BC Ministry of Forests and Range

Corporate Bridge Register (CBR)

SITE INVENTORY DATA FORM

*Site # CK-2261	*Site Status ☑ Active ☐ Barricaded/Closed ☐ Deactivated/Closed ☐ Proposed ☐ Transferred ☐ Under Construction
*Site Type: ☑ Crossing ☐ Storage	
*Project File ID#: 8013	*Br. 01
*Forest District: CHILLIWACK	
Management Area:	
*Forest Service Road: STAVE	
*Kilometres: 8.5	User Kilometres:
*Crossing Name: WINSLOW CRK	Close Proximity Inspection Required? ☐ Yes ☐ No
*Inspection Status: ☑ Inspect ☐ Do Not Inspect	
*BCTS Business Area (if applicable):	
Trim Map Sheet #:	1:50,000 Map Sheet #:
Special Access Requirements: ☐ ATV ☐ Boat ☐ 4-Wheel Drive ☐ Gate Key ☑ Helicopter ☐ Isolated Public Access	Special Equipment Requirements: ☐ Peeper Truck ☐ Scuba
Point of Access Description:	
Coordinates Longitude: (ddd / mm / ss.s)	Latitude: (ddd / mm / ss.s)
UTM Zone: 10	UTM Easting: 555324 UTM Northing: 5480782

*Denotes Mandatory Information for Corporate Bridge Register

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Corporate Bridge Register (CBR)

Structure Inventory Data Form "BRIDGES"

GENERAL	
*Structure # CK-2261	*Site #: CK-2261
*Type/Class: ☐ Permanent Bridge ☑ Temporary Bridge	Crossing Name: WINSLOW CRK
*Forest District: CHILLIWACK	Management Area:
*Forest Service Road: STAVE	Kilometres:
*Project File ID#: 8013	*Br. 01
Built For: ☐ BC Timber Sales ☐ Other Commercial Users ☐ Road Use Permit Holder ☐ Operations Division ☐ Road Permit Holder	
*Source: ☐ Inherited: Found Structure ☐ Inherited: Non-Status Road ☐ Inherited: Reallocation ☑ New Structure ☐ Replacement Structure ☐ Inherited: From Oil & Gas/ Other Ministry ☐ Inherited: Transfers from Other Ministries	
Year Built:	Year Added to Inventory:
Current Load Rating GVW (tonnes): (PEng to enter / update this value on structure details screen in CBR)	Design Load Rating GVW (tonnes): (Typically obtained from design drawings)
Design Vehicle Configuration: ☐ BCL625 ☐ CL625 ☐ L100 ☐ L120 ☐ L150 ☐ L165 ☐ L45 ☐ L60 ☐ L75 ☐ L90 ☐ Other	
*Primary User Client Number:	*Client Location Code:
Primary User Name:	
As Built Information on File? ☐ Yes ☐ No	
Installation Cost ($):	Material Cost ($):
REPLACEMENT DETAILS	
Original Replacement (year):	Estimated Closure (year):
Light Vehicle Traffic Replacement (year):	*Full Log Haul Traffic Replacement (year): (PEng to review and evaluate inspector's estimate, and to enter /update this value on structure details screen in CBR). 2015
Estimated Replacement Cost ($):	
Replacement Cost Comments:	

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Structure Inventory Data Form "BRIDGES"

STRUCTURAL DETAILS

Number of Spans: 2

Length of Spans (m) [e.g. for a 3-span bridge – 20, 35, 20] 22.1 14.2

Number of Piers: 1

Pier Type:
- ☐ Concrete
- ☐ Piles - Concrete
- ☐ Piles – Timber Treated
- ☐ Steel Column on Concrete Pad
- ☑ Crib - Timber
- ☐ Piles - Steel
- ☐ Piles – Timber Untreated

Needle Beams? ☐ Yes ☑ No

Portable Structure? ☐ Yes ☑ No

Portable Superstructure Status: ☐ Installed ☐ Storage

Portable Superstructure Storage Location:

***Bridge Length (metres):** 36.3

***Superstructure:**
- ☐ Compo Girders
- ☐ Concrete Cast in Place
- ☐ Concrete Slab Girders
- ☐ Log Stringer
- ☑ Steel I-Beam
- ☐ Timber-Treated Stringers
- ☐ Concrete Box Beam
- ☐ Concrete I/T Beam
- ☐ Glulam Girder
- ☐ Steel Box Beam
- ☐ Steel Truss/Bailey/Acrow
- ☐ Timber-Untreated Stringers
- ☐ Rail Car
- ☐ Other

***Deck Type:**
- ☐ Concrete
- ☐ Concrete Removable
- ☐ Timber-Treated
- ☐ Timber-Treated Panels
- ☐ Concrete Composite
- ☐ Concrete - Steel Free
- ☑ Timber-Untreated
- ☐ Timber-Untreated Panels
- ☐ Gravel
- ☐ Steel
- ☐ Other

***Deck Width (metres):** 4.9

***Running Surface:**
- ☐ Anti-Skid
- ☐ Not Available
- ☐ Asphalt
- ☑ Timber Planks
- ☐ Concrete
- ☐ Gravel

***Left Abutment:**
- ☐ Binwall
- ☐ Concrete Cast in Place
- ☐ Concrete Lock Blocks
- ☐ Concrete Precast
- ☑ Crib, Log or Untreated Timber
- ☐ Other
- ☐ Pile-Temporary Materials
- ☐ Pile-Permanent Materials
- ☐ Sill-Permanent Materials
- ☐ Sill-Temporary Materials
- ☐ Steel Pipe & Precast Pad

***Right Abutment:**
- ☐ Binwall
- ☐ Concrete Cast in Place
- ☐ Concrete Lock Blocks
- ☐ Concrete Precast
- ☑ Crib, Log or Untreated Timber
- ☐ Other
- ☐ Pile-Temporary Materials
- ☐ Pile-Permanent Materials
- ☐ Sill-Permanent Materials
- ☐ Sill-Temporary Materials
- ☐ Steel Pipe & Precast Pad

Comments:

BC Ministry of Forests and Range

Routine Condition Bridge Inspection Form
(except for log stringer or timber stringer bridges)

GENERAL INFORMATION

(enter either long/lat or UTM below – not both)

*Site #: CK-2261 *Structure #: CK-226	*Crossing Name: Winslow Crk	*Type/Class: ☑ Temporary bridge ☐ Permanent bridge	*Project File ID# 8013 *Br. 01
*FSR Name: Stave River	*Forest District: Chilliwack	*Kilometres: 8.50	User km: 8.50

Longitude: (ddd / mm / ss.s)	OR	UTM Zone	UTM Easting	UTM Northing
Latitude: (ddd / mm / ss.s)		10	555324	5480782

LEFT/RIGHT APPROACHES (as seen facing downstream)

E = excellent; G = good; F = fair; P = poor; N/A = not appl., UR = Unrated

Item	Present Condition (circle or fill-in))	Comments (a comment is mandatory if condition "Poor" is selected)
Alignment	E G (F) P UR	
Bridge Ahead Signs Missing	0 1 (2)	
Brushing Required	Yes (No)	
Delineator Missing Left	0 (1) 2	
Delineator Missing Right	(0) 1 2	
Fender Condition	E G (F) P None UR	Fender on the downstream, right corner has shifted. The rest are no post bumpers.
Posted Load Rating	_____(tonnes) or (None)	
Road Surface	E (G) F P UR	

LEFT/RIGHT ABUTMENTS (as seen facing downstream)

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Log/Timber Cribs	E G F (P) N/A UR	4x on left, 5x on right. large cw. Rotten.
Tie-backs	E G (F) P N/A UR	3x
Bin Wall	E G F P (N/A) UR	
Concrete (cast in place; lock blocks, precast)	E G F P (N/A) UR	
Caps or Sills	E G F (P) N/A UR	Corrosion
Piles or Posts	E G F P (N/A) UR	
Ballast Wall	E G F P N/A (UR)	
Wing Wall	E G F (P) N/A UR	Left downstream, falling
Bracing	E G F P (N/A) UR	
Hardware	E G F (P) N/A UR	Lashed loosely at ends
Fill	E (G) F P N/A UR	
Riprap	E G (F) P N/A UR	Most of riprap has eroded away
Bearings	E G F (P) N/A UR	Top log crushing
Corrosion Protection	E G F P (N/A) UR	

Span 1 of 2 (spans are numbered consecutively starting from the left abutment)

Use "Additional Spans" Sheet for Multiple Spans

DECK

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Running Surface (N/A if running surface is gravel or timber planks)	E G F P (N/A) UR	
Running Planks	E (G) F P N/A UR	Recently replaced 4"x12" untreated
Sub-deck	E G F P (N/A) UR	no subdeck
Ties	E (G) F P N/A UR	Recent replacement of some ties
Nails	E (G) F P N/A UR	
Deck to Girder Bolts	E (G) F P N/A UR	
Concrete Deck	E G F P (N/A) UR	
Grout Pockets	E G F P (N/A) UR	
Deck Joints	E G F P (N/A) UR	
Steel Deck Plate	E G F P (N/A) UR	
Gravel Surface	E G F P (N/A) UR	
Gravel Deck Depth	_____metres or (N/A)	
Curb Rail/Blocks/Posts	E (G) F P UR	Rotten bres replaced recently
Handrails/ Walkouts	E G F P (N/A) UR	
Hardware	E (G) F P N/A UR	
Overall Deck Condition	E (G) F P UR	

BC Ministry of Forests and Range

Routine Condition Bridge Inspection Form
(except for log stringer or timber stringer bridges)

GENERAL INFORMATION

*Site #: CK-2261 | *Structure #: CK2261

SUPERSTRUCTURE

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Girders	E G (F) P UR	
Diaphragms	E G F P (N/A) (UR)	
Bracing	E G (F) P N/A UR	
Under-trussing	E G F P (N/A) UR	
Hardware	E G F P (N/A) UR	
Welded / Grouted Shear Connectors	E G F P (N/A) UR	

Stream CHANNEL

*Est. Present Water Level Depth 0.5 (m) | *Est. Present Water Level Width 10 (m) | *Est. High Water Level Clearance 3.0 (m)

HAZARDS (circle yes or no for each item))

High Water? Yes (No) | Scour? (Yes) No | Ice? Yes (No) | Debris? (Yes) No | Aggradation? (Yes) No

Comments Debris jammed upstream of span 2, scour on cribs.

REPAIRS: ☑ Recommended ☐ Not required (H = High, M= Medium, L = Low)

Repair Item #	*Priority (circle)	*Estimate ($)	*Repair Description
1	(H) M L	$1.00	Install two bridge ahead signs.
2	(H) M L	$1.00	Post bridge ahead + load rating signs
3	(H) M L	$1.00	Remove debris accumulation

*Monitoring Status: ☑ Recommended ☐ Not required

Monitor Item #	*Monitor Description
1	Crushing top crib log
2	debris accumulations at inlet

PHOTO LOG

Photo #	Description	Photo #	Description
1	Span 1 Downstream #5 Pier span 1 downstream crack	9	From north #13 Pier span 2
2	Downstream left beam #6 Left abutment	10	From left #14 span 1 upstream
3	Right abutment #7 Wing wall left	11	Span 2 upstream #15 Pier span 2 (2)
4	Span 2 Downstream #8 Upstream left beam	12	Right fender #16 Right abutment (2)

INSPECTOR TO COMPLETE THIS SECTION #17 Pier span 1 upstream #18 Pier span 1 Downstream #19 Pier span 1 Downstream (2)

As-built Drawings Checked?	P Eng Inspection Required?	Inspector's Estimate of Full Log Haul Traffic Replacement Date (year):
Yes (No)	(Yes) No	2023

(PEng to review and evaluate inspector's estimate of "Full Log Haul Traffic Replacement (year)" on structure detail screen in CBR)

*Date of Inspection (yyyy/mm/dd)	*Inspection Company Name	*Inspector's Name (print)	Inspector's Signature
2013/09/25	ONSITE	Jeremy Araki	J. C. P. ARAKI # 29756 PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

Inspector's Comments
PEng to review - crushing in sills. No new cracks noted.

PROFESSIONAL ENGINEER (PEng) TO COMPLETE THIS SECTION

Current Load Rating GVW (tonnes): 30 tonnes (PEng to update structure details screen in CBR as necessary)

Date of Next Planned Inspection (yyyy/mm/dd): 2014/09/30

Reviewer Company Name	Reviewed by - PEng's Name (print)	Reviewed by - PEng's Signature	Date Reviewed (yyyy/mm/dd)
MoF	T. Miller		2014/01/15

PEng Reviewer's Comments
Due to the rotting and subsequent crushing in the top log in the abutments and pier, the load rating is reduced to 30 tonnes. The cribs and pier are 27 years old and past due for replacement. That said a short term fix would be to replace each of the top logs in the abutments and pier to reestablish an industrial load rating with the longer term plan being a complete replacement. Post updated load rating signs, bridge ahead signs, and replace the missing delineator. Monitor the debris accumulations at the inlet and if required cut them into small pieces so when the river rises they don't get wedged between the bearing points.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA T. W. MILLER # 35995

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Routine Condition Bridge Inspection Form
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USE THIS SHEET FOR ADDITIONAL SPANS

GENERAL INFORMATION

Site # CK-2261 Structure # CK-2261

Span 2 of 2 (spans are numbered consecutively starting from the left abutment)

DECK

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Running Surface (N/A if running surface is gravel or timber planks)	E G F P (N/A) UR	
Running Planks	E G (F) P N/A UR	4" x 12"
Sub-deck	E G F P (N/A) UR	No Subdeck
Ties	E (G) F P N/A UR	
Nails	E G (F) P N/A UR	
Deck to Girder Bolts	E G F P (N/A) UR	Not visible
Concrete Deck	E G F P (N/A) UR	
Grout Pockets	E G F P (N/A) UR	
Deck Joints	E G F P (N/A) UR	
Steel Deck Plate	E G F P (N/A) UR	
Gravel Surface	E G F P (N/A) UR	
Gravel Deck Depth	_____ metres or (N/A)	
Curb Rail/Blocks/Posts	E G (F) P UR	
Handrails/ Walkouts	E G F P (N/A) UR	
Hardware	E G (F) P N/A UR	
Overall Deck Condition	E G (F) P UR	

SUPERSTRUCTURE

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Girders	E G (F) P UR	
Diaphragms	E G F P (N/A) (UR)	
Bracing	E G (F) P N/A UR	
Under-trussing	E G F P (N/A) UR	
Hardware	E G F P (N/A) UR	
Welded / Grouted Shear Connectors	E G F P (N/A) UR	

PIER 1 of 1 (piers are numbered consecutively starting from the left abutment)

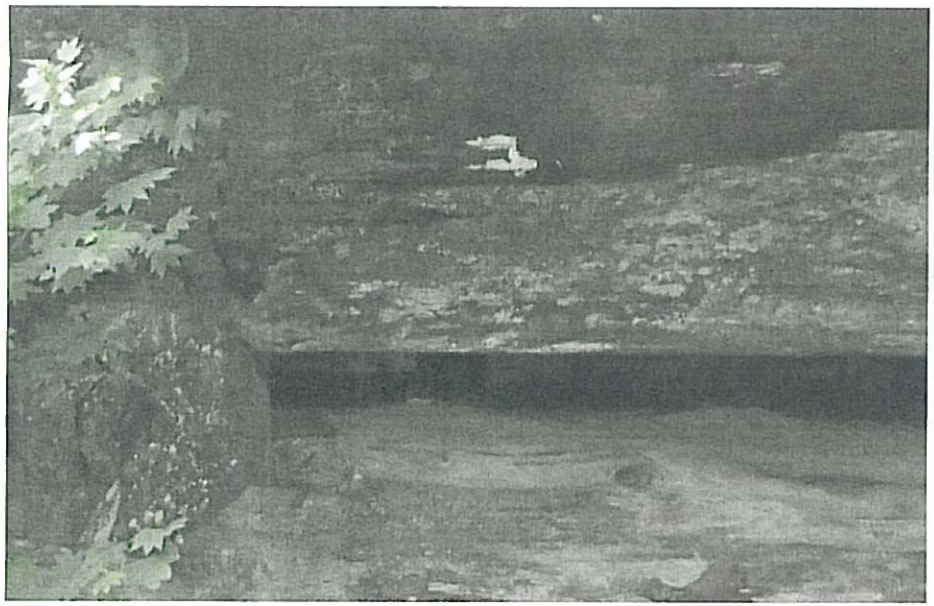
Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Caps	E G F (P) UR	
Piles or Posts	E G F P (N/A) UR	
Concrete	E G F P (N/A) UR	
Bracing or Sheathing	E G F P (N/A) UR	
Cribs	E G F (P) N/A UR	5x log cribs
Hardware	E G (F) P N/A UR	lashed at corners
Rip Rap	E G (F) P N/A UR	only upstream & downstream
Dolphins	E G F P (N/A) UR	
Bearings	E G F (P) N/A UR	cracked on span 1, totally rotten = d on 2
Wall	E G F P (N/A) UR	
Overall	E G (F) P UR	

CK-2261 Span 1 Downstream

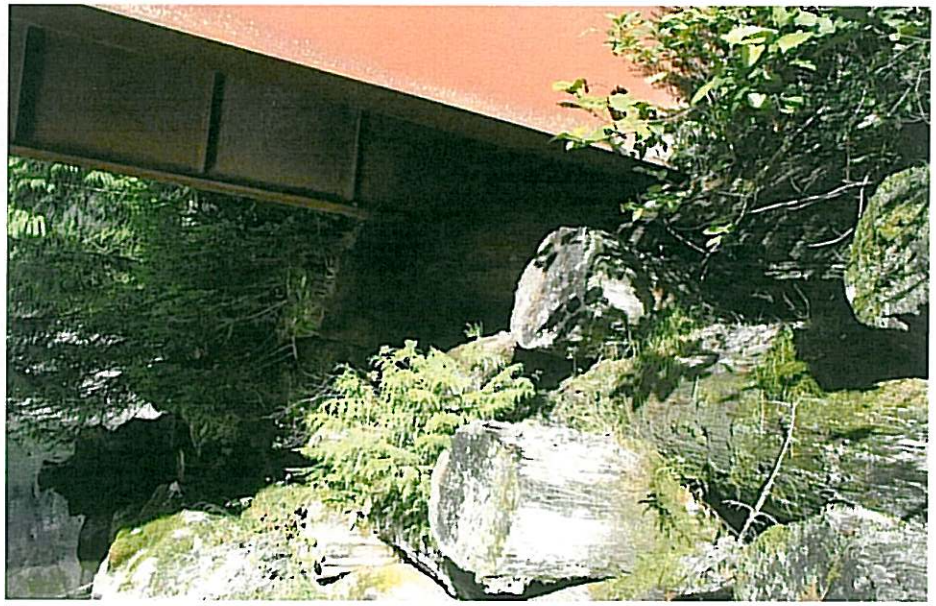
CK-2261 Downstream Left Beam

CK-2261 Right Abutment

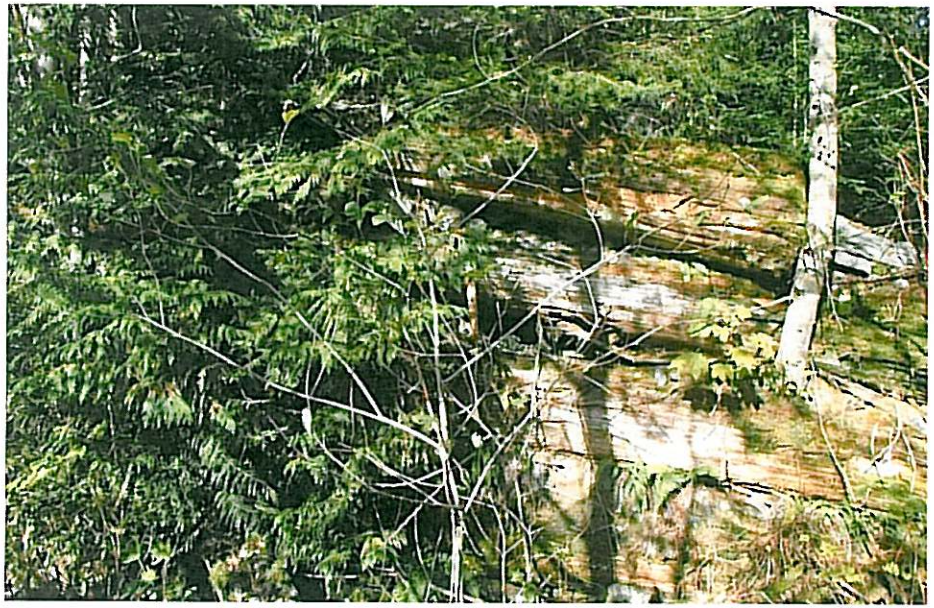
CK-2261 Span 2 Downstream



CK-2261 Pier Span Downstream Crack



CK-2261 Left Abutment



CK-2261 Wing Wall Left

CK-2261 Upstream Left Beam

CK-2261 From Right

CK-2261 From Left

CK-2261 Span 2 Upstream

CK-2261 Right Fender

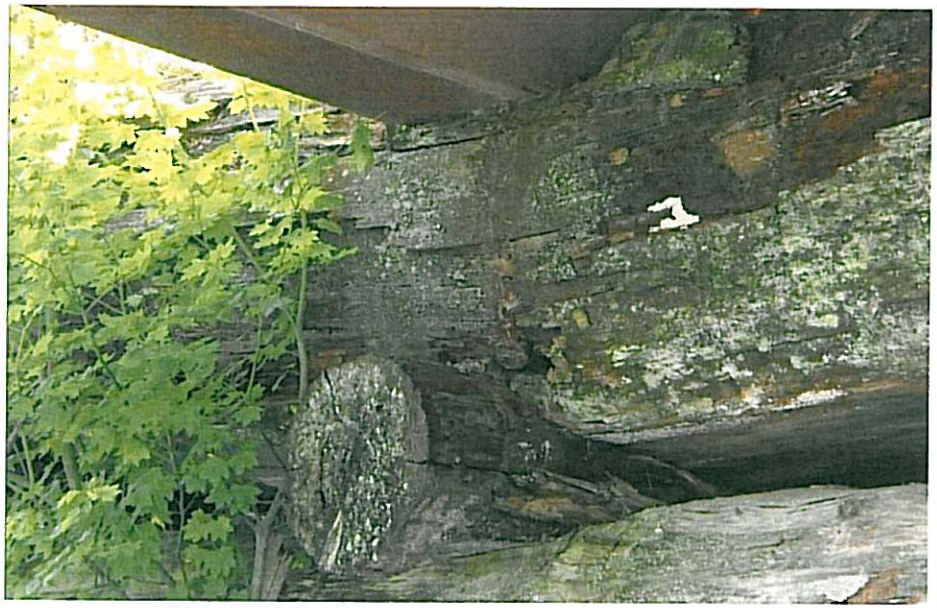
CK-2261 Pier Span 2

CK-2261 Span 1 Upstream

CK-2261 Pier Span 2 (2)

CK-2261 Right Abutment (2)

CK-2261 Pier Span 1 Upstream



CK-2261 Pier Span 1 Downstream

CK-2261 Pier Span 1 Downstream (2)