Report



GLOBAL PERSPECTIVE. LOCAL FOCUS.

Ministry of Transportation

Hydrographic Survey of Selected Bridges in BC Project No. 05206-0009 Old Kamloops East Bridge #2487



November 2009

ASSOCIATED ENGINEERING
QUALITY MANAGEMENT SIGN-OFF
Signature
Date

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November 26, 2009 File: 20082291.00.E.03.02

lan Sturrock, P.Eng. Ministry of Transportation 4B-940 Blanshard Street PO Box 9850 STN Prov. Gov't. Victoria, BC V8W 9T5

Re: HYDROGRAPHIC SURVEY OF SELECTED BRIDGES IN BC **PROJECT NO. 05206-0009 OLD KAMLOOPS EAST BRIDGE #2487**

Dear Mr. Sturrock:

We are pleased to submit three (3) copies of the report entitled "Hydrographic Survey of Selected Bridges in BC - Old Kamloops East Bridge #2487" to the Ministry of Transportation. We will forward two (2) of the copies directly to the Regional Bridge Engineer and Bridge Area Manager.

If you have any questions, please contact either of the undersigned.

Yours truly,

Joanne Crymble, B.Eng., EIT Project Engineer

where Ward Michael MacLatchy, Ph.D., P.Eng. Senior Water Resources Engineer

JC/MM/lp

CC:

- Ministry of Transportation John Coyne Bill Glen - Ministry of Transportation



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REPORT

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1 Background

Old Kamloops East Bridge is located in Region 2, Contract Area 15 in Kamloops, BC. This bridge carries Mount Paul Way over the Thompson River.

2 Hydrographic Survey

The Old Kamloops East Bridge was surveyed on August 27, 2009 by CRA Canada Surveys Incorporated. The hydrographic survey was conducted using the single-beam echosounder system.

The Old Kamloops East Bridge site was accessed from the South Thompson River on River Drive in Kamloops, B.C. It was noted by the surveyors that the river level, 339.20 m, at the site was exceptionally shallow for the time of the year.

2.1 Equipment

CRA Canada Surveys Incorporated completed the hydrographic surveys using the equipment listed below:

- Trimble Pathfinder Pro XRS DGPS receiver with Omnistar correction
- Trimble S6 Total Station with robotic auto-tracking
- Trimble TSC2 Controller/Field Computer
- 14 foot boat
- Ross Labs 825 single beam echo sounder
- Applied Microsystems SVPlus Velocimeter
- Coastal Oceanographics HYPAK acquisition software

2.2 Procedure

CRA Canada Surveys Incorporated successfully completed the single beam hydrographic survey by using the following procedure:

On-shore Control Setup

- Vertical co-ordinates were established by survey from a MOT identified bridge feature.
- Programmed survey boundaries into on-board computer using HYPACK Max Hydrographic Survey Software to create a digital base map of the survey area to help track the survey coverage.

In-stream Control Setup

• Measured the speed of sound at various water depths using a velocimeter to generate a sound velocity profile for sounding calibration. Measured the sounding speed once near shore and once within the hydrographic survey area for comparison.



- Measured the relative depth between the water surface and a known benchmark and calculated the elevation of the present water surface elevation.
- Measured the water level relative to the known benchmark to periodically check the water level while conducting the survey.
- Measured the offset from the DGPS receiver to the single beam transducer and programmed the offset into the DGPS.

Hydrographic Survey

- Traversed the boat along parallel gridlines during survey for efficient coverage.
- Tracked the boat's position using the AutoTracking Total Station. The boat's course was displayed on-board via computer screen with HYPACK Max software mapping.
- Traversed the boat beyond the limits of the survey boundary to ensure complete coverage.
- Recorded the boat's position and depth measurements on the on-board computer.
- Displayed the sounding coverage on the computer screen to ensure complete coverage of the survey area.

CRA Canada Surveys Incorporated tied the survey into the sounding bench mark located at the top of the roadway on three main truss spans at an elevation of 356.03 m. Attached in Appendix A is the bridge data sheet that was completed during the hydrographic survey.

3 Post-survey Data Processing

Following the survey, CRA Canada Surveys Incorporated processed the sounding data and translated the sounding and position data to an x-, y-, and z-coordinate data set. The hydrographic surveyor filtered out the sounding outliers and reduced the data. Associated Engineering used the final x-, y-, and z-coordinates to create a digital terrain model in Civil 3D 2008. From the digital terrain model, a topographic map was generated with the bridge layout superimposed on the plan. Shown on Drawings 2487-00-101 and 2487-00-102 are the topographic map developed from the hydrographic survey.

Shown on Drawing 2487-00-104 is the general arrangement of Old Kamloops East Bridge with the original ground line, July 2003, December 2004, and current (August 2009) sounding profiles. The bridge general arrangement and the original ground line sounding profile were provided by the Ministry.

The site photos taken by CRA Canada Surveys Incorporated are attached in Appendix B.

4 Scour Analysis

The latest soundings and profile plot (Drawing 2487-00-104) indicate that there have been some changes in the channel bed form since the December 2004 sounding profile. Summarized below is the estimated minimum remaining cover (bottom of the pile tip to present ground line) based on the August 2009 hydrographic survey.



Pier	Cover at Top Pile (m)	Cover at Bottom Pile (m)
No. 1	12.5 ±	29.4 ±
No. 2	9.2 ±	26.0 ±
No. 3	6.0 ±	17.2 ±
No. 4	10.9 ±	27.0 ±

The sounding profile (Drawing 2487-00-104) indicates that the channel at Pier No. 1 has aggraded by approximately 3.9 m since the original survey. The 2004 and 2003 survey profiles do not extend to Pier No. 1.

Between Pier No. 1 and Pier No. 2, the channel has degraded by a maximum of approximately 0.4 m since the 2004 sounding survey, has aggraded by a maximum of approximately 1.0 m since the 2003 survey, and has aggraded by a maximum of approximately 3.7 m since the original survey.

The latest profile indicates that the channel at Pier No. 2 has not changed significantly since the 2004 survey, has aggraded by approximately 1.0 m since the 2003 sounding survey and has aggraded by approximately 1.3 m since the original survey. Between Pier No. 2 and Pier No. 3, the riverbed has maintained the same general form and elevation as the 2004 survey, has aggraded by a maximum of approximately 1.4 m since the 2003 sounding survey, and has degraded by a maximum of approximately 1.8 m since the original survey.

The latest profile indicates that the channel at Pier No. 3 has aggraded by approximately 0.8 m since the 2004 sounding survey, has aggraded by approximately 0.1 m since the 2003 survey, and has degraded by approximately 1.7 m since the original survey. Between Pier No. 3 and Pier No. 4, the riverbed has maintained the same general form and elevation as the 2004 survey, has degraded by a maximum of approximately 0.6 m since the 2003 sounding survey, and has degraded by a maximum of approximately 3.1 m since the original survey.

The latest profile indicates that the channel at Pier No. 4 has degraded by approximately 0.5 m since the original sounding survey. The 2004 and 2003 survey profiles do not extend to Pier No. 4.

All of the piles retain significant embedment, comparable to as constructed conditions, and none of the piers appear to be at any immediate threat. A review of past and current survey conditions does not indicate any significant scour that would pose an immediate threat to the bridge.



Historic peak flow data was obtained from Environment Canada's Water Survey of Canada at the South Thompson River at Chase (08LE031) monitoring station for all recordings from 1911 to 2008. The monitoring station is located approximately 48 km upstream of the Old Kamloops East Bridge. A frequency analysis of the data set was conducted to determine the return period of major flow events that occurred between the December 2004 and August 2009 sounding profiles. It was determined that a flow event slightly greater than the 2-year return period event took place on June 8, 2008.

Lastly, we note that transient scour features may form during a significant flood event and may subsequently backfill as flows recede. The potential occurrence of these features may not be evident during a post-freshet hydrographic survey.

5 Recommendations

Based on information available to us, there does not appear to be any immediate threat to any of the piers of the bridge due to river bed scour. Considering the depth of the piles and bed conditions indicated by the recent and previous surveys, we recommend this bridge be resurveyed after high flows on a three year basis or immediately following a major flood event.



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APPENDIX A - Hydrographic Survey Data Sheet



HYDROGRAPHIC SURVEY OF OLD KAMLOOPS EAST 2487 Hydrographic Survey Company:CRA CANADA SURVEYS INC

Bridge Name: OLD KAMLOOPS E	AST	Date of Survey: Aug	27TH, 2009		Date of Data Compilation: OCT 26, 2009					
Bridge No:	2487	Start Time: 12:00	Completion Time: 16	6:00	Data Processing Technician: ALEX HOWDEN					
Region:	2	Single Beam or Multi	-Beam Model: single	beam	AutoCAD/DTM Technician: ALEX HOWDEN					
Contract Area:	15	Bar check or Velocin	neter Calibration: Yes	s 1477.3m/s	Topography Drawing File	: 2009 2487 CONTOURS	.dwg			
Location: KAMLOOPS, BC		Boat Operator:	ALEX HOWDEN				-			
River or Feature Crossed: THOMPS	ON RIVER	Hydrographic Equip.	Operator: ALEX HO	WDEN						
Hwy: MOUNT PAUL WAY		On-Shore Surveyor: I	RENE CRAWSHAW							
On-Site Contacts		· · ·			•					
Name	Address				Telephone No.	Email				
Survey Monuments					•	•				
			Local Datum		UT	M NAD 83 CSRS Grid				
Identification No.		X (East)	Y (North)	Z (Elev.)	X (East)	Y (North)	Z (Elev.)			
Top of roadway on three main howe	e truss spans	. ,		356.03m	. ,		. ,			
Tide Gauges										
			Local Datum		UT	M NAD 83 CSRS Grid				
Identification No.		X (East)	Y (North)	Z (Elev.)	X (East)	Y (North)	Z (Elev.)			
Bridge Features										
Location		Description								
1) Pier 1 Upstream	K01	Upstream nose of P	ier 1							
2) Pier 1 Downstream	K02	Downstream nose Pi	er 1		SE	EE TRACKLINE PLOT				
3) Pier 4 Upstream	K03	Upstream nose of of	Pier 4							
4)Pier 4 Downstream	K04	Downstream nose of	Pier 4							
			Local Datum		UTM (ZC	ONE 10) NAD 83 CSRS G	rid			
Location		X (East)	Y (North)	Z (Elev.)	X (East)	Y (North)	Z (Elev.)			
1) Pier 1 Upstream	K01				688983.94	5617668.27				
2) Pier 1 Downstream	K02				688975.5	5617668				
3) Pier 2 Upstream	K03				688982.28	5617770.31				
4)Pier 2 Downstream	K04				688973.99	5617769.99				
Photographs										
Identification No.	Description									
Please see attached pdf file: 2009 0	OLD KAMLOOPS	EAST 2487 PHOTOS	.pdf							
Comments: Difficulties with acces	ss to site, bridge	e damage, debris enco	ountered, rip rap da	mage, etc ?						
Launch site in South Thomson Rive	er Kamloops Rive	er Dr.								
Water level at time of inspection 33	9.20m									
River levels were exceptionally shal	low for the time o	of year.								



APPENDIX B - Site Photos





IMG_0895b.JPG



IMG_0896b.JPG



IMG_0897b.JPG



IMG_0898b.JPG



IMG_0899b.JPG



IMG_0901b.JPG



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IMG_0926b.JPG



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IMG_0928b.JPG



REPORT

APPENDIX C - MOT Drawings





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HYDROGRAPHIC SURVEY OF OLD KAMLOOPS EAST 2487 Hydrographic Survey Company:CRA CANADA SURVEYS INC

Bridge Name: OLD KAMLOOPS E	AST	Date of Survey: Aug	27TH, 2009		Date of Data Compilation: OCT 26, 2009					
Bridge No:	2487	Start Time: 12:00	Completion Time: 16	6:00	Data Processing Technician: ALEX HOWDEN					
Region:	2	Single Beam or Multi	-Beam Model: single	beam	AutoCAD/DTM Technician: ALEX HOWDEN					
Contract Area:	15	Bar check or Velocin	neter Calibration: Yes	s 1477.3m/s	Topography Drawing File	: 2009 2487 CONTOURS	.dwg			
Location: KAMLOOPS, BC		Boat Operator:	ALEX HOWDEN				-			
River or Feature Crossed: THOMPS	ON RIVER	Hydrographic Equip.	Operator: ALEX HO	WDEN						
Hwy: MOUNT PAUL WAY		On-Shore Surveyor: I	RENE CRAWSHAW							
On-Site Contacts		· · ·			•					
Name	Address				Telephone No.	Email				
Survey Monuments					•	•				
			Local Datum		UT	M NAD 83 CSRS Grid				
Identification No.		X (East)	Y (North)	Z (Elev.)	X (East)	Y (North)	Z (Elev.)			
Top of roadway on three main howe	e truss spans	. ,		356.03m	. ,		. ,			
Tide Gauges										
			Local Datum		UT	M NAD 83 CSRS Grid				
Identification No.		X (East)	Y (North)	Z (Elev.)	X (East)	Y (North)	Z (Elev.)			
Bridge Features										
Location		Description								
1) Pier 1 Upstream	K01	Upstream nose of P	ier 1							
2) Pier 1 Downstream	K02	Downstream nose Pi	er 1		SE	EE TRACKLINE PLOT				
3) Pier 4 Upstream	K03	Upstream nose of of	Pier 4							
4)Pier 4 Downstream	K04	Downstream nose of	Pier 4							
			Local Datum		UTM (ZC	ONE 10) NAD 83 CSRS G	rid			
Location		X (East)	Y (North)	Z (Elev.)	X (East)	Y (North)	Z (Elev.)			
1) Pier 1 Upstream	K01				688983.94	5617668.27				
2) Pier 1 Downstream	K02				688975.5	5617668				
3) Pier 2 Upstream	K03				688982.28	5617770.31				
4)Pier 2 Downstream	K04				688973.99	5617769.99				
Photographs										
Identification No.	Description									
Please see attached pdf file: 2009 0	OLD KAMLOOPS	EAST 2487 PHOTOS	.pdf							
Comments: Difficulties with acces	ss to site, bridge	e damage, debris enco	ountered, rip rap da	mage, etc ?						
Launch site in South Thomson Rive	er Kamloops Rive	er Dr.								
Water level at time of inspection 33	9.20m									
River levels were exceptionally shal	low for the time o	of year.								

ARGO				BRID	GE INSPECTION REPORT		-			
STRUCTURE NAME:	k	Camlo	oops E	ast Red	_ STRUCTURE NUMBER:	2487 Capt 28/11				
SCHEDULED DATE:	2 ⁿ	^d We	ek Se	eptember	DATE INSPECTED:					
	N/A	G	F	P		N/A	G	F	Р	
DEBRIS RISK			/		PINS/BOLT/RIVETS		1	1		
BANK/BED SCOUR		~			CROSS TIES	1		~		
FOUNDATION		1	6		DECK SLAB	L	-		/	
ABUTMENT/SILLS		V			WEARING SURFACE	-		V		
WING/RETAIN WALLS		V			DECK JOINT	L		-		
PIER FOOTING/PILING		V			CURB/WHEELGUARD	1	1	1		
DOLPHIN/FENDER		0			SIDEWALK	1	V			
BEARING/CAP/CORBELL	1		1		FENCE/POST/RAILING		V		1	
FLR BEAM/ STRINGERS			/		DRAINS	V	-			
FRAMES/PORTELS		U	<		UTILITIES	4				
TRUSS CHORDS		U			PAINT - RAIL/STRUCTURE	12	0	1		
TRUSS DIAGONALS		2			SIGNING/LIGHTING		2	1	-	
TRUSS RODS		V			ROAD APPROACHES		1			
PANELS	2									
COMMENTS Zca of laminate	ps d	he	are a	one de	terioration Sec causing asphal	te c	el ve	per	tin as	
to blow at.	10	2	sio	levelk	planks have	not	5,	Hor	dou	
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ARGO	BRIDGE INSPECTION REPORT										
STRUCTURE NAME:	Kamloops East Red				Red	STRUCTURE NUMBER:	2487				
SCHEDULED DATE:	1 st Week October					DATE INSPECTED:	_ ot 5/11				
	N/A	G	F	P			N/A	G	F	Р	
DEBRIS RISK			/			PINS/BOLT/RIVETS		4	1		
BANK/BED SCOUR		1				CROSS TIES	1	1.5	/		
FOUNDATION		/	1.1			DECK SLAB	V	1.			
ABUTMENT/SILLS		/	_			WEARING SURFACE			1		
WING/RETAIN WALLS		1		1.000		DECK JOINT	1	1		1	
PIER FOOTING/PILING		1				CURB/WHEELGUARD	1.1.1		/		
DOLPHIN/FENDER		/				SIDEWALK		1			
BEARING/CAP/CORBELL			1			FENCE/POST/RAILING		V		6.8.8	
FLR BEAM/ STRINGERS			/	1		DRAINS	/		(TTT)	1.5.5	
FRAMES/PORTELS		1				UTILITIES	/				
TRUSS CHORDS		1		-		PAINT - RAIL/STRUCTURE	1	/			
TRUSS DIAGONALS	1	1				SIGNING/LIGHTING		/			
TRUSS RODS		1				ROAD APPROACHES		/			
PANELS	1		1								
COMMENTS 2 rap	sha	are	Den	ne o	det	Eurostin Severe	la	er	tim	000	
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ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
	1		1 1	
350N	redhed	100m2	hand bushing	1
LEOR	med	2	timber cape	
SOON	mel	50m2	majo re-deck	
1001	med	1853 m	a pratt senface	
SODB	mel	2m2	timber plank	
NODEOTED DV		OLONIAT	UDE	
INSPECTED BY:	\$22	SIGNAT	URE	1
				Alla
				(V)

Road Maintenance (Thompson) Inc.					DGE INSPECTION REPORT				-	
STRUCTURE NAME:	ł	Kamlo	oops	East	STRUCTURE NUMBER:	2487				
SCHEDULED DATE:		4 th W	/eek	Octo	DATE INSPECTED:	at 2/11				
	N/A	G	F	P		N/A	G	F	P	
DEBRIS RISK		5			PINS/BOLT/RIVETS		V	-		
BANK/BED SCOUR		5			CROSS TIES		1.0	/		
FOUNDATION		4			DECK SLAB	U	-			
ABUTMENT/SILLS		/			WEARING SURFACE	1		/		
WING/RETAIN WALLS		1			DECK JOINT	0				
PIER FOOTING/PILING	1	-			CURB/WHEELGUARD	1.1.4		/	1	
DOLPHIN/FENDER		-			SIDEWALK		V			
BEARING/CAP/CORBELL			/		FENCE/POST/RAILING		V			
FLR BEAM/ STRINGERS		4	/	1, 11	DRAINS	/		J		
FRAMES/PORTELS	1.11	>		0110	UTILITIES	1				
TRUSS CHORDS		1			PAINT - RAIL/STRUCTURE		1		1	
TRUSS DIAGONALS		1			SIGNING/LIGHTING		/	e		
TRUSS RODS		/			ROAD APPROACHES		/	100		
COMMENTS a ra laminated deck blaw-out, 1 o	ps 1 k la Z	kav se	e a	eme Cau vol	derination, Sever gasphet wearing larks have not	al . 	ser englan	loca	e up	

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
350N	med high	100 m	hand bushing	
ESOR SCON	med	Som	timber caps	
100L 500B	med	1853 m² 7 m²	applate senjace	
			t passie	
INSPECTED BY:	s22	SIGNAT	URE	
				1.1

ARGO	-			DGE INSPECTION REPORT							
STRUCTURE NAME:	ł	Kamloops East Red				STRUCTURE NUMBER:	2487				
SCHEDULED DATE:	1 st week January					DATE INSPECTED:	Dec 29/11				
	N/A	G	F	P	1		N/A	G	F	P	
DEBRIS RISK		1]	PINS/BOLT/RIVETS		/			
BANK/BED SCOUR		/				CROSS TIES	fr		1		
FOUNDATION			/	1-1		DECK SLAB			1	6	
ABUTMENT/SILLS		1				WEARING SURFACE	\$		V		
WING/RETAIN WALLS		1				DECK JOINT	1	-			
PIER FOOTING/PILING	10.00	1	1.2]	CURB/WHEELGUARD			/	1.	
DOLPHIN/FENDER		V	/			SIDEWALK		1			
BEARING/CAP/CORBELL			/			FENCE/POST/RAILING		V			
FLR BEAM/ STRINGERS			/]	DRAINS	V				
FRAMES/PORTELS		1		1.1		UTILITIES	4		1	10	
TRUSS CHORDS	(4-1)	/	1-1			PAINT - RAIL/STRUCTURE			0		
TRUSS DIAGONALS		4			11	SIGNING/LIGHTING		1		1	
TRUSS RODS		1				ROAD APPROACHES		1			
PANELS	/				10						
COMMENTS 7 cap	one	ed.	rep	loc	ind .	Several laminate	id ,	da	le	se	
lane causen	g a	spi	hal	G	to,	blowart, wheelger	and	06	0	9h	
truss peral	red		Har	d	lon	whing requised	lie	ne	th		
C. H +	Tort	to.				50					

PRIORITY	QUANT.	COMMENTS	WIP ID #
med	2	timber capa	
med	50m2 1002902	major re-deck	•
law	Soln	wheelquard	ь.
med	IDOm ²	Hand brushing	25
s22	SIGNATU	JRE	0
	PRIORITY med med law med	PRIORITY QUANT. med Z med SOm ² med 1852.95m ² law Solm med 100m ² Signatu	PRIORITY QUANT. COMMENTS med Z tember cape med SOM ² major ro-deck med 1852,952 ² asptratt law Soln wheelowerd med 100m ² Nend brush Med JOOm ² Sola brush

Revision #3

May 6, 2004

ARGO	BRIDGE INSPECTION REPORT									
STRUCTURE NAME:	Kamloops East Red				STRUCTURE NUMBER:	2487				
SCHEDULED DATE:		4 th w	eek.	January	DATE INSPECTED:	fa	m Z	-4/	12	
	N/A	G	F	P		N/A	G	F	P	
DEBRIS RISK		/			PINS/BOLT/RIVETS		/			
BANK/BED SCOUR		/			CROSS TIES			/		
FOUNDATION		/	T.		DECK SLAB	/				
ABUTMENT/SILLS		/	-		WEARING SURFACE		<u> </u>	1.3	/	
WING/RETAIN WALLS	100	/			DECK JOINT	1				
PIER FOOTING/PILING		/			CURB/WHEELGUARD		sto	/	17-	
DOLPHIN/FENDER		/	1.1		SIDEWALK		~			
BEARING/CAP/CORBELL			1		FENCE/POST/RAILING		/	1		
FLR BEAM/ STRINGERS	1.20	1.21	/		DRAINS	1				
FRAMES/PORTELS	1.	/			UTILITIES	1				
TRUSS CHORDS	1	/			PAINT - RAIL/STRUCTURE			/		
TRUSS DIAGONALS		/	1		SIGNING/LIGHTING		1	1		
TRUSS RODS	1	/	1	1-1	ROAD APPROACHES		/			
PANELS	1									
COMMENTS 2 caps Actenisted Seve	nee.	los	epla 2e	lanier	appart wearing	ou ca	rfa	ing		
Idowarth of asph 2 dru-trun.	alt		Son	ne u	heelquard pros	ac	zz	ed .	Ð	

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
ESOR	med.	2	Caps	
IDOL	mad	1853.m2	asphilt	_
GADB	med	Solm	wheelquard	
			V	
		- Statis		
INSPECTED BY:	s22	SIGNAT	JRE 33	

Revision #3

May 6, 2004

ARGO feat Nationare (Prosper) fee.				BR	DG	E INSPECTION REP	PORT					1
STRUCTURE NAME:	X	amloc	ps E	ast Red		STRUCTURE NUM	BER:		24	87		i
SCHEDULED DATE:	34	We	ek F	ebruary		DATE INSPECTE	ö	4	R	27	-	di
	N/A	U	L	d.				N/A	U	Ц	٩	
DEBRIS RISK		1				PINS/BOLT/RIVETS			1			
BANK/BED SCOUR		1				CROSS TIES				1		-
FOUNDATION		1				DECK SLAB		/				-
ABUTMENT/SILLS		1				WEARING SURFACE				1		-
WING/RETAIN WALLS		1				DECK JOINT		1				-
PIER FOOTING/PILING		1			-	CURB/WHEELGUARD			1			-
DOLPHIN/FENDER		1				SIDEWALK			7			-
BEARING/CAP/CORBELL			1	1	-	FINCE/POST/RAILING			7			-
FLR BEAM/ STRINGERS						DRAINS		7				T
FRAMES/PORTELS		1				JTILITIES)				-
TRUSS CHORDS		1				AINT - RAIL/STRUCT	URE		7			1
TRUSS DIAGONALS		1				SIGNING/LIGHTING			1			-
TRUSS RODS						ROAD APPROACHES			1			-
PANELS				1								
COMMENTS On of all	ure	Ultr	0	gunta	50	Charked Sit	cuon	test	200	S	200	
deterinated. le	Anna	ate	50	Rede	20	ations loope	Ca	line	8	1000	2he	LE C
I Rworts. Ser	hood	cult	ale	NIDAC	0	X they true	5		Þ	2		1
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		UL	LNJ	URIED A	ALL I	TENANCE						
		1	TAN		TUT	TOUTUNET						

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
Crew	and	2500	marin re-dede	
650R	had	2	Tiller care	
1004	med	1053 22	an adult 0	
190K	med	Solan	wheel award	
			0	
	_			_
PECTED BY:	228	SIGNATU	JREs22	

WIP ID #

COMMENTS

STRUCTURE NAME		6. L.											
OTROCTORE NAME:		Kam	oops	East	Red	STRUCTURE NUMBER	l:	2487					
SCHEDULED DATE:		2 nd	Weel	k Mar	ch	DATE INSPECTED:		m	ar 1	2/			
DEPRES	N/A	G	F	P			NI/A	C	TE	10			
DEBRIS RISK	1-2	/				PINS/BOLT/RIVETS	INA	G	Г	P			
BANK/BED SCOUR		/		-		CROSS TIES	-		-	-			
FOUNDATION	5 A	-				DECK SLAB		-					
ABUTMENT/SILLS		/				WEARING SURFACE	-	-	-				
WING/RETAIN WALLS		/				DECK JOINT	-		-				
PIER FOOTING/PILING		-	1			CURB/WHEELGUARD	-	-	~				
DOLPHIN/FENDER		1	100			SIDEWALK	1						
BEARING/CAP/CORBELL			/			FENCE/POST/RAILING	+	V					
LR BEAM/ STRINGERS			/			DRAINS		2		_			
RAMES/PORTELS		/				UTILITIES	1/	1	-	-			
RUSS CHORDS		/				PAINT - RAIL/STRUCTURE				-			
RUSS DIAGONALS		-				SIGNING/LIGHTING	+	-					
RUSS RODS		-				ROAD APPROACHES	+	-	-				
AD IFT C				the second se				-					

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
SODN 6501 1002 690B	med med med	25.m ² 2 1853m ² 504m	major re-de Inter caps osphatte ukcelgament	eek
NSPECTED BY:	s22	_SIGNATUI	RE_ 53	
				TPA 2012 00202

May 6, 2004

Road Maintenance (Thampton) Inc.		BRI	DGE INSPECTION REPOR	T		_	_
STRUCTURE NAME:	Kamloop	s East Red	STRUCTURE NUMBER		2	487	
SCHEDULED DATE:	1 st we	ek April	DATE INSPECTED:	#		70.	An
DEBRIG	N/A G F	P		N/A	G	F	D
DEBRIS RISK	1		PINS/BOLT/RIVETS	1.117.1		12	F
BANK/BED SCOUR	V		CROSS TIES		-	~	
FOUNDATION	4		DECK SLAB	12			
ABUTMENT/SILLS	-		WEARING SURFACE		-		~
WING/RETAIN WALLS	6		DECK JOINT	1			1
PIER FOOTING/PILING	-		CURB/WHEELGUARD		1	1	
DOLPHIN/FENDER			SIDEWALK		-	1	
BEARING/CAP/CORBELL	-		FENCE/POST/RAILING			V	-
FLR BEAM/ STRINGERS	V		DRAINS	V			
FRAMES/PORTELS	- V		UTILITIES	12	-		-
TRUSS CHORDS	/	1	PAINT - RAIL/STRUCTURE		-	~	
TRUSS DIAGONALS			SIGNING/LIGHTING	1			
TRUSS RODS			ROAD APPROACHES			1	
COMMENTS							
	IDENT	'IFIED MAI	NTENANCE				
CTIVITY	PRIORITY	QUANT.	COMMENTS		I	VIP II) #]
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INSPECTED BY:

s22

SIGNATURE___

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May 6, 2004
East Red	STRUCTURE NUMBER DATE INSPECTED; PINS/BOLT/RIVETS CROSS TIES DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES BAINTDAH (STRUCTURE)		G	487 30/ F V	//2 P
k April	DATE INSPECTED: PINS/BOLT/RIVETS CROSS TIES DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES BAINT DAIL (STRUCTURE)		G	30/ F	//2 P
P	PINS/BOLT/RIVETS CROSS TIES DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES		G	FVV	P
	PINS/BOLT/RIVETS CROSS TIES DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES			2V	
	CROSS TIES DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES	22		V	
	DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES	2 2	~		
	WEARING SURFACE DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES		~		
	DECK JOINT CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES	2	~		V
	CURB/WHEELGUARD SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES				-
	SIDEWALK FENCE/POST/RAILING DRAINS UTILITIES			12	-
	FENCE/POST/RAILING DRAINS UTILITIES	~	v	,/	
	DRAINS UTILITIES	V	-	1	
	UTILITIES	-		~	
	DAINT DAIL STRUCTURE	V	-		
	IFAINT - KAIL/STRUCTURE		-	1	-
	SIGNING/LIGHTING	V		~	
-	ROAD APPROACHES			11	
	Romb Miritonenies	-		V	-
IFIED MAI	INTENANCE				
QUANT.	COMMENTS			WIP 1	D#
	QUANT.	QUANT. COMMENTS	QUANT. COMMENTS	QUANT. COMMENTS	QUANT. COMMENTS WIP I

INSPECTED BY:

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STRUCTURE NAME:

Kamloops East Red

STRUCTURE NUMBER:

2487

SCHEDULED DATE:

2nd Week June

DATE INSPECTED:

may14/1

N/A	G	F	P
		-	
	1.13		-
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1			
	N/A	N/A G	N/A G F

	NI/A	G	F	P
Contraction of the second second	IN/A	9	1	
PINS/BOLT/RIVETS				
CROSS TIES	1			
DECK SLAB				
WEARING SURFACE		1.13		
DECK JOINT				
CURB/WHEELGUARD				
SIDEWALK				
FENCE/POST/RAILING				
DRAINS				
UTILITIES				
PAINT - RAIL/STRUCTURE				
SIGNING/LIGHTING				1
ROAD APPROACHES				

COMMENTS

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IDENTIFIED MAINTENANCE

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
INCRECTED BY	N	SIGNATU	IDE	22

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ADC
ARGO
/Road Maintenance (Thampson) Inc.

STRUCTURE NAME:

Kamloops East Red STRUCTURE NUMBER: 2487

SCHEDULED DATE:

3rd Week May

DATE INSPECTED: may 22/12

	N/A	G	F	Р
DEBRIS RISK		V		
BANK/BED SCOUR		V		
FOUNDATION			1	
ABUTMENT/SILLS		LU,	V	
WING/RETAIN WALLS			1	
PIER FOOTING/PILING			1	
DOLPHIN/FENDER		1	1	
BEARING/CAP/CORBELL		[1]	V	1
FLR BEAM/ STRINGERS			V	
FRAMES/PORTELS		11	V	
TRUSS CHORDS			V	
TRUSS DIAGONALS			~	_
TRUSS RODS			/	
PANELS	2	1		1

	6	1		
	N/A	G	F	P
PINS/BOLT/RIVETS		i ni	N	-
CROSS TIES			/	
DECK SLAB	/			
WEARING SURFACE				1
DECK JOINT	-			
CURB/WHEELGUARD			1	
SIDEWALK		11.5	/	-
FENCE/POST/RAILING	1		1	
DRAINS	1			
UTILITIES	V			1
PAINT - RAIL/STRUCTURE			1	
SIGNING/LIGHTING	-		1-1	
ROAD APPROACHES			/	

COMMENTS

IDENTIFIED MAINTENANCE

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
		TT		
				d
INSPECTED BY:	\$22	SIGNATU	IRE 22	

Road Maintenance (Thompson) Inc.									
STRUCTURE NAME:		Kaml	oops	East Red	STRUCTURE NUMBER:		24	487	
SCHEDULED DATE:		1 st	Wee	ek July	DATE INSPECTED:	Ju	1c.y	18/12	
	N/A	G	F	P		N/A	G	F	IP
DEBRIS RISK		1	1	1pm	PINS/BOLT/RIVETS	1 11/1	1	-	1
BANK/BED SCOUR		1			CROSS TIES		1		-
FOUNDATION		1			DECK SLAB			1	
ABUTMENT/SILLS		1			WEARING SURFACE		1	1	1
WING/RETAIN WALLS		1			DECK JOINT	1			
PIER FOOTING/PILING		1			CURB/WHEELGUARD		1	1	
DOLPHIN/FENDER	WE	1	-		SIDEWALK		1		
BEARING/CAP/CORBELL		1			FENCE/POST/RAILING		~		
FLR BEAM/ STRINGERS		1			DRAINS	1			
FRAMES/PORTELS		1			UTILITIES				
TRUSS CHORDS		1			PAINT - RAIL/STRUCTURE		1		
TRUSS DIAGONALS		1			SIGNING/LIGHTING		1	1	
TRUSS RODS		1			ROAD APPROACHES		1		
PANELS		1							-
COMMENTS	_								
		_							

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
INSPECTED BY:	Bridge Forema	an SIGNATL	IRE_H ttt	
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TRA 2013 00303 Page 40 ARM 7007

ARGO		[-							
STRUCTURE NAME:	}	Kamlo	oops	East	Red	_ STRUCTURE NUMBER:	2487			
SCHEDULED DATE:		4 th	Wee	ek Ju	ly	DATE INSPECTED:	JU	LX	2.51	1/2
	N/A	G	F	P	1		N/A	G	F	P
DEBRIS RISK		V				PINS/BOLT/RIVETS		/		
BANK/BED SCOUR		1	1			CROSS TIES		V		
FOUNDATION		/				DECK SLAB			1	
ABUTMENT/SILLS		V,				WEARING SURFACE			1	1
WING/RETAIN WALLS		1,		1	1	DECK JOINT	1			
PIER FOOTING/PILING		1				CURB/WHEELGUARD		/		
DOLPHIN/FENDER		1		·		SIDEWALK		1		
BEARING/CAP/CORBELL		1				FENCE/POST/RAILING	1.1.1	1		
FLR BEAM/ STRINGERS		/			/	DRAINS	1			
FRAMES/PORTELS		1			V	UTILITIES		1		
TRUSS CHORDS		1	-	1		PAINT - RAIL/STRUCTURE		/		
TRUSS DIAGONALS		/		1		SIGNING/LIGHTING		1		
TRUSS RODS		1		/		ROAD APPROACHES		/		
PANELS		/	V	1						-
PANELS COMMENTS]					

IDENTIFIED MAINTENANCE

PRIORITY	QUANT.	COMMENTS	WIP ID #
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Bridge Forema	an_SIGNATU	RE 100 for	
	Bridge Forema	PRIORITY QUANT.	PRIORITY QUANT. COMMENTS Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress Image: Comment stress

ARGO Road Maintenance (Thempson) Inc.	BRIDGE INSPECTION REPO						_		_	
STRUCTURE NAME:		Kamlo	oops	East Red	STRUCTURE NUMBER	2487				
SCHEDULED DATE:		3rd V	Veek	August	DATE INSPECTED:	AVE		22	22/1	
	N/A	G	F	P		N/A	G	F	P	
DEBRIS RISK		/			PINS/BOLT/RIVETS		1			
BANK/BED SCOUR		1			CROSS TIES		1			
FOUNDATION		1	11		DECK SLAB			1		
BUTMENT/SILLS	1	V	1		WEARING SURFACE			1		
VING/RETAIN WALLS		1			DECK JOINT	1				
IER FOOTING/PILING		1			CURB/WHEELGUARD		1		- C. 2	
OLPHIN/FENDER		/			SIDEWALK		1		-	
EARING/CAP/CORBELL		1			FENCE/POST/RAILING		V		1	
LR BEAM/ STRINGERS	1	1		· · · · ·	DRAINS	1	·			
RAMES/PORTELS					UTILITIES		1			
RUSS CHORDS		/			PAINT - RAIL/STRUCTURE		1			
RUSS DIAGONALS		1			SIGNING/LIGHTING		1			
RUSS RODS		1			ROAD APPROACHES		1			
ANELS		1								
OMMENTS										
		ID	ENT	IFIED M	AINTENANCE					
CTIVITY	PR	IORI'	(Y	QUANT	. COMMENTS			WIP	ID #	
and the second second	-		_		-				-	

ACTIVITY PRIORITY QUANT. COMMENTS WIP ID #

Road Maintenance (Thompson) Inc.	_			BR	IDGE INSPECTION REPORT				
STRUCTURE NAME:	ł	Kamlo	ops I	East Red	STRUCTURE NUMBER:		24	87	
SCHEDULED DATE:	2n	d We	ek S	eptembe	DATE INSPECTED:				
	N/A	G	F	P		N/A	G	F	Ρ
DEBRIS RISK		~			PINS/BOLT/RIVETS	1	/		
ANK/BED SCOUR		4			CROSS TIES	1	/		
OUNDATION		/			DECK SLAB	1		1	-
BUTMENT/SILLS		/			WEARING SURFACE			/	
WING/RETAIN WALLS	/				DECK JOINT	1			_
YIER FOOTING/PILING		/			CURB/WHEELGUARD			1	-
OOLPHIN/FENDER		/			SIDEWALK	1.0	/		
BEARING/CAP/CORBELL		~		1.11	FENCE/POST/RAILING		/	1	
LR BEAM/ STRINGERS		/			DRAINS	/			
FRAMES/PORTELS		/			UTILITIES	/			
RUSS CHORDS		/			PAINT - RAIL/STRUCTURE		/		
RUSS DIAGONALS		/			SIGNING/LIGHTING		/		
TRUSS RODS		/			ROAD APPROACHES		/		-
WHEELGUARD	SCR	CC AP	5.2	BUT	occ		10	1ºIL	
		II	ENT	TIFIED M	IAINTENANCE				
ACTIVITY	PR	II	DENI TY	TIFIED M	IAINTENANCE T. COMMENTS			WIP	ID #
ACTIVITY	PR	II IORI	DENT	QUAN	T. COMMENTS	~6		WIP	ID #
ACTIVITY	PR	II IORI 19	DENT	QUAN	IAINTENANCE T. COMMENTS	15		WIP	ID #
ACTIVITY 100 R 100 C 510 A	PR	II IORI 19 17	DENT	QUAN	AINTENANCE T. COMMENTS 4 CRACK SEALL 2 DUCLODE IN WASHE	VE P	RCE;	WIP	ID #
ACTIVITY Ine R Leo C Sic A		110 110 11 17 17 17	DENT	QUAN	IAINTENANCE T. COMMENTS 4 CRACK SEALE 7 ² INCLODE IN WASHE	VE BEP	RCE;	WIP	ID #

INSPECTED BY:

Bridge Foreman SIGNATURE

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TRA 2013 00303 Page 44

STRUCTURE NAME:		Kamloops East Red		East Red	STRUCTURE NUMBER:	2487			
SCHEDULED DATE:	-	1 st W	/eek	October	DATE INSPECTED:	octiliz			
	N/A	G	GFP			N/A	G	F	P
DEBRIS RISK		~			PINS/BOLT/RIVETS		1	1	
BANK/BED SCOUR		2			CROSS TIES		1		
FOUNDATION		1			DECK SLAB			1	
ABUTMENT/SILLS		/			WEARING SURFACE			1	
WING/RETAIN WALLS	1				DECK JOINT		1		
PIER FOOTING/PILING		1			CURB/WHEELGUARD		1	· · · · · · · · · · · · · · · · · · ·	
DOLPHIN/FENDER		1	(SIDEWALK	1.1	/		
BEARING/CAP/CORBELL		1	1		FENCE/POST/RAILING	1		1	
FLR BEAM/ STRINGERS		2			DRAINS	1			
FRAMES/PORTELS		1			UTILITIES	1			
TRUSS CHORDS		2			PAINT - RAIL/STRUCTURE		\sim		
TRUSS DIAGONALS		1			SIGNING/LIGHTING		0		
TRUGG DODG		/			ROAD APPROACHES		/	<u></u>	
TRUSS RODS									

IDENTIFIED MAINTENANCE

Bridge Foreman SIGNATURE

ARGO Road Malatenance (Domoson) Inc.				BRI	DGE INSPECTION REPORT				
STRUCTURE NAME:		Kamlo	oops	East Red	STRUCTURE NUMBER:		24	487	
SCHEDULED DATE:		1 st W	leek	October	DATE INSPECTED:	000.1/12			
	N/A	G	F	P		N/A	G	F	P
DEBRIS RISK	1	1			PINS/BOLT/RIVETS		1		
BANK/BED SCOUR		1			CROSS TIES		1		
FOUNDATION		1			DECK SLAB			1	
ABUTMENT/SILLS		/	1.00		WEARING SURFACE	1 m m	200	1	
WING/RETAIN WALLS	1	2.00	1		DECK JOINT		/		1
PIER FOOTING/PILING	1 - 1	1	TET		CURB/WHEELGUARD		1		
DOLPHIN/FENDER		~	1		SIDEWALK		/		1
BEARING/CAP/CORBELL		1	1		FENCE/POST/RAILING			1	0
FLR BEAM/ STRINGERS		~			DRAINS	~			
RAMES/PORTELS		/			UTILITIES	1			11
TRUSS CHORDS		1	1		PAINT - RAIL/STRUCTURE	01.0	1		1
TRUSS DIAGONALS		/	-		SIGNING/LIGHTING	-	~		-
TRUSS RODS		/			ROAD APPROACHES		/		
PANELS		/	2.11						
COMMENTS i POTNO	0	NP	sano	ne Deck	(MULTIPLE LOOSE OR MISS	INC (4	i on	
				s2					
4				Ň					
		ID	ENT	IFIED MA	INTENANCE				
ACTIVITY	PR	IORIT	Y	QUANT.	COMMENTS			WIP	D#
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							_		

INSPECTED BY:	Bridge Foreman		OP	~	
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Revision #3		May 6 2004		VI	TRA 2013 00303 Pag 4 RM 7007

Road MaIntenance (Thompson) Inc.	-		-	[
STRUCTURE NAME:		Kamlo	oops	East Red	STRUCTURE NUMBER:	2487				
SCHEDULED DATE:		4 th W	/eek	October	DATE INSPECTED:	OCT. 16/12				
	N/A	G	F	P		N/A	G	F	P	
DEBRIS RISK		1	19		PINS/BOLT/RIVETS		1	12		
BANK/BED SCOUR		~	0		CROSS TIES	i i aci	/			
FOUNDATION		~			DECK SLAB		1	/		
ABUTMENT/SILLS		1	2 1 2		WEARING SURFACE	1.50		/	0	
WING/RETAIN WALLS	1		1.000	1273	DECK JOINT		1		1000	
PIER FOOTING/PILING		1	1.00		CURB/WHEELGUARD		1	1	1	
DOLPHIN/FENDER		1			SIDEWALK		/	1		
BEARING/CAP/CORBELL		1	1	2	FENCE/POST/RAILING			/	1.0.0	
FLR BEAM/ STRINGERS		1			DRAINS	/				
FRAMES/PORTELS		1	1 - H		UTILITIES	1	1			
TRUSS CHORDS		/	123		PAINT - RAIL/STRUCTURE		1	1-1		
TRUSS DIAGONALS		/			SIGNING/LIGHTING		/	1	-	
TRUSS RODS	11	/			ROAD APPROACHES		1	1		
COMMENTS GOOD DU	ISLAL	- 60	SND	TION , B	OLTS HANG BEEN TICHTONE	<u>0</u> s	NNL6	PRE	ULOUS	
	2	ID	ENT	IFIED M	AINTENANCE					
ACTIVITY	PR	IORI	ΓY	QUANT	C. COMMENTS	_		WIP	ID #	
	-		-			_				

INSPECTED BY:

Bridge Foreman SIGNATURE



IDENTIFIED MAINTENANCE

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
Soom.	forð,	9 m2	2×942.×16' planks.	
			A	+()
INSPECTED BY:	Bridge Forem	an SIGNAT		V

Ken Friesen



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STRUCTURE NAME:

Kamloops East Red

STRUCTURE NUMBER:

2487

SCHEDULED DATE:

2nd Week December

DATE INSPECTED:

	N/A	G	F	P
DEBRIS RISK		1		
BANK/BED SCOUR		/		
FOUNDATION		1		
ABUTMENT/SILLS		/		
WING/RETAIN WALLS		1.00	1	
PIER FOOTING/PILING		1		
DOLPHIN/FENDER		1		
BEARING/CAP/CORBELL		/		
FLR BEAM/ STRINGERS		1		
FRAMES/PORTELS	1.0	/		S
TRUSS CHORDS		11		
TRUSS DIAGONALS	1	1		
TRUSS RODS		1		
PANELS	1			

	N/A	G	F	Р
PINS/BOLT/RIVETS		1	1	
CROSS TIES		/		
DECK SLAB		1	1	
WEARING SURFACE	1		/	
DECK JOINT	/	200		
CURB/WHEELGUARD		1		
SIDEWALK		1		
FENCE/POST/RAILING	1	1		
DRAINS	1		1	
UTILITIES	1			
PAINT - RAIL/STRUCTURE		1		1.1
SIGNING/LIGHTING		1		
ROAD APPROACHES		1		

MID SPAN. SiDewalk Miling 2'X6' is Broken Deck is loose. CAUSING ASAHAIT TO Blow OUT COMMENTS DOWN STIEAM B TIONS OF LAMINATED DECK is er NewA 1NG Ame

IDENTIFIED MAINTENANCE

ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
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690 B	High	lim	Broken Mil Fixed	
INSPECTED BY:	Bridge Forem	an_SIGNAT	URE	

TRA 2013 00303 Page 50 ARM 7007

	Kamloops East Red STRUCTURE NUMBER:	: November DATE INSPECTED: M2	NA G F P	PINS/BOLT/RIVETS	CROSS TIES	C DECK SLAB	WEARING SURFACE	C DECK JOINT	CURB/WHEELGUARD	SIDEWALK	C DRAINS		PAINT - RAIL/STRUCTURE	Signing/LighTing	LCI L RUAD APPROACHES L	N/A Year	Any patholes in surface
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STRUCTURE NAME: SCHEDULED DATE:				
SCHEDULED DATE:	Kamloop	s East Red	STRUCTURE NUMBER	2487
	3 rd Weel	< February	DATE INSPECTED:	Fed 26/09
	N/A G F	Ы		NALGIELD
DEBRIS RISK	1		PINS/BOLT/RIVETS	
BANK/BED SCOUR	1		CROSS TIES	7
FOUNDATION	2		DECK SLAB	5
ABUTMENT/SILLS	2		WEARING SURFACE	1
WING/RETAIN WALLS	7		DECK JOINT	7
PIER FOOTING/PILING	7		CURB/WHEELGUARD	2
DOLPHIN/FENDER	2		SIDEWALK	7
BEARING/CAP/CORBELL	7		FENCE/POST/RAILING	2
TLR BEAM/ STRINGERS	2		DRAINS	11
RAMES/PORTELS	2		UTILITIES	2
rruss chords	2		PAINT - RAIL/STRUCTURE	11
TRUSS DIAGONALS	2		SIGNING/LIGHTING	1
TRUSS RODS	7		ROAD APPROACHES	2
ANELS	N			
need replay	Qn		1	
	IDEN	TIFLED MAR	VTENANCE	
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2487 STRUCTURE NAME: Kamloops East Red STRUCTURE NUMBER:

DATE INSPECTED: 3rd Week May SCHEDULED DATE: C F P

Leve 4/09

	N/A	G F	Р		N/A
DEBRIS RISK		5		PINS/BOLT/RIVETS	
BANK/BED SCOUR		2		CROSS TIES.	
FOUNDATION		2		DECK SLAB	7
ABUTMENT/SILLS		5		WEARING SURFACE	
WING/RETAIN WALLS		14		DECK JOINT	7
PIER FOOTING/PILING		1		CURB/WHEELGUARD	
DOLPHIN/FENDER		2		SIDEWALK	
BEARING/CAP/CORBELL		2		FENCE/POST/RAILING	
FLR BEAM/ STRINGERS		2		DRAINS	2
FRAMES/PORTELS		2		UTILITIES	5
TRUSS CHORDS		1		PAINT - RAIL/STRUCTURE	
TRUSS DIAGONALS		7		DNITHOLINGNINDIS	
TRUSS RODS		2		ROAD APPROACHES	
PANELS	7				
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ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
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May 6, 2004

Revision #3

INSPECTED BT:

STRUCTURE NAME Kamoops East Red STRUCTURE NUMBER: 2487 SCHEDULED DATE: 2" Week June DATE INSFECTED: July (J) SCHEDULED DATE: 2" Week June DATE INSFECTED: July (J) SCHEDULED DATE: 2" Week June DATE INSFECTED: July (J) STRUCTURE NUMBER: 2" Week June DATE INSFECTED: July (J) BISK RISK MIKEN PRISBOLTARVERS July (J) BISK RISK PRISBOLTARVERS PRISBOLTARVERS July (J) DUIDATION PRISPORTIS PRISPORTIS July (J)					
SCHEDULED DATE: 2nd Week June DATE INSPECTED: Junt 404 Birks risks Image of the product o	STRUCTURE NAME:	Kamloo	ps East Red	STRUCTURE NUMBER:	2487
Image: Section of the section of t	SCHEDULED DATE:	2 nd W	leek June	DATE INSPECTED:	Jun 4/09
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STRUCTURE NAME: Kamloops East Red STRUCTURE NUMBER:

SCHEDULED DATE: 4th Week July DATE INSPECTED:

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May 6, 2004

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STRUCTURE NUMBER; 2487 Kamloops East Red STRUCTURE NAME:

DATE INSPECTED; 1st Week July SCHEDULED DATE:

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(DATION	2		DECK SLAB
MENT/SILLS	5		WEARING SURPACE
WRETAIN WALLS	2		DECK JOINT
FOOTING/PILING	2		CURR/WHERL GUADD
HIN/FENDER	11		SIDEWALK
ING/CAP/CORBELL	2		FENCE/POST/BAILING
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S CHORDS	2		PAINT - PAIN (STRITCHIN
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Kamloops East Red STRUCTURE NUMBER: STRUCTURE NAME:

DATE INSPECTED: 3rd Week August SCHEDULED DATE:

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EBRIS RISK		2	1	PINS/BOLT/RIVETS
ANK/BED SCOUR		7		CROSS TIES
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BUTMENT/SILLS		3		WEARING SURFACE
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R BEAM/ STRINGERS		7		DRAINS
AMES/PORTELS		2		UTTI ITTI
USS CHORDS		2	1	PAINT - RAIL/STRUTCH
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			A PLANTING A	WILL ID #
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100%	prod	1000 m2	HA NOUND	
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			to the second	
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Revision #3

May 6, 2004

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Supt 8/10 STRUCTURE NAME: Kamloops East Red STRUCTURE NUMBER: 2487 DATE INSPECTED: 2nd Week September SCHEDULED DATE:

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DEBRIS RISK		2			PINS/BOLT/RIVET
BANK/BED SCOUR)			CROSS TIES
FOUNDATION					DECK SLAB
ABUTMENT/SILLS		7			WEARING SURFA
WING/RETAIN WALLS		1			DECK JOINT
PIER FOOTING/PILING		1			CURB/WHEELGU/
DOLPHIN/FENDER		1			SIDEWALK
BEARING/CAP/CORBELL			1		FENCE/POST/RAII
FLR BEAM/ STRINGERS		1	1		DRAINS
FRAMES/PORTELS		7			UTILITIES
TRUSS CHORDS		1			PAINT - RAIL/STR
TRUSS DIAGONALS		7			SIGNING/LIGHTIN
TRUSS RODS		2			ROAD APPROACE
PANELS	1		i.		

WEARING SURFACE	7
DECK JOINT	1
CURB/WHEELGUARD	1
SIDEWALK	1
FENCE/POST/RAILING	2
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UTILITIES	2
PAINT - RAIL/STRUCTURE	2
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ROAD APPROACHES	1

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ACTIVITY	PRIORITY	QUANT.	COMMENTS	WIP ID #
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INSPECTED BY:		SIGNATI	JREs22	1

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May 6, 2004

STRUCTURE NAME: Kamloops East Red STRUCTURE NUMBER: 2487 SCHEDULED DATE: 31 ^d Week August DATE INSPECTED: 2487 SCHEDULED DATE: 31 ^d Week August DATE INSPECTED: 2487 SCHEDULED DATE: 31 ^d Week August DATE INSPECTED: 2487 SCHEDULED DATE: 31 ^d Week August DATE INSPECTED: 2487 SCHEDULED DATE: 31 ^d Week August DATE INSPECTED: 2487 SIDENALIS NIA G F P PINSIBOLT/INTVERS 2487 AUKIBED SCOUR NIA G F P PINSIBOLT/INTVERS 2487 AUKIBED SCOUR NIA G F P PINSIBOLT/INTVERS 2487 BUTMENYISHIDER NIA G F P PINSIBOLT/INTVERS 2487 BUTMENYISHIDER LINERDER NIA G F P PINSIBOLT/INTVERS AUKIRENDER LE ROOTINGPILING LINERDER NIA G F P AMESPORTELS LE BEAM STRINGERS UTULTTES NIA G F P AMESPORTELS LE BEAM STRINGERS UTULTTES NIA G F P AMESPORTELS LE BEAM STRINGERS UTULTTES NIA G F P AMESPORTELS LE BEAM STRINGERS UTULTTES NIA G F P AMESPORTELS AMESPORTELS LE BEAM STRINGERS LE AMASTRINGERS AMESPORTELS	STRUCTURE NAME: Kanloops East Red STRUCTURE NUMBER: 2487 SCHEDULED DATE: 3rd Week August DATE INSPECTED: Margen: Marken: Nad G F P P P P Normertan: Nad F P </th <th>STRUCTURE NAME: Kamlo SCHEDULED DATE: 3rd <u>W</u></th> <th></th> <th></th> <th></th>	STRUCTURE NAME: Kamlo SCHEDULED DATE: 3 rd <u>W</u>			
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May 6, 2004

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BRIDGE INSPECTION REPORT

2487 STRUCTURE NUMBER: Kamloops East Red STRUCTURE NAME:

Oct DATE INSPECTED: 1st Week October SCHEDULED DATE:

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Revision #3

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Revision #3

May 6, 2004

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STRUCTURE NUMBER: 2487 Kamloops East Red STRUCTURE NAME:

DATE INSPECTED: 4th week January SCHEDULED DATE:

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WING/RETAIN WALLS		1			DECK JOINT
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DOLPHIN/FENDER		1			SIDEWALK
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May 6, 2004

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Reo	UCTURE NAME: Kamloops	IEDULED DATE: 1 st week	NA G F	RISK	BED SCOUR	ENT/SILLS	ETAIN WALLS	OTING/PILING	IN/FENDER IG/CAP/CORBELL	AM/ STRINGERS	S/PORTELS	CHORDS	RODS	S	enfore deteunated	ITY PRIORITY	1001 and	CTED BY:	

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De 29/11 2487 STRUCTURE NUMBER: DATE INSPECTED: Kamloops East Red 1st week January STRUCTURE NAME: SCHEDULED DATE:

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PAINT - RAIL/STRUCTURE FENCE/POST/RAILING CURB/WHEELGUARD ROAD APPROACHES WEARING SURFACE PINS/BOLT/RUVETS SIGNING/LIGHTING DECK SLAB CROSS TIES DECK JOINT SIDEWALK UTILITIES DRAINS ۵. iL. N/A G BEARING/CAP/CORBELL FLR BEAM/ STRINGERS WING/RETAIN WALLS PIER FOOTING/PILING **FRUSS DIAGONALS** BANK/BED SCOUR ABUTMENT/SILLS FRAMES/PORTELS DOLPHIN/FENDER TRUSS CHORDS FOUNDATION DEBRIS RISK **FRUSS RODS** PANELS

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STRUCTURE NUMBER: Kamloops East Red STRUCTURE NAME:

Rec DATE INSPECTED: 2nd Week December SCHEDULED DATE:

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TRUSS DIAGONALS	1			SIGNING/LIGHTING
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Revision #3

ARM 7007

STRUCTURE NAME: Famoops East Red STRUCTURE NAME: Z487 Z487 Z487	ARGO Provincement (Interpretion		BRID	GE INSPECTION REPORT		
SCHEDULED DATE: 4" Week Januay DATE INSPECTED: Multicle DATE: F P F F F F F F F F F F F F F F F F F F F F F F F F F	STRUCTURE NAME:	Kamloops E	ast Red	_ STRUCTURE NUMBER:	24	187
Image: Display and the image of the imag	SCHEDULED DATE:	1 st Week J	anuary	DATE INSPECTED:	MA	18/1
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FRAMES/PORTELS UTLUTHES TRUSS CHORDS Image: Chords TRUSS DIAGONALS Image: Chords TRUSS RODS Image: Chords PANELS Image: Chords COMMENTS Image: Chords Continue Image: Chords Condition Image: Chords Condition Image: Chords Con	FLR BEAM/ STRINGERS	1	-	DRAINS	/	
TRUSS CHORDS MINT-RALL/STRUCTURE MAINT-RALL/STRUCTURE TRUSS DIAGONALS TRUSS DIAGONALS TRUSS RODS TRUSS RODS PANELS ROAD APPROACHES PANELS APPROACHES COMMENTS ROAD APPROACHES	FRAMES/PORTELS	111		UTILITIES	1	
TRUSS DIAGONALS TRUSS RODS PANELS COMMENTS	TRUSS CHORDS	1		PAINT - RAIL/STRUCTURE	1	
TRUSS RODS PANELS COMMENTS COM	TRUSS DIAGONALS	1	1	SIGNING/LIGHTING	1	
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Revision #3

May 6, 2004

ARM 7007

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STRUCTURE NAME: Kamloops East Red STRUCTURE NUMBER; 2487

SCHEDULED DATE: 4th Week January DATE INSPECTED: 5AM 25/13

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DEBRIS RISK	1	1			PINS/BO
BANK/BED SCOUR		/			CROSS T
FOUNDATION		1	1		DECK SI
ABUTMENT/SILLS		1			WFARIN
WING/RETAIN WALLS		1			DECK IO
PIER FOOTING/PILING		1			CURRAW
DOLPHIN/FENDER		1			SIDEWA
BEARING/CAP/CORBELL		1			EENCE/P
FLR BEAM/ STRINGERS		1			DRAINS
FRAMES/PORTELS	l	5			LITH PTIE
TRUSS CHORDS		1		T	PAINT -
TRUSS DIAGONALS				T	SIGNING
TRUSS RODS				Γ	BUAD AL
PANELS	1			1	IV OTVOW

COMMENTS SECTIONS OF PANIMATED RECK LODGE CAUSINY ASPHAIT

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IDENTIFIED MAINTENANCE

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	INSPECTED BY:	Bridge Forams	CICNIATUR	the the start	

Revision #3

ARM 7007

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Kamloops East New STRUCTURE NUMBER: STRUCTURE NAME:

DATE INSPECTED; May SCHEDULED DATE:

٩.

LL.

N/A G 2

1

PINS/BOLT/RIVETS

CROSS TIES.

April 28/09

N8600

	N/A	c	u.	n .	
DEBRIS RISK		7.	1		
BANK/BED SCOUR		2			
FOUNDATION		2			
ABUTMENT/SILLS		7			
WING/RETAIN WALLS		2			
PIER FOOTING/PILING		2			
DOLPHIN/FENDER		2		Ţ	
BEARING/CAP/CORBELL		7			
FLR BEAM/ STRINGERS		7			
FRAMES/PORTELS	2		i		
TRUSS CHORDS	2				
TRUSS DIAGONALS	7		1		
PANELS	2				

CURB/WHEELGUARD FENCE/POST/RAILING

SIDEWALK

WEARING SURFACE

DECK JOINT DECK SLAB

7

2 1 77

PAINT - RAIL/STRUCTURE

UTILITIES DRAINS

SIGNING/LIGHTING ROAD APPROACHES

	NIA	Year
Deck joints need maintenance?		2012
Estimated year rails will need paint)	

	X	2			
Presunds	David Con	Prim Alm	& gouth		
Publicated	(concreth).	Some lot	North an		
I structure and	need realering	OP sundaro ?	deck nod a	1	
all all	1 Pests	Sidena	Hereath		
COMMENTS 6	Several re	apalling on	d dal	"Otisto,	

IDENTIFIED MAINTENANCE

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AMENTS	10	ARM 7007
CON	Sidewal	s22
QUANT.	2.401	SIGNATURE
PRIORITY	mid	225
ACTIVITY	Earl	INSPECTED BY: Revision #4

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Kamloops East Red STRUCTURE NUMBER: STRUCTURE NAME:

2487

Feb 7/13 3rd Week February DATE INSPECTED: SCHEDULED DATE:

N/A G F P

5

	N/A	Ø	11	۵.	
DEBRIS RISK		5			PINS/BOLT/BIVETS
BANK/BED SCOUR		1		Γ	CROSS TIRS
FOUNDATION		1			DECK SI AR
ABUTMENT/SILLS		1		Γ	WEARING STREAGE
WING/RETAIN WALLS		1			DECK TONT
PIER FOOTING/PILING		5	1	1	CURR/WHERI GIADD
DOLPHIN/FENDER		1		T	STDRWAT &
BEARING/CAP/CORBELL		5		Γ	FENCE/POST/BAILTNIC
FLR BEAM/ STRINGERS		1		Γ	DRAINS
FRAMES/PORTELS		T		1	SHITLITT
TRUSS CHORDS		1		Г	PANT - PAIL KTDUTCH
TRUSS DIAGONALS			T	1	SIGNING/ ICENTING
TRUSS RODS		1	T	1	BOAD A BBB OA CITES
PANELS	1	t	1	T	NOAD ALTAUACHES

CAUSING AS WAIT AminATER Neel 10050 der DUT. COMMENTS SECTION OF Row 19

5

IDENTIFIED MAINTENANCE

INSPECTED BY: Bridge Foreman SIGNATURE HE	ACTIVITY	PRIORITY QUANT.	COMMENTS	# CII dIM
INSPECTED BY: Bridge Foreman SIGNATURE HELL				
INSPECTED BY: Bridge Foreman SIGNATURE HU WITH				
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Revision #3

May 6, 2004

CUNT MON

ARGO	Va	IDOL INSTECTION NEFON	
STRUCTURE NAME:	Kamloops East Red	STRUCTURE NUMBER:	2487
SCHEDULED DATE:	2 nd Week March	DATE INSPECTED:	MARCH 1/13
EBRIS RISK ANK/BED SCOUR OUNDATTON BUTMENT/SILLS IBUTMENT/SILLS IER FOOTING/PELING OLPHIN/FENDER EARING/CAP/CORBELL LR BEAM/STRINGERS AMES/PORTELS AMES/PORTELS AMES/PORTELS AMES/DORTELS AMES/DORTELS AMES/DOR ANELS OMMENTS CECTIO	MAG, FP	PINS/BOLT/RIVETS CROSS TTES DECK SLAB WEARING SURFACE DECK JOINT CURB/WHEELGUARD EECK JOINT CURB/WHEELGUARD BEANINS UTL/TTES PAINS UTL/TTES PAINS UTL/TTES PAINS DRAING ROAD APPROACHES ROAD APPROACHES	NIA G F P
ATIVITY	PRIORITY QUANT	COMMENTS	WIP ID #
SPECTED BY:	Sridge Foreman SIGN	ATURE AUN THAT	
Revision #3	May 6, 2	004	ARM 7007

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION BRIDGE MANAGEMENT INFORMATION SYSTEM

Condition Inspection Report

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Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

2 Southern Interior Region	District	District: 6 Thompson Nicola District				Contract Area: 15 Thompson CA			
	District.								
FI: 15 A @ 03393 MOUNT PAUL WAY	ON		Features Cro	ossed:	MOUNT PAUL	NAY/CNR/C	NR/SOUTH THOMPS(RIVER		
Component Group/Component HYDROTECHNICAL:	E	G	F	Р	v	x	N/A		
Debris Risk		100					N		
Channel							Y		
Erosion Protection							Y		
Substructure Scour		100					N		
SUBSTRUCTURE :									
Foundation Movement		100					N		
Abutments			100				N		
Wing/Retaining Walls							Y		
Embankment							Y		
Footings/Piling		98	2				N		
Pier Columns/Walls/Cribs		95	5				N		
Bearings							Y		
Caps		95	5				N		
Corbels		100					N		
Dolphins/Fenders							Y		
SUPERSTRUCTURE :									
Floor Beams/Transoms			100				N		
5. Stringers		98	2				N		
Girders							Y		
Portals		100					N		
Bracing/Diaphragms							Y		
Truss Chords/Arch Ribs		100					N		
- Arch Ties							Y		
Truss Diagonals		80	20				N		
Truss Rods/Verticals		100					N		
Cables							Y		
Panels							Y		
Pins/Bolts/Rivets			100				N		
Camber/Sag		100					N		
Live Load Vibration			100				N		
Coating (Structure)							Y		
DECK :					1				
Sub Deck/Cross Ties		100					N		
• Wearing Surface			98	2	2	1	N		
- Deck Joints						1	Y		
Curbs/Wheelguards		95	5			1	N		
Sidewalk(s)		100				1	N		
Railings/Parapets		90	10			1	N		
Median Barrier							Y		
Urains/Pipes		100	1				ĭ N		
		100					IN		
APPROACHES :		400				1	N		
Signing/Lighting		100					N		
- Roadway Approaches		50	00		<u> </u>				
• Koadway Flares							1		
outment Position: S	Ye	ear Built:	1936 Estima	ted?	I	Length (m):	336.900		
		<u></u>	-			•			
Main Span Length: 39.600	Main Span Ty	pe: OTHE	ĸ			Spans: 4	45		
Urgency: 2 pector/Inspected By: William Glen	BCI Ratii	ng: 2.22 On 2008/	10/15	Ame	Adjusted endment/Partial	BCI Rating: 2	.26		

BRITISH COLUMBIA MINISTRY OF TRANSPORTATION BRIDGE MANAGEMENT INFORMATION SYSTEM

Condition Inspection Report

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

 Structure No: 02487
 KAMLOOPS EAST RED
 Status: Open/In Use
 Inspection Type: Routine Condition

 Region: 2
 Southern Interior Region
 District: 6
 Thompson Nicola District
 Contract Area: 15
 Thompson CA

 Urgency Notes:
 Urgency Rating Note:
 origins Rating Notes were not required prior to 1999.
 Item Notes:

 6
 Abutments
 Not Responsive

9 . Footings/Piling Repairs made to a number of piles in 2003 seem to be holding up well. There is minor surface rot at ground level, but as yet not affecting structural integrity.

10 . Pier Columns/Walls/Cribs

Not Responsive

12 . Caps

Not Responsive

15 . Floor Beams/Transoms

Not Responsive
Condition Inspection Report

4

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

Structure No: 02487 KAMLOOPS EAST RED	Status: Open/In Use	Inspection Type: Routine Condition
Region: 2 Southern Interior Region	District: 6 Thompson Nicola District	Contract Area: 15 Thompson CA

Item Notes:

16 . Stringers

Not Responsive

22 . Truss Diagonals

Not Responsive

26 . Pins/Bolts/Rivets

Not Responsive

31 . Wearing Surface The deck was extensivly cracked sealed in Sept 08 to prevent water infiltration during wet periods.

38 . Coating (Railings)

Not Responsive

Inspection Notes:

Condition Inspection Report

PAGE

4 OF

4

Structure No: 02487 KAMLOOPS EAST RED

Region: 2 Southern Interior Region

Status: Open/In Use District: 6 Thompson Nicola District Inspection Type: Routine Condition Contract Area: 15 Thompson CA

Inspection Notes: Posted Weight Restriction

4 Tonnes GVW

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

e No: 02487 KAMLOOPS EAST RED	Status: Open/In Use		se	Inspection Type: Routine Condition			
n: 2 Southern Interior Region	District: 6 Thompson Nicola District			Contract Area: 15 Thompson C/			
RFI: 15 A @ 03393 MOUNT PAUL WAY ON			Features Cr	ossed:	MOUNT PAU	JL WAY/CNR/	CNR/SOUTH THOMPS RIVER
Component Group/Component	Е	G	F	Р	v	х	N/A
Debris Risk		100					N
Channel							
Frosion Protection							
Substructure Scour		100		 			
	I	100	1	I	I	1	
		100					N
Abutmonts			100				
Wing/Potoining Wollo			100		I		
		98	2				
Pior Columns/Malla/Criba		95	5				
	<u> </u>	05	5	ı 			
Corbolo	<u> </u>	100	<u> </u>	I <u> </u>			
A Delphing/Conders	I	100	1	I	<u> </u>		
			1			I	
			400				
P. Floor Beams/Transoms		00	100				
Stringers		90	2				
		100					
Portals		100					
Bracing/Diaphragms		100					Y
J. Truss Chords/Arch Ribs		100					
Arch Ties							
2. Truss Diagonals		80	20				
P. Iruss Rods/Verticals		100					
A Cables							
			100	 			N N
Pins/Bolts/Rivets		100	100				
Camber/Sag		100	100				
			100				
Coating (Structure)							
DECK :			1				I
J. Sub Deck/Cross Ties		100					
Wearing Surface	I		98	2	<u> </u>		
2. Deck Joints			-				
5. Curbs/Wheelguards		95	5				
+. Sidewalk(s)		100					
Railings/Parapets		90	10				
Median Barrier							
0. Drains/Pipes		105					
5. Coating (Railings)		100					N
APPROACHES :			1	I			1
9. Signing/Lighting		100					N
0. Roadway Approaches		50	50				N
I. Roadway Flares							Y
outment Position: S	Yea	r Built:	1936 Estima	ted?		Length (m):	336.900
Main Span Length: 39.600 Main	Span Type	OTHE	R			Spans:	45
Urgency: 2	BCI Rating	: 2.22			Adjust	ed BCI Rating:	2.26
spector/Inspected By: William Glen	Or	1 2009/1	1/12	Ame	endment/Part	ial Inspection?	•

Condition Inspection Report

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y 4

Structure No: 02487 KAMLOOPS EAST RED Status: Open/In Use Inspection Type: Routine Condition Region: 2 Southern Interior Region District: 6 Thompson Nicola District Contract Area: 15 Thompson CA Urgency Notes: Urgency Rating Note: origins Rating Notes were not required prior to 1999. Item Notes: 6. Abutments Not Responsive Nov. 09 Condition as described remains unchanged, but progressive, rot continues to deteriorate both walls. 9. Footings/Piling Repairs made to a number of piles in 2003 seem to be holding up well. There is minor surface rot at ground level, but as yet not affecting structural integrity.

10 . Pier Columns/Walls/Cribs

Not Responsive

12 . Caps

Not Responsive

15 . Floor Beams/Transoms

Condition Inspection Report

4

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

Structure No: 02487 KAMLOOPS EAST RED Region: 2 Southern Interior Region	Status: Open/In Use District: 6 Thompson Nicola District	Inspection Type: Routine Condition Contract Area: 15 Thompson CA
Item Notes:		
16 . Stringers	Not Responsive	
22 . Truss Diagonals		
	Not Responsive	
ov. As abo	ove.	

26 . Pins/Bolts/Rivets Not Responsive

31 . Wearing Surface The deck was extensivly cracked sealed in Sept 08 to prevent water infiltration during wet periods.

38 . Coating (Railings)

Condition Inspection Report

Structure No: 02487 KAMLOOPS EAST RED

Region: 2 Southern Interior Region

Status: Open/In Use District: 6 Thompson Nicola District Inspection Type: Routine Condition Contract Area: 15 Thompson CA

Inspection Notes:

Posted Weight Restriction 4 Tonnes GVW 4

Condition Inspection Report

s15

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

G 100 100 100 100 100 98	Features C F IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	P	MOUNT PAI V	x	CNR/SOUTH THOMPS RIVER N/A
G 100 100 100 	Features C	rossed: P 	MOUNT PAI	UL WAY/CNR/	CNR/SOUTH THOMPS RIVER N/A
G 100 100 100 100 100 98	F	P	v 	X	N/A
100 100 100 100 100 98	 100				I
100 100 100 100 100 98		 			I N I
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100 100 					Y
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		<u> </u>			Y
100		<u> </u>			N
		<u> </u>			Y
100					N
					Y
80	20				N
100					N
					Y
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	100	<u> </u>			N
100					N
	100	<u> </u>			N
					Y
100					N
	98	2	2		N
					Y
95	5				N
100					N
90	10				N
					Y
					Y
100					N
100					N
75	25				N
					Y
Year Buil	: 1936 Estima	ated?		Length (m)	336,900
I GEN LIUN		ui		Longui (III).	000.000
. car Ball					
	ED			Snane	45
n Type: OTH	ER		Adiust	Spans:	45
	100 100 100 100 100 100 100 95 100 95 100 90 100 100 100 75 100	100 100 100 80 20 100 100 100 100 100 100 100 100 100 100 100 95 95 100 99 100 100 90 100 75 25 Year Built: 1936 Estimation	100 100 100 100 80 20 100 100 100 100 100 100 100 100 100 98 95 5 100 98 99 10 100 100 97 5 100 100 97 5 100 100 90 10 97 5 100 100 75 25 100 1936 Year Built: 1936	100 100 100 100 80 20 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 95 5 100 100 99 10 100 100 100 100 75 25 100 1936 Estimated?	100 100 100 100 80 20 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 95 5 100 100 90 10 100 100 100 100 100 100 75 25 100 100 75 25 100 100 75 25 100 100 75 25 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100

Condition Inspection Report

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y 4

Structure No: 02487 KAMLOOPS EAST RED Inspection Type: Routine Condition Status: Open/In Use Region: 2 Southern Interior Region District: 6 Thompson Nicola District Contract Area: 15 Thompson CA **Urgency Notes:** Urgency Rating Note: origins Rating Notes were not required prior to 1999. Item Notes: 6. Abutments Not Responsive ``ov. ^ ^ Condition as described remains unchanged, but progressive, rot continues to deteriorate both walls. 9. Footings/Piling Repairs made to a number of piles in 2003 seem to be holding up well. There is minor surface rot at ground level, but as yet not affecting structural integrity.

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Not Responsive

12 . Caps

Not Responsive

15 . Floor Beams/Transoms

Condition Inspection Report

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Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

Structure No: 02487 KAMLOOPS EAST RED	487 KAMLOOPS EAST RED Status: Open/In Use		
Region: 2 Southern Interior Region	District: 6 Thompson Nicola District	Contract Area: 15 Thompson CA	
Item Notes:			
16 . Stringers			

Not Responsive

22 . Truss Diagonals

Not Responsive

ov. As above.

26 . Pins/Bolts/Rivets

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31 . Wearing Surface The deck was extensivly cracked sealed in Sept 08 to prevent water infiltration during wet periods.

38 . Coating (Railings)

4

Criteria: Structure No = 02487 - Include Inspection Condition Photos = Y - Include Additional Blank Lines for Notes = Y - Show Not Applicable Components = Y

Structure No: 02487 KAMLOOPS EAST RED

Region: 2 Southern Interior Region

Status: Open/In Use District: 6 Thompson Nicola District Inspection Type: Routine Condition Contract Area: 15 Thompson CA

Inspection Notes: Posted Weight Restriction

4 Tonnes GVW

Criteria: Structure No = 02487 - Include Inspection Condition Photos = N - Include Additional Blank Lines for Notes = N - Show Not Applicable Components = N

ture No	02487 KAMLOOPS EAST F	RED	Status:	Open/In U	en/In Use Inspection Type: Routine Co			ine Conditio			
ion: 2 Southern Interior Region			District:	District: 6 Thompson Nicola District				Contract Area: 15 Thompson C			
RFI: 15 A @ 03393 MOUNT PAUL WAY		LWAY ON	I		Features Cros	ssed:	MOUNT PAUL	WAY/CNR/	CNR/SOU		
	Component Group/Compone	nt	-	6	F	Б	V	v	RIVE		
		<u></u>	E	G	r	P	v	~	N/A		
1.				100					N		
4.				100					N		
		I	I	100	1 1			1			
5				100					N		
5. 6	Foundation Movement			100	100						
0.	Abutments			0.0	100						
9. 10	Footings/Piling			90	Z						
10.	Pier Columns/Walls/Cribs			95	5			1			
12.	Caps		I	95	5						
13.	Corbels			100					N		
	SUPERSTRUCTURE :				1				,		
15.	Floor Beams/Transoms				100						
16.	Stringers			98	2				N		
18.	Portals			100					<u>N</u>		
20.	Truss Chords/Arch Ribs			100					N		
22.	Truss Diagonals			80	20				<u>N</u>		
23.	Truss Rods/Verticals			100					N		
26.	Pins/Bolts/Rivets				100				<u>N</u>		
27.	Camber/Sag			100					N		
28.	Live Load Vibration				100				N		
l	DECK :										
30.	Sub Deck/Cross Ties			100					N		
31.	Wearing Surface				98	2			N		
33.	Curbs/Wheelguards			95	5				N		
34.	Sidewalk(s)			100					N		
35.	Railings/Parapets			89	10	1			N		
38.	Coating (Railings)			100					N		
	APPROACHES :										
39.	Signing/Lighting			100					N		
40.	Roadway Approaches			75	25				N		
Abut	ment Position: S		Ye	ar Built:	1936 Estimate	d?		Length (m):	336.900		
te:								0 ()			
N	Main Span Length: 39.600	Maiı	n Span Tvr	e: OTHE	R			Spans:	45		
	Urgency: 2		BCI Ratir	na: 2.22			Adjusted	BCI Rating:	2.26		
Insne	ctor/Inspected By: Kent Hoda	son)n 2011/1	1/21	Δme	, ndment/Partia	I Inspection?	,		
nope	etermispected by: Rent Houg	0011		2011/1	1721	Aine		i inspection.			
ency	Notes:										
ency F	Rating Note: origins Rating No	otes were no	t required p	prior to 199	99.						
Note	es:										
6	Abutmonto										
0.	Abutments		Not Responsive								
		Nov. 09 Condition a both walls.	v. 09 ndition as described remains unchanged, but progressive, rot continues to deterior th walls.								
		Nov 2011 Ballast pos of the wall.	st on South See photo	n Abutme	nt has rotted th	nrough	at connection	. Has not effe	ect functio		
9.	Footings/Piling	Repairs made to a number of piles in 2003 seem to be holding up well. There is minor surface rot at ground level, but as vet not affecting structural integrity.									

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Criteria: Structure No = 02487 - Include Inspection Condition Photos = N - Include Additional Blank Lines for Notes = N - Show Not Applicable Components = N

Structure No	:02487 KAMLOOPS EAST	RED Status: Open/In Use	Inspection Type: Routine Condition
Region: 2	Southern Interior Region	District: 6 Thompson Nicola District	Contract Area: 15 Thompson CA
Item Notes			
	<u>.</u> Diar Calumna/Malla/Criha		
10.	Pier Columns/waiis/Cribs		
		Not Responsive	9
12	Cans		
12 .	oups		
		Nov 2011 North abutment cap and stringers move and make noi traffic (more so than other bearings). No signs of crus	se when loaded with southbound hing.
15 .	Floor Beams/Transoms		
		not responsive	
16.	Stringers		
		Nov 2011 Stringer 6 at Bent 11 and Stringer 6 at Bent 40 have po Stringer 1 at Bent 6 has possible rot.	ossible crushing cracks.
22			
22 .	Truss Diagonais	Not Responsive	
		Nov. 09 As above.	
26.	Pins/Bolts/Rivets	Not Responsive	
31 .	Wearing Surface	The deck was extensivly cracked sealed in Sept 08 to periods. Nov 2011 Deck has heavy rutting and cracking	prevent water infiltration during wet
35.	Railings/Parapets	Nov 2011 There is one broken railing post. Top rail is securely c	onnected to neighbouring posts.
38.	Coating (Railings)	Not Responsive	
Inspectior	Notes:		
Posted V	Veight Restriction		

4 Tonnes GVW

Condition Inspection Report

Criteria: Structure No = 02487 - Include Inspection Condition Photos = N - Include Additional Blank Lines for Notes = N - Show Not Applicable Components = N

ture No	0:02487 KAMLOOPS EAST	RED	Status: Open/In L	lse		Inspection	Type: Routi	ine Condition	
jion: 2	Southern Interior Region	I	District: 6 Thompson Nicola Distri		strict	ict Contract Area: 15 Thompson CA			
RFI:	15 A @ 03393 MOUNT PA	UL WAY ON		Features Cr	ossed:	MOUNT PAUL	WAY/CNR/	CNR/SOUTH THOMPSON	
	Component Group/Compor	nent	E G	F	Р	v	х	N/A	
I	HYDROTECHNICAL :			-	-	-			
1.	Debris Risk		100					N	
2.	Channel		100					N	
4.	Substructure Scour		100					N	
:	SUBSTRUCTURE :								
5.	Foundation Movement		100					N	
6.	Abutments			100				N	
9.	Footings/Piling		98	2				N	
10.	Pier Columns/Walls/Cribs		95	5				N	
12.	Caps		95	5				N	
13.	Corbels		100					N	
:	SUPERSTRUCTURE :								
15.	Floor Beams/Transoms			100				N	
16.	Stringers		98	2				N	
18.	Portals		100					N	
20.	Truss Chords/Arch Ribs		100					N	
22.	Truss Diagonals		80	20				N	
23.	Truss Rods/Verticals		100					N	
26.	Pins/Bolts/Rivets			100				N	
27.	Camber/Sag		100					N	
28.	Live Load Vibration			100				N	
I	DECK :								
30.	Sub Deck/Cross Ties		50	50				N	
31.	Wearing Surface			95	5			N	
33.	Curbs/Wheelguards		95	5				N	
34.	Sidewalk(s)		100					N	
35.	Railings/Parapets		80	10	10			N	
38.	Coating (Railings)		100					N	
4	APPROACHES :								
39.	Signing/Lighting		100					N	
40.	Roadway Approaches		75	25				N	
Abutr	ment Position: S		Year Built:	1936 Estima	ted?		Length (m):	336.900	
te:									
Ν	Main Span Length: 39.600	Main S	pan Type: OTHE	R			Spans:	45	
	Urgency: 2	B	CI Rating: 2.28			Adjusted BCI Rating: 2.36			
Inspe	ctor/Inspected By: William C	Glen	On 2012/	11/06	Ame	ndment/Partial	Inspection?		
encv	Notes:								
ancy F	Rating Note: origins Rating N	lotes were not re	auired prior to 19	aa					
Shoy I	taing note. I ongino rating i								
Note	es:								
6.	Abutments								
				Not Res	sponsive				
		Nov. 09 Condition as both walls. Nov 2011	described remai	ns unchanged	l, but pro	ogressive, rot c	ontinues to	deteriorate	
		Wing wall pos function of th	st on South Abut e wall at this tim	ment has rotte e. See photo	ed throu	gh at connectio	on.lt has not	effected the	
9.	Footings/Piling	Repairs made There is mind	e to a number of r surface rot at g	piles in 2003 s ground level, k	seem to out as ye	be holding up v et not affecting	vell. structural in	tegrity.	
							TRA 2	2013 00303 85	

Condition Inspection Report

Criteria: Structure No = 02487 - Include Inspection Condition Photos = N - Include Additional Blank Lines for Notes = N - Show Not Applicable Components = N

Structure No Region: 2	: 02487 KAMLOOPS EAST Southern Interior Region	RED Status: Open/In Use District: 6 Thompson Nicola District	Inspection Type: Routine Condition Contract Area: 15 Thompson CA
Item Notes	<u>s:</u>		
10 .	Pier Columns/Walls/Cribs		
		Not Responsive	
12.	Caps		
		Nov 2011 North abutment cap and stringers move and make nois traffic (more so than other bearings). No signs of crush Nov. 2012 Bent #7 Cap has a longitudinal split/check originating piles #2 and#1. Concern minimal, monitor.	se when loaded with southbound hing. from centre (#3) pile outward toward
15 .	Floor Beams/Transoms		
		Not Responsive	
16.	Stringers		
		Nov 2011 Stringer 6 at Bent 11 and Stringer 6 at Bent 40 have po Stringer 1 at Bent 6 has possible rot.	ssible crushing cracks.
22 .	Truss Diagonals		
	-	Not Responsive	
		Nov. 09 As above. Nov. 2012 No crushing or failure is apparent as of this inspection	ı.
26.	Pins/Bolts/Rivets	Not Responsive	
30.	Sub Deck/Cross Ties	Nov. 2012 There is now a lot of movement and seperation in the p substantial amount of potholing and loss of asphalt su	back deck. The result is a Irface material top side.
31 .	Wearing Surface	The deck was extensivly cracked sealed in Sept 08 to p periods. Nov 2011 Deck has heavy rutting and cracking. Nov. 2012 Conditions as described remain similar, and patching	prevent water infiltration during wet is ongoing.
35 .	Railings/Parapets	Nov 2011 There is one broken railing post. Top rail is securely co Nov. 2012 There is a substantial amount of rot in the 2x6 fence ra fence system.	onnected to neighbouring posts. iling at various locations in the
38.	Coating (Railings)	Not Responsive	
Inspection Posted V	<u>n Notes:</u> Veight Restriction		