8       8         Collar       8       8         Wingwalls       8       8         (Shape : FLARE)       8       8         Cutoff Wall       N       N         Bevel End       8       8         Heaving (mm)       0       0         Invert Above/Below Stream Bed       BELOW       4         Above/Below (mm)       800       5         Scour Protection       8       8         (Type : RIP RAP)       (Avg. Rock Size(mm) : 150)       5         Scour/Erosion       8       8         Beavers (Y/N)       No       8         Beavers (Y/N)       No       5         Cownstream End General Rating       8       8         Channel (U/S and D/S)       5       5	End Treatment (Concrete, Steel,	CONCRETE								
Wingwalls         8         8           (Shape : FLARE)         N         N           Cutoff Wall         N         N         N           Bevel End         8         8         8           Heaving (mm)         0	· · · · · · · · · · · · · · · · · · ·		8	8						
(Shape : FLARE)Cutoff WallNNBevel End88Heaving (mm)0	Collar		8	8						
Cutoff Wall     N     N     N       Bevel End     8     8       Heaving (mm)     0	Wingwalls			8						
Bevel End     8     8       Heaving (mm)     0										
Heaving (mm)       0       Invert Above/Below Stream Bed       BELOW         Above/Below (mm)       800       Invert Above/Below (mm)       800         Scour Protection       8       8         (Type : RIP RAP)       (Avg. Rock Size(mm) : 150)       Scour/Erosion         Scour/Erosion       8       8         Beavers (Y/N)       No       Import Volume         Downstream End General Rating       8       8         Structure Usage         Last Now         Explanation of Condition	Cutoff Wall			N						
Invert Above/Below Stream Bed BELOW 800	Bevel End			8						
Above/Below (mm)800Image: Constraint of ConditionScour Protection88(Type : RIP RAP) (Avg. Rock Size(mm) : 150)Image: Constraint of ConditionScour/Erosion88Beavers (Y/N)NoImage: Constraint of ConditionDownstream End General Rating88Image: Constraint of ConditionImage: Constraint of ConditionChannel (U/S and D/S)Image: Constraint of Condition	Heaving (mm) 0									
Scour Protection       8       8         (Type : RIP RAP)       (Avg. Rock Size(mm) : 150)         Scour/Erosion       8       8         Beavers (Y/N)       No       8       8         Downstream End General Rating       8       8         Last       Now       Explanation of Condition         Channel (U/S and D/S)	Invert Above/Below Stream Bed BELOW									
(Type : RIP RAP)         (Avg. Rock Size(mm) : 150)         Scour/Erosion       8       8         Beavers (Y/N)       No	Above/Below (mm) 800									
(Avg. Rock Size(mm) : 150)       8       8         Scour/Erosion       8       8         Beavers (Y/N)       No	Scour Protection		8	8						
Scour/Erosion     8     8       Beavers (Y/N)     No	(Type : <b>RIP RAP</b> )									
Beavers (Y/N)     No     Image: Constraint of Condition       Downstream End General Rating     8     8       Structure Usage       Last Now Explanation of Condition       Channel (U/S and D/S)	(Avg. Rock Size(mm) : 150)		,							
Downstream End General Rating     8     8       Structure Usage       Last Now Explanation of Condition       Channel (U/S and D/S)     V     V	Scour/Erosion			8						
Structure Usage       Last     Now       Explanation of Condition	Beavers (Y/N) No			1						
Last         Now         Explanation of Condition           Channel (U/S and D/S)	Downstream End General Rating		8	8						
Last         Now         Explanation of Condition           Channel (U/S and D/S)	Structure Usage									
				1						
Alignment 9 9 Turn out structure 20m u/s	Channel (U/S and D/S)									
	Alignment			9	Turn out structure 20m u/s					
Bank Stability   8   8   No HMW visible	Bank Stability		8	8	No HMW visible					
HWM (m below Top of Culvert) 0.7	HWM (m below Top of Culvert) 0.7									
Drift (Y/N) No	Drift (Y/N)	No								
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)	(Fish Compensation Measure 2 :	NONE)								
Channel General Rating 9 9				9						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comr	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	w)	55.6/66.	7 Sufficiency Rating (Last/Now (%)	N) 7	<b>4.9/77.0</b> Est. Repl. Yr 2044		2044	Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tom		arey	Pr	evious A	s Assistant's Name						
Next Inspection Date 02-0		02-Oct-2013 Pi			nspection Date						
Inspection Cycle (Default) (months) 21											
Comment											