BC Ministry of Forests and Range

*Corporate Bridge Register (CBR)*

# Structure Inventory Data Form "BRIDGES"

| | |
|---|---|
| **GENERAL** | |
| *Structure # CK 2263 | *Site #: CK 2263 |
| *Type/Class: ☐ Permanent Bridge ☐ Temporary Bridge | Crossing Name: SIDE CREEK |
| *Forest District: CHILLIWACK | Management Area: |
| *Forest Service Road: STAVE RIVER | Kilometres: 11.4 |
| *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). |
| Estimated Replacement Cost ($): | |
| Replacement Cost Comments: | |

* Denotes Mandatory Information for Corporate Bridge Register

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# Structure Inventory Data Form "BRIDGES"

**STRUCTURAL DETAILS** CK-2263

| | |
|---|---|
| **Number of Spans:** 1 | **Length of Spans (m) [e.g. for a 3-span bridge – 20, 35, 20]** 11.4 |
| **Number of Piers:** — | **Pier Type:** ☐ Concrete ☐ Crib - Timber ☐ Piles - Concrete ☐ Piles - Steel ☐ Piles – Timber Treated ☐ Piles – Timber Untreated ☐ Steel Column on Concrete Pad |

| | | |
|---|---|---|
| **Needle Beams?** ☐ Yes ☑ No | **Portable Structure?** ☐ Yes ☐ No | **Portable Superstructure Status:** ☐ Installed ☐ Storage |

**Portable Superstructure Storage Location:**

***Bridge Length (metres):** 11.4

***Superstructure:**

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

***Deck Type:**

| | | |
|---|---|---|
| ☐ Concrete | ☐ Concrete Composite | ☑ Gravel |
| ☐ Concrete Removable | ☐ Concrete - Steel Free | ☐ Steel |
| ☐ Timber-Treated | ☐ Timber-Untreated | ☐ Other |
| ☐ Timber-Treated Panels | ☐ Timber-Untreated Panels | |

***Deck Width (metres):** 5.6

***Running Surface:**

| | | | |
|---|---|---|---|
| ☐ Anti-Skid | ☐ Asphalt | ☐ Concrete | ☑ Gravel |
| ☐ Not Available | ☐ Timber Planks | | |

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

**Comments:**

BC Ministry of Forests and Range

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

## GENERAL INFORMATION

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

| | | | |
|---|---|---|---|
| *Site #: CK2263 | *Crossing Name: SIDE CRK | *Type/Class: ☐ Major Culvert ☑ Woodbox/Log Culvert | *Project File ID# 8013 |
| *Structure #: CK2263 | | | *Br. 01 |
| *FSR Name: STAVE RIVER | *Forest District: CHILLIWACK | *Kilometres: 11.4 | User km: 11.4 |

| | OR | UTM Zone | UTM Easting | UTM Northing |
|---|---|---|---|---|
| Longitude: (ddd / mm / ss.s) _____ | | | | |
| Latitude: (ddd / mm / ss.s) _____ | | | | |

## 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 | |
| Posted Load Rating | _____ (tonnes) or (None) | not post |
| 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 | 3x CRIBS on left abut. top log has a large horizontal fracture starting from mid tie back up toward U/S. → 3X |
| Tie-backs | E G (F) P N/A UR | |
| 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 | |
| Piles or Posts | E G F P (N/A) UR | |
| Ballast Wall | E G F P (N/A) UR | Can't see |
| Wing Wall | E G F P N/A UR | |
| Bracing | E G F P (N/A) UR | |
| Hardware | E G (F) P N/A UR | cribs looked at ends loose. |
| Fill | E (G) F P N/A UR | |
| Riprap | E G F P (N/A) UR | likely no rip rap |
| Bearings | E G F (P) N/A UR | Due to left abut cribs. |
| Corrosion Protection | E G F P (N/A) UR | |

## Span 1 of 1 (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 | |
| Sub-deck | E G F P (N/A) UR | |
| 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 | |
| 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 | 0.0 metres or N/A | |
| Curb Rail/Blocks/Posts | E G F (P) UR | no fenders |
| 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
## (for log stringer or timber stringer bridges)

## GENERAL INFORMATION

*Site #: CK 2263 | *Structure #: CK 2263

## SUPERSTRUCTURE (stringers numbered from upstream side of bridge)

| Item | Present Condition (circle) | Comments (a comment is mandatory if condition "Poor" is selected) |
|---|---|---|
| Log Curbs | E G F (P) UR | no curbs |
| Needle Beams and Shims | E G F P N/A (UR) | Yes needle beams |

| Stringer # | Wood Species | Peeled? (circle) | Diameter (mm) or Width x Depth (mm x mm) | Rot Depth Bottom (mm) | Rot Depth Side (mm) | Rot Depth Top (mm) | Comments |
|---|---|---|---|---|---|---|---|
| 1 | | Y N | | | | | Can not access stringers at bearing point due to beaver dam |
| 2 | | Y N | | | | | |
| 3 | | Y N | | | | | |
| 4 | | Y N | | | | | |
| 5 | | Y N | | | | | |
| 6 | | Y N | | | | | |
| 7 | | Y N | | | | | |
| 8 | | Y N | | | | | |
| 9 | | Y N | | | | | |
| 10 | | Y N | | | | | |

## Stream CHANNEL

*Est. Present Water Level Depth 0.6 (m) | *Est. Present Water Level Width 5 (m) | *Est. High Water Level Clearance 0.4 (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: Woody debris from beaver dam.

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

| Repair Item # | *Priority (circle) | *Estimate ($) | *Repair Description |
|---|---|---|---|
| 1 | (H) M L | | Install crib legs. |
| 2 | (H) M L | | clear inlet so stringers can be assessed. |
| 3 | H M L | | |

## *Monitoring Status: ☐ Recommended ☐ Not required

| Monitor Item # | *Monitor Description |
|---|---|
| (1) | left crib for settling. |
| 2 | |

## PHOTO LOG

| Photo # | Description | Photo # | Description |
|---|---|---|---|
| | R TOL | | left abut crib settling |
| | L TOL | | Rock apron |
| | From D/S | | From U/S |
| | Debris | | Beaver dam |

## INSPECTOR TO COMPLETE THIS SECTION

As-built Drawings Checked? Yes (No) | P Eng Inspection Required? Yes (No) | Inspector's Estimate of Full Log Haul Traffic Replacement Date (year): 2013 (PEng to review and evaluate inspector's estimate, and to update "Full Log Haul Traffic Replacement (year)" on structure details screen in CBR as necessary)

| *Date of Inspection (yyyy/mm/dd) | *Inspection Company Name | *Inspector's Name (print) | Inspector's Signature |
|---|---|---|---|
| 2012-08-23 | Onsite Eng. Ltd. | A. [illegible] | |

Inspector's Comments: It appears the structure has had some work done to it. More fill added - [illegible]

## PROFESSIONAL ENGINEER TO COMPLETE THIS SECTION

T.W. MILLER

| Current Load Rating GVW (tonnes): TBD (PEng to update structure details screen in CBR as necessary) | | Date of Next Planned Inspection (yyyy/mm/dd) 2013/09/30 | |
|---|---|---|---|
| Reviewer Company Name: MoF | Reviewed by - PEng's Name (print): T. Miller | Reviewed by - PEng's Signature: | Date Reviewed (yyyy/mm/dd): Feb 4, 2013 |

PEng Reviewer's Comments: Clean debris from under the structure and assess log stringers for an updated load rating.

* Denotes Mandatory Information for Corporate Bridge Register

CK2263 Left Abutment

CK2263 Beaver dam

CK2263 Right Abutment

CK2263 From Downstream

CK2263 Crib settling (2)

CK2263 Crib settling (3)

CK2263 Right to Left

CK2263 Crib settling (1)

CK2263 Left to Right

CK2263 From Upstream