

Figure 10: Sw ballast wall



Figure 12: Typical bearing front (SE exterior)





Figure 11: Typical bearing front (NW exterior)





Figure 14: Typical bracing (looking NW)



Figure 16: Typical deck edge and railing (SW)



Figure 13: Typical bearing guide plate in slot (SW)



Figure 15: Typical cast-in-place deck joint (SE)













Figure 19: Bridge deck (looking south)



Bridge No.	2017-2 20.0	2318-	Road	Name	Meadowbank	to Amaruq					Inspe	ction Date	20	17-07-13		
STA.	Forest District					Access Notes										
20.0 km											٦					
Bridge Length			Stream C	rossing				Ins	pected By	,						
14.7 o/o m								R.	Smertina			٦				
UTM Zone			East	ing				1	Vorthing							
No. Spans	3	Ins	tallation Da	ate	Current Load	Rating	Deck Width			Project No.			Anticipated Replacement			
1			2017					790	00 mm							
Span / Length	(m)	1	13.88	2	3		П	4		5			6	•	7	
Comments	3	single	span. stee	l girders	with precast co	oncrete de	eck, ii	ntegra	abutment	s						
Excellent: New or almost new condition and properly installed Good: Structurally sound, in good repair and have minimal wear Fair: Structurally sound, but show moderate wear or preliminary indications of rot or corrosion Poor: Structurally unsound, major items in need of repair or replacement, or bridge load rating should be reduced Abutment, spans, piers numbered from left bank, facing downstream / girders numbered from upstream to downstream. Approaches																
Approach Road	i		Go	ood	Ensure road e	mbankm	ent is	grade	d full width	n of th	e bridge (leck				
Alignment			Go	ood	Straight											
Visibility			Go	ood	Weather dependent											
Signage			N	/A	Temporary signage installed currently											
Delineators			N	/A	None											
Overall			Go	ood												
Deck - Span 1																
Running Surface	ce		Go	ood	Lifting lug pockets exposed to gravel and traffic impact											
Grout Pockets			Go	ood	Drip grooves at CIP deck joints not installed (maintenance consideration)											
Curb Rails and	Curb Rails and Risers Fair			air	Only 2 of 3 anchor bolts currently installed at each connection - fit-up problems during construction at some locations											
Hardware Good																
Overall	Overall Good															
Superstructure	- Span	1														
Girders			Exc	ellent												
Bracing				ood												
Diaphragms			Go	ood												
Hardware Exceller				ellent												
Overall	Overall Good															



Bridge No.	2017-2318- 20.0	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13					
Abutment - Nor	th									
Bearings		Fair	Guide plates are nearing the limit of allowed movement on the day of inspection							
Bracing		Good								
Ballast Wall		Good	Some loose evazote under ballast wall and at joint with the deck. Some minor spalling evident at welded embedded plate locations.							
Corrosion Protection		N/A	weathering steel							
Caps or Sills		Good	footings appear level. evidence of footing movement (particularly at NW corner) - either fill has moved forward towards the creek or footing has moved backwards to ballast wall.							
Fill		Poor	approach grading has some gaps near the ends of the deck	approach grading has some gaps near the ends of the deck						
Hardware		Excellent	weathering steel							
Riprap		Excellent								
Wingwall		Good								
Overall		Good								
Abutment - Sou	ıth									
Bearings		Fair	Guide plates are nearing the limit of allowed movement on the day of inspection							
Bracing		Good								
Ballast Wall		Good	Some loose evazote under ballast wall and at joint with the deck							
Corrosion Protection		N/A	weathering steel							
Caps or Sills		Good	footings appear level							
Fill		Poor	approach grading has some gaps near the ends of the deck							
Hardware		Excellent	weathering steel							
Riprap		Excellent								
Wingwall		Good								
Overall		Good								
Hazards										
High Water										
Scour										
Ice										
Debris										
Aggradation										
Channel										
Estimated Pres Level Depth	ent Water									
Estimated Pres Level Width	ent Water									
Estimated High Clearance	Water Level									



Bridge	No. 2017-2318- 20.0 Road Name Meadowbank to Amaruq		_	Inspect	tion Date	2017-07-13			
Repair D	escript	tion and Cost E	stimate						
No.	Desc	ription		Priority	/	Cost Estimat			
1		earing slots for g mmended amoun		ow further movement - see report for	Mediun	1		\$0.00	
2	Grad locati		nents to match bri	idge deck width or provide delineation at gap	Low			\$0.00	
3	Instal	ll permanent sigr	nage at bridge ap	proaches	Low			\$0.00	
4	Grou	t lifting lug pocke	ts in deck to prev	ent damage from gravel and traffic	Low			\$0.00	
5	Instal	ll railings meeting	g facility requirem	ents - ensure all anchor bolts are installed	Low			\$0.00	
6		irm that all bracir ifications	ng and bolted con	nections are tightened according to project	Low			\$0.00	
Monitorii	ng Item	18	mobilization, deliv	very of materials, engineering or contract adm	ninistration.				
No.	Desc	ription							
1	Monit	tor footings and I	oin walls for any f	uture movement					
2	Monit	tor leakage due t	to lack of drip gro	oves at cast-in-place concrete deck soffit					
3	Monit	tor approach gra	ding regularly to	avoid traffic damaging the precast deck panel	edges				
4	Monit	tor for loose or m	nissing evazote at	t underside of ballast wall or joints and replace	e/repair as require	d			
Commen	nts					Seal			
25 degree 12.7 degr 12.4 degr	es C - a rees ski rees ski	in temperature -	emperature inside face of sou outside east face ı - minor noise ob						





Figure 2: Bridge railing connection into deck (SW)



Figure 4: Evazote under south centre girder and ballast wall



Figure 1: Bearing guide plate nearing end of slot (SW outside of bearing)

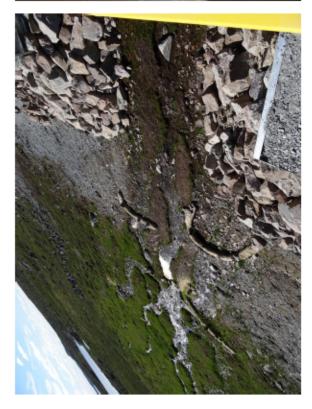


Figure 3: Creek (looking west)





Figure 6: Large weld at ballast wall connection (SW girder, inside face)



Figure 8: North abutment



Figure 5: Front of south centre bearing (west side)



Figure 7: Minor spall at soffit of deck to ballast wall connection (SW)



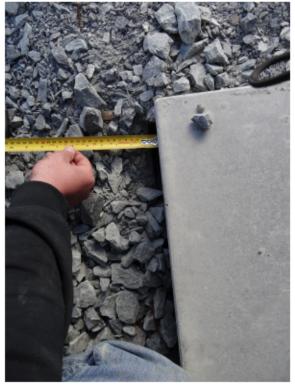


Figure 10: NW footing movement



Figure 12: Soffit of bridge and creek (looking NW)



Figure 9: North centre bearing (front)



Figure 11: SE bearing front outside face





Figure 14: Top of deck (looking south)

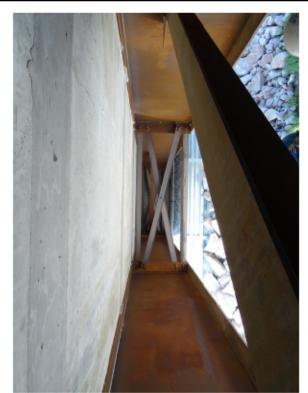


Figure 16: West bracing bay (looking north)



Figure 13: SW bridge exterior



Figure 15: Typical front of bearing (SW)



Bridge No.	2017-2 23.9	2318-	Road	Name	Meadowbank to Amaruq						Inspec	tion Date	2017	7-07-13
STA.	Forest District					Access Notes								
23.9 km														
Bridge Length			Stream C	rossing			Ins	spected By						
67.056 o/o m							R	. Smertina						
UTM Zone			Easti	ng				Northing						
													nticina	ated
No. Spans	;	Insta	allation Da	ate	Current Load	Rating	Dec	k Width		Projec	t No.		Anticipated Replacement	
1			2017				79	00 mm						
Span / Length	(m)	1	66.0	2	3		4		5		6		7	
Comments	3	single s	pan. stee	airders	(5 pieces, spli	ced) with	precast cor	ncrete deck a	nd int	egral abut	ments			
	Excellent: New or almost new condition and properly installed Good: Structurally sound, in good repair and have minimal wear Fair: Structurally sound, but show moderate wear or preliminary indications of rot or corrosion Poor: Structurally unsound, major items in need of repair or replacement, or bridge load rating should be reduced Abutment, spans, piers numbered from left bank, facing downstream / girders numbered from upstream to downstream.													
Approaches														
Approach Road	i		Go	od	Some gaps in	road em	bankment a	approaching (deck (edge				
Alignment			Go	od	straight									
Visibility			Go	od	weather dependent									
Signage			N.	/A	temporary signage installed currently									
Delineators			_	/A	none									
Overall			Go	od										
Deck - Span 1					 									
Running Surface	e		Exce											
Grout Pockets	<u>.</u>			ellent										
Curb Rails and Hardware	Kisers	·	Exce		-									
Overall														
Superstructure	- Span	1	LACC	- Automatic										
				Minor bowing	observed	l in girder w	ebs, particul	arly a	t splice po	ints.				
Bracing						Minor bowing observed in girder webs, particularly at splice points.								
Diaphragms														
Hardware			Exce	ellent										
Overall			Go	od										



Bridge No.	2017-2318- 23.9	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13					
Abutment - North										
Bearings		Fair	Some slot length (amount varies) remaining for guide plate movement. No top keepers were installed during bearing installation.							
Bracing		Good								
Ballast Wall		Good	Some loose evazote under ballast wall and at joint with deck. Some minor spalling evident at welded embedded plate locations.							
Corrosion Prot	ection	N/A	weathering steel							
Caps or Sills		Good	footings appear level. minimal settlement.							
Fill		Poor	approach grading has some gaps near the ends of the deck.							
Hardware		Excellent								
Riprap		Excellent								
Wingwall		Good								
Overall		Good								
Abutment - Sou	ıth									
Bearings		Fair	Some slot length (amount varies) remaining for guide plate movement. No top keepers were installed during bearing installation.							
Bracing		Good								
Ballast Wall		Good	Some loose evazote under ballast wall and at joint with deck. Some minor spalling evident at welded embedded plate locations. Significant ballast wall and bin wall alignment offset.							
Corrosion Prot	ection	N/A	weathering steel							
Caps or Sills		Excellent	footings appear level. minimal settlement.							
Fill		Good	approach grading has some gaps near the ends of the deck.							
Hardware		Excellent								
Riprap		Excellent								
Wingwall		Good								
Overall		Good								
Hazards										
High Water										
Scour										
Ice										
Debris										
Aggradation										
Channel										
Estimated Pres Level Depth	ent Water									
Estimated Pres Level Width	ent Water									
Estimated High Clearance	Water Level									



Bridge	No.	2017-2318- 23.9 Road Name Meadowbank to Amaruq			Inspection Date		2017-07-13			
Repair De	escript	ion and Cost E	stimate							
No.	Desc	ription	/	Cost Estimate						
1		rm that all bracir fications	ng and bolted con	nections are tightened according to project	Low			\$0.00		
2	Wide locati		nents to match br	idge deck width or provide delineation at gap	Low			\$0.00		
3	May o	cut bearing slots	for guide plates t	to allow further movement (optional)	Low			\$0.00		
4	Grout	t lifting lug pocke	ts in deck to prev	ent damage from gravel and traffic	Low			\$0.00		
5	Instal	l railings meeting	g facility requirem	ents - ensure all anchor bolts are installed	Low			\$0.00		
6	Instal	l permanent sigr	nage at bridge ap	proaches	Low			\$0.00		
Monitorin	ng Item	ıs	mobilization, deliv	very of materials, engineering or contract adm	inistration.					
	-	ription	h - II t II - f							
1	+		ballast walls for r							
2	-			avoid traffic damaging the precast deck panel						
3		tor for loose or m	iissing evazote at	t underside of ballast wall or joints and replace			_			
Comments Partial Inspection 2:00 pm Sunny 27.6 degrees Celsius - outside skin temperature of NW girder skin temperature varies to 7.6 degrees C at outside face, NE girder Ambient temperature ~ 13 degrees C Load test conducted on July 15th - minor noise and vibration observed										











Figure 3: Railing connection and deck soffit (SE corner)