

CK-2263

STAVE RIVER 11.4km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

## CBR Data

|                              |                               |          |   |
|------------------------------|-------------------------------|----------|---|
| Latitude                     | Longitude                     |          |   |
| 49°29'28.2"                  | -122°15'22.4"                 |          |   |
| Crossing Name                | Side Creek                    |          |   |
| FSR #                        | 8013                          | Branch # | 1 |
| Road Name                    | STAVE RIVER                   |          |   |
| User km                      | 11.4                          |          |   |
| Current Load Rating (tonnes) | 30                            |          |   |
| Structure Class              | Temporary Bridge              |          |   |
| Portable                     | N                             |          |   |
| Superstructure               | Log Stringers                 |          |   |
| Deck Type                    | Gravel                        |          |   |
| Abutment Left                | Crib, Log or Untreated Timber |          |   |
| Abutment Right               | Crib, Log or Untreated Timber |          |   |
| Spans                        | 1                             |          |   |
| Total Length (m)             | 11.4                          |          |   |
| Deck Width (m)               | 5                             |          |   |

## Updated Data

|              |                |              |    |
|--------------|----------------|--------------|----|
| Latitude     | Longitude      |              |    |
| 49°29'28.18" | -122°15'23.37" |              |    |
| HD Diff. (m) | 19.5           | Accuracy (m) | 30 |
| 10.3         |                |              |    |
| 10 tonnes    |                |              |    |

## Inspection

Date of Inspection 2016-07-28 8:50:16 AM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

## Inspector Comments

Bridge is in relatively poor condition due to deterioration of the abutments. The top crib log has split, a few tie backs have rotten ends, and the left abutment appears to have settled. Curb logs are missing. The bridge is currently load rated for 30 tonnes but no load posting sign is in place. Limited access to right abutment due to beaver dam. Error in App, subtract 1 for actual stringer number. Updated user km based on road km markings.

## P.Eng Comments

The entire structure is in poor condition. Limit loading to 10 tonnes, post load rating signs. Replace missing curb and fender logs immediately. Replace structure soon.



10/03/2017

P.Eng Seal

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## Approach

Alignment Good

 Bridge Ahead Signs  
Missing ☐ 0 ☐ 1 ☒ 2

Brushing Required N

 Delineator Missing  
Left ☒ 0 ☐ 1 ☐ 2

 Delineator Missing  
Right ☒ 0 ☐ 1 ☐ 2

Fender Condition Poor None in place.

Posted Load Rating No load posting sign.

Road Surface Good

## Abutment

Log/Timber Cribs Poor Top log at left abutment upstream corner has split. 40 mm sap rot, some end rot outside of bearing area. Left abutment settled 600 mm to upstream side.

Tie Backs Poor Rotten ends in a few tie backs. No signs of crushing or distress.

Bin Wall N/A

Concrete N/A

Caps or Sills N/A

Piles or Posts N/A

Ballast Wall N/A

Wing Wall N/A

Bracing N/A

Hardware Poor Deck hardware: no curb log lashing.

Fill Fair

Riprap Poor No riprap.

Bearings N/A No rubber bearings on bridge.

Corrosion Protection N/A

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**Deck**

|                        |      |                                   |
|------------------------|------|-----------------------------------|
| Running Surface        | Fair |                                   |
| Running Planks         | N/A  |                                   |
| Sub Deck               | N/A  |                                   |
| Ties                   | N/A  |                                   |
| Nails                  | N/A  |                                   |
| Deck to Girder Bolts   | N/A  |                                   |
| Concrete Deck          | N/A  |                                   |
| Grout Pockets          | N/A  |                                   |
| Deck Joints            | N/A  |                                   |
| Steel Deck Plate       | N/A  |                                   |
| Gravel Surface         | Fair | Pothole in deck.                  |
| Curb Rail/Blocks/Posts | N/A  |                                   |
| Hand Rails/Walkouts    | N/A  |                                   |
| Hardware               | Fair | Abutment hardware: loose lashing. |
| Overall Deck Condition | Poor | No curb logs.                     |
| Gravel Depth (mm)      | 500  |                                   |

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**Steel/Concrete**

Serial/ID Plate No ID Tag.

Girders N/A

Diaphragms N/A

Bracing N/A

Under Trussing N/A

Hardware N/A

Welded/grouted  
shear connectors N/A**Log**

Log Curbs Poor None in place.

Needle Beam N/A

Needle Lashing/  
Shimming N/A

Needle Beam to Crib (m)

Needle Diameter (mm)

| Stringer<br>Number | Species | Peeled | Diameter<br>(mm) | Rot Depth<br>(mm) | Condition | Comment                                        |
|--------------------|---------|--------|------------------|-------------------|-----------|------------------------------------------------|
| 2                  | Cw      | Y      | 760              | 0                 | Fair      | 20 sap rot. Knots. Fungus. 2015 insp: 40 rot.  |
| 3                  | Fd      | Y      | 920              | 0                 | Fair      | No sap rot. Fungus. 2015 insp: 30 rot.         |
| 4                  | Cw      | Y      | 620              | 0                 | Fair      | 20 sap rot. Lots knots. 2015 insp: 60 rot.     |
| 5                  | Cw      | Y      | 930              | 0                 | Fair      | 30 sap rot. Limited access. 2015 insp: 50 rot. |
| 6                  | Cw      | Y      | 750              | 0                 | Fair      | 15 sap rot. Lots knots. 2015 insp: 50 rot.     |
| 7                  | Cw      | Y      | 680              | 0                 | Fair      | 60 sap rot. 2015 insp: 60 rot.                 |

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## Hazards

|                                          |     |             |                                     |        |                                     |
|------------------------------------------|-----|-------------|-------------------------------------|--------|-------------------------------------|
| Estimated Present Water Level Depth (m)  | 0.3 | High Water  | <input type="checkbox"/>            | Debris | <input checked="" type="checkbox"/> |
| Estimated Present Water Level Width (m)  | 6   | Aggradation | <input checked="" type="checkbox"/> | Scour  | <input checked="" type="checkbox"/> |
| Estimated High Water Level Clearance (m) | 0   | Ice         | <input type="checkbox"/>            |        |                                     |

Comments Gravel bar formed under bridge with beaver dam built on top. Some scour at the right abutment upstream corner. Debris upstream.

## Repairs and Monitoring

| Repair Item | Priority | Repair Description                                 |
|-------------|----------|----------------------------------------------------|
| 1           | High     | Install curb logs, fenders, and load posting sign. |
| 2           | High     | Plan for replacement of bridge.                    |
| 3           | Medium   | Install bridge ahead signs. Remove beaver dam.     |

| Item | Monitor Description                  | Frequency |
|------|--------------------------------------|-----------|
| 1    | Monitor abutments until replacement. | Anually   |
| 2    |                                      |           |
| 3    |                                      |           |

Sketch  
(Select Signature)



Right Approach Facing Bridge



Deck



Right Approach Facing Away From Bridge



Left Approach Facing Away From Bridge



Left Approach Facing Bridge



Looking Downstream



Looking Upstream



Downstream Elevation



Right Bank Abutment



Upstream Elevation



Beaver Dam



Stringers



Left Abutment Split Crib Log



Stringer 3 Lots Knots



Stringer 5 Lots of Knots



Stringer 1 Small Fungal Growth



Stringer 2 Fungal Growth



Left Abutment Note Slope of Logs