

Bridge Inspection									
Bridge File Number	76091 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1981/1981				Lot No.	2			
Bridge or Town Name	WATER VALLEY				Inspector Name	Garry Roberts			
Located Over	GREASE CREEK, 3.89.26, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	579:02 C1 22.386				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Jul-2012			
Legal Land Location	NE SEC 8 TWP 29 RGE 6 W5M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-114:48:19, 51:28:15				Data Entry Date	27-Aug-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA28				Review Date	27-Jul-2012			
Clear Roadway/Skew	8.6 / -10 deg. (LHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	210 / 2011 (A)				Dept. Review Date	06-Sep-2012			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	64								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS350						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not Req								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	CURVE, CREEK I.D.								

Utilities (Located at)									
Utility Attachments									
Telephone	@ E R/W				Gas				
Power	1W 200m N				Municipal				
Others					Problem (Y/N)	Yes			
Remarks	Temporary cables @ east and along east curb								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	Curves and grade both ends					
Vertical Alignment		7	6						
Roadway Width (m)	9.500			Gravel					
Approach Bump		4	5						
Guardrail (Y/N)		Yes		Missing transition bolts at SE (2), NE (1) and NW (2)					
Guardrail		4	4	Not thriebeam					
Length (m)	15.400								
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		5	7						
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RM, 3 Spans, Lengths(m): 14-16-16, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Random Transverse and longitudinal cracks
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Not visible, covered with asphalt.
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage			5	4	100mm gravel @ gutters- drains on grade to south. 50mm gap at SW end of precast causing abut erosion.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Cracks in curb face approx. every 500 mm. Curb transition pulling away.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			8	8	12 posts A/B with insufficient thread
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			7	6	Strand deflection brackets not grouted in plant at Sp.1-G2,G7 Sp.2-G2,G3 and Sp.3-G1,G2 causing isolated corrosion spots from low cover.
Cracking (Y/N)		No			
Spalling (Percent Area)		2			
(Number Of Girders : <b>24</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 3 Spans, Lengths(m): 14-16-16, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	25			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Active leakage & corrosion stains btwn girders. minor spalls @ deflection brackets
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		N	N	not visible behind girders
Wingwalls		8	8	
Piles		N	N	buried
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		6	6	Minor erosion gullies.
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>3:3</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		6	5	Starting to peel at bases. Stained from grout key corrosion & leakage.
(Colour Description : <b>BROWN</b> )				
(Colour Code : <b>30252</b> )				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	Yes			11 piles from previous abut at SW
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		8	7	
Bank Stability		6	5	Steep cut @ SW
HWM (m below Top of Curb)	4.0			((910919)) No Visible HWM
Drift (Y/N)	No			
Slope Protection		8	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2012	Seal ACP cracks					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING	2012	Clean Deck- Wash					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Ditch in Telus cables					
OTHER ACTION	2012	Remove 11 piles at SW					
OTHER ACTION	2012	Install 4-50mmx16mm dia bolts @ GR to bridgerail connection					
OTHER ACTION	2012	Seal gap at south approach backwall planks-50mm AIFB					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>67.5/67.5</b>	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	18-Oct-2015		Previous Inspection Date	29-May-2009			
Inspection Cycle (Default) (months)	39						

Comment	
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