

Bridge Culvert Inspection				
Bridge File Number	77916 -1 Bridge Culvert		Form Type	CUL1
Year Built	1974		Lot No.	4
Bridge or Town Name	WILD HORSE		Inspector Name	Jason Rusu
Located Over	TRIBUTARY TO SAGE CREEK, 29.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	41:02 C1 3.949		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	15-Jan-2012
Legal Land Location	NE SEC 7 TWP 1 RGE 2 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-110:15:05, 49:01:19		Data Entry Date	04-Mar-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA23		Review Date	24-Jan-2012
Clear Roadway/Skew	10 /		Dept. Reviewer Name	Tim Davies
AADT/Year	150 / 2010 (A)		Dept. Review Date	11-Mar-2012
Road Classification	RAU-209-110		Follow-Up By	
Detour Length (km)	16			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2030	2240	MPE	25	68X13	4.2,4.2,4.2	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West side.		Gas
Power	4W-25m EAST OF C/L		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Hwy 41 curves & drops 300 m south.
Vertical Alignment		7	7	
Roadway Width (m)	9.500			
Embankment		7	7	
Sideslope (__:1)	3.5			
(Height of Cover(m) : 1.1)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		West
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	Gate across the end of the pipe
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	Some class 2 mixed in
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2030, Rise (mm): 2240, Type: MPE)				
Barrel Last Accessible Date	06-Aug-2010			1.5 m Deep ice and water
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	Est
Measured Rise (mm)	2240			P.R 7
Measured At Ring No.	2			
Sag (mm)	0			
Percent Sag				
Sidewall		7	N	(INWARD) 6-Aug-2010
Measured Span (mm)	1980			P.R 7
Measured At Ring No.	2			
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	(200mm silt on floor) 6-Aug-2010
Bulge (mm)	0			
Measured At Ring No.	2			
Abrasion (Y/N)	No			
Circumferential Seams		7	N	P.R 7
Separation (mm)	50			
Longitudinal Seams		X	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	SURFACE CORROSION @ OUTSIDE @ CROWN. (CORROSION WITH SOME PITTING @ SIDEWLLS LOWER 1/2 RUSTING NO PERFORATIONS) 6-Aug-2010
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2030, Rise (mm): 2240, Type: MPE)				
Ponding (Y/N)	Yes			Highway intersects large wetlands/ slough that was dry at last inspection.
Fish Passage Adequacy		X	X	DRY STREAMBED
Baffle (Type :)		X	X	
Waterway Adequacy		7	5	Icing of barrel may reduce capacity of culvert to maintain flows from West slough to East.
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	Gate across the end of the pipe
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 400)		6	6	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	NO DEFINED CHANNEL. APPEARS TO ALSO BE USED AS A CATTLE PASS. CLOSED OFF @ both ends with timber gates
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.5			Ice almost to roof
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	76.6/70.3	Est. Repl. Yr	2023	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	15-Oct-2013		Previous Inspection Date	06-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							