



DOK | 2007 Bridge Inspection Review and Rating | Dec.1st, 2008

Issues in red require immediate attention
Issues in bold black need attention for safety concerns

Structure #	Road Name	Project #	Branch #	Station (km)	Creek Name	Old load rating (Tonnes)	New load rating (Tonnes)	Reviewing Engineer	Reviewing Engineer's Comments
CK-2003	American Creek	8123	1	8.5	American Creek	10	5	Dan Robek, P.Eng	Strongly recommend replacement. New load rating is 5 tonnes
CK-2004	Anderson River	8074	1	1	1 Six Creek	41	41	Dan Robek, P.Eng	Retain present load rating of L-45 or 41 tonnes
CK-2005	Anderson Creek	8074	1	2.7	Gill Creek	41	41	Dan Robek, P.Eng	Retain present load rating of L-45 or 41 tonnes
CK-2007	Anderson River 07	8074	7	0.1	Anderson River	41	41 tonnes, subject to carrying out scour damage repair	Dan Robek, P.Eng	Present load rating of L-45 or 41 tonnes to continue, subject to carrying out scour damage repair
CK-2008	Anderson River 07	8074	7	0.3	Side Creek		41 tonnes, subject to replacing sill logs and stringer #1	Dan Robek, P.Eng	New load rating is L-45 or 41 tonnes, subject to replacing sill logs and stringer #1
CK-2016	Cantelon Creek	8124	1	9.1		0		Dan Robek, P.Eng	Replace ties and deck. For now, close down the bridge and post "no" load rating. Advise all users.
CK-2047	Chenais - Mystery	8241	11	11.9	Mystery Creek	54	54	Dan Robek, P.Eng	Present load rating of L-60 or 54 tonnes to continue
CK-2048	Chilliack River	5127	1	1	Side Creek	n/a	54	Dan Robek, P.Eng	Rated at L-60 or 54 tonnes
CK-2049	Chilliack River	5127	1	1.5	Side Creek	54	54	Dan Robek, P.Eng	Rated at L-60 or 54 tonnes
CK-2061	Chilliack - Little Tamih Creek	5127	4	0.7	Lumchen Creek	54	54	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes
CK-2064	Chilliack-Tamih Creek	5127	6	6.3	Tamih Creek	68	68	Dan Robek, P.Eng	Present load rating of L-75 or 68 tonnes to continue. Monitor town side abutment.
CK-2065	Chilliack-Tamih Creek	5127	6	8.3	Fumerol Creek			Dan Robek, P.Eng	Strongly recommend replacement of structure. Until then, close down the access. Advise all users.
CK-2066	Chilliack-Tamih Creek	5127	6	10.3	Stapley Creek		68	Dan Robek, P.Eng	Recommend closure and replacement with permanent structure. 68 tonnes or L-75
CK-2068	Chilliack-Slesse Creek	5127	7	6.1	Slesse Creek		10	Dan Robek, P.Eng	Replace ties and deck to attain load rating of L-60 or 54 tonnes. Until then, post new rating of 10 tonnes. Advise all users.
CK-2069	Chilliack-Slesse Borden Creek	5127	8	0.7	Side Creek			Dan Robek, P.Eng	Strongly recommend replacement. Need as-built and amount of rot to determine present rating.
CK-2075	Chilliack-Foley Creek	5127	13	2.1	Foley Creek	54	54	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes
CK-2076	Chilliack-Foley Creek	5127	13	4.4	Foley Creek	54	54	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes
CK-2077	Chilliack-Airplane Creek	5127	14	0.1	Foley Creek	54	54	Dan Robek, P.Eng	Present load rating of L-60 or 54 tonnes to continue
CK-2084	Chilliack-South	5127	26	0.1	Black Channel	54	54	Dan Robek, P.Eng	Present load rating of L-60 or 54 tonnes to continue
CK-2085	Chilliack-South	5127	26	0.1	Chilliack River	91	91	Dan Robek, P.Eng	Retain present load rating of L-100 or 91 tonnes
CK-2161	Lorenzetta-Hunter East Creek	6086	2	1.3	Side Creek	150	150	Dan Robek, P.Eng	Present rating of L-165 or 150 tonnes to continue. (This rating applies to all steel portable structure)
CK-2162	Lost Creek	8466	1	0.8	Side Creek	136	150	Dan Robek, P.Eng	Retain original design rating. 150 tonnes.
CK-2163	Lost Creek	8466	1	1.1	Side Creek		136 (culvert)	Ljubo Stevanovic, P.Eng	Retain original design rating. 136 tonnes
CK-2164	Lost Creek	8466	1	1.4	Side Creek		68	Dan Robek, P.Eng	Retain original design rating. L-75 or 68 tonnes
CK-2165	Lost Creek	8466	1	2.2	Murdo Creek	68	68	Dan Robek, P.Eng	Present load rating of L-75 or 68 tonnes to continue
CK-2166	Lost Creek	8466	1	5	Weatherhead Creek	54	54	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes
CK-2171	Lost Creek	8466	1	17.8	Kenyon Creek		54	Dan Robek, P.Eng	Retain present rating of L-60 or 54 tonnes. Please check as-builts and verify
CK-2172	Lost Creek	8466	1	18.8	Kenyon Creek		54	Dan Robek, P.Eng	Based on the above, structure is rated at L-60 or 54 tonnes. Due to overall condition, consider replacement
CK-2174	Lost Murdo	8466	2	0.7	Side Creek	54	5 (wood deck & steel girders)	Dan Robek, P.Eng	Post new rating of 5 tonnes. Advise all users. Replace ties and deck to attain original load rating. Refer to as-builts for original load rating.
CK-2175	Lost Murdo	8466	2	1.2	Side Creek	54	5 (wood deck & steel girders)	Dan Robek, P.Eng	Post new rating of 5 tonnes. Advise all users. Replace ties and deck to attain original load rating. Refer to as-builts for original load rating.
CK-2176	Lost South	8466	4		Darlene Creek	68	68 (all steel portable)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2182	Lost - North	8466	8	0.4	Lost Creek	68	68 (all steel portable)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2203	Nahatlatch (Kookipi 3)	6996	3	2.4	Side Creek	136	5 (4m span log stringer w/ gravel)	Greg Dohm, P.Eng	Post new rating of 10 tonnes. Advise all users. Recommend replacement.
CK-2204	North Ainslie	8019	1	10.8	Goulah Creek	54	41 (log stringer w/ gravel)	Dan Robek, P.Eng	Post new rating of 41 tonnes (L45). Advise all users.
CK-2260	Slave River	8013	1	4.1	Roaring Creek	68	68 (concrete deck & steel girders)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2261	Slave River	8013	1	8.5	Winslow Creek	68	68 (concrete deck & steel girders)	Dan Robek, P.Eng	Limit present load rating of L-75 or 68 tonnes. Monitor pier and cribs. Inspect after storm event

CK-2262	Slave River	8013	1	10.5 Side Creek	54	54 (log stringer w/ gravel)	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes.
CK-2263	Slave River	8013	1	11.4 Side Creek	54	54 (log stringer w/ gravel)	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes.
CK-2265	Slave River	8013	1	13.2 Side Creek	54	54 (log stringer w/ gravel)	Dan Robek, P.Eng	Retain present load rating of L-60 or 54 tonnes. Consider replacement in 2 years.
CK-2266	Slave River	8013	1	16.8 Side Creek	54	41 (log stringer w/ gravel)	Dan Robek, P.Eng	Post new rating of 41 tonnes (L45). Advise all users. Replace Recommend replacement.
CK-2269	Slave River	8013	1	21.6 Slave River	68	10 (wood deck & steel girders)	Dan Robek, P.Eng	Post new rating of 10 tonnes. Advise all users. Replace crib to attain original rating of L75 or 68 tonnes.
CK-2270	Slave River	8113	1	23.6 Side Creek	41	41 (log stringer w/ wood deck)	Dan Robek, P.Eng	Retain present load rating of L-45 or 41 tonnes.
CK-2271	Slave River	8013	1	26.2 Slave River	68	68 (wood deck & steel girders)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2272	Slave River	8013	1	26.7 Side Creek	68	68 (culvert)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2273	Slave River	8013	1	30.9 Side Creek	68	68 (culvert)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2274	Slave River	8013	1	31.6 Side Creek	5	5 (log stringer w/ gravel)	Greg Dohm, P.Eng	Retain previous load rating of 5 tonnes. Please confirm this is the original bridge and that it has not recently been replaced.
CK-2275	Slave River	8013	1	32.8 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes). Significant culvert bedload needs to be removed.
CK-2277	Slave - Winslow Creek	8013	2	0.9 Beaver Creek Dam	68	68 (concrete girder)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2315	Wray-Berkey Creek	8113	2	4.2 Berkey Creek	none	5 (log stringer w/ wood deck)	Greg Dohm, P.Eng	Recommend closure and replacement.
CK-2327	Slave River	8013	1	0 Side Creek	68	0 (wood deck & steel girders)	Greg Dohm, P.Eng	Recommend closure and deck replacement.
CK-2331	Slave River	8013	1	5.1 Camp Creek	60	68 (log stringer w/ gravel)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2332	Slave River	8013	1	1.4 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2333	Slave River	8013	1	3 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2334	Slave River	8013	1	4.4 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2335	Slave River	8013	1	7.2 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2336	Slave River	8013	1	7.2 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2339	Slave River	8013	1	13.6 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2341	Slave River	8013	1	16.9 Side Creek	54	54 (log stringer w/ gravel)	Greg Dohm, P.Eng	Retain present load rating of L60 (54 tonnes). Recommend cleaning debris ASAP to prevent washout...and plan for replacement to increase hydraulic capacity.
CK-2343	Slave River	8013	1	28.1 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2344	Slave River	8013	1	33.1 Side Creek	68	2 (log stringer w/ gravel)	Greg Dohm, P.Eng	Recommend downrating to 2 tonnes/PU. Missing info to properly rate bridge. Recommend planning to replace bridge.
CK-2344	Slave River	8013	1	33.1 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Missing 2007 culvert inspection information.
CK-2345	Slave - Winslow Creek	8013	2	2.4 Bradley Creek	68	68 (concrete deck & steel girders)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2349	Slave River	8013	1	5.2 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2350	Slave River	8013	1	6.7 Side Creek	68	68 (culvert)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2353	Slave - Winslow Creek	8013	2	1.9 Side Creek	68	68 (concrete girder)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2358	Lost Creek	8466	1	3.1 Side Creek	54	54 (culvert)	Dan Robek, P.Eng	Retain original design rating: L-60 or 54 tonnes
CK-2365	Lost Creek	8466	1	1.1 Side Creek	136	136	Dan Robek, P.Eng	Retain original design rating, 136 tonnes
CK-2370	Karen Creek	8240	1	1.81 Karen Creek	68	68	Dan Robek, P.Eng	Present load rating of L-75 or 68 tonnes to continue.
CK-2371	Karen Creek	8240	1	2.26 Side Creek	68	68	Dan Robek, P.Eng	Present load rating of L-75 or 68 tonnes.
CK-2378	Slave River	8013	1	8.8 Winslow Side Channel	68	68 (concrete deck & steel girders)	Greg Dohm, P.Eng	Retain present load rating of L75 (68 tonnes).
CK-2387	Chilliwack River	5127	1	6.7 Paleface creek side channel	63.8	63.8 (concrete girder)	Greg Dohm, P.Eng	Retain present load rating of CL625 (63.8 tonnes).
CK-2394	Harrison East	5748	2	0.2 Big Silver Creek	unknown	0 (log stringer w/ gravel)	Greg Dohm, P.Eng	Recommend closure, and replacement.
CK-2397	Harrison East - Shovel Creek	5748	1	3.3 Side Creek	unknown	5 (log stringer w/ wood deck)	Greg Dohm, P.Eng	Recommend closure until approaches, abutments and curbs repaired. Once repairs completed load rate for 5 tonne. Recommend bridge replacement.
CK-2400	Nesakwatch Lake	5127	16	1.07	68	68 (all steel portable)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2401	Nesakwatch Lake	2127	16	1.64	68	68 (concrete girder)	Dan Robek, P.Eng	Retain present load rating of L-75 or 68 tonnes.
CK-2409	Pitt-Bucklim	8224	1	23 Bucklim creek	63.8	5 (log stringer w/ wood deck)	Ljubo Stevanovic, P.Eng	Recommend downrating to 5 tonne or bridge replacement
CK-2416	Squeah	6092	1	13 Kleikum Creek	68	5 (log stringer w/ wood deck)	Dan Robek, P.Eng	Recommend downrating to 5 tonne. Recommend bridge replacement

Map / Location		LOG / TIMBER STRINGER BRIDGE										Bridge Picture									
Structure Number: CK-2003		Forest Service Road: American Creek										Km: 8.50		Page: 1		Of: 1					
Crossing: American Creek												District: Chilliwack		Span: 4.9c/c		SBFEP/FRM: BCTS		Project Number: 8123.01			
Date of this M: 09		Date of Next M: 09		YEAR BUILT:		Bridge Class: Semi Permanent		Number of Spans: 1													
Inspection: Y: 2007		Inspection: Y: 2009		1986								Stream Classification:									

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	300mm gravel cover.	
	Ties	6		
	Nails	6		
	Curbs and Blocks	6	Curbs present but in poor condition (CK-2003-a5 and a6).	
	Delineators	3	All delineators present.	

STRINGERS	Span Number:		Number of Stringers:		Average Stringer Rot Depth For Wood Culvert (mm):		10mm sap rot; 0mm		Stringer Comments					
	1		10											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Diameter mm	720	650	630	620	570	480	650	700	520	800			
	Sap rot mm	10	20	5	5	30	20	5	30	5	0			
	Species	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw			

Stringers numbered from upstream to downstream, Stringer #8 has 270mm thick shell remaining.

CONDITION		REMARKS	
NEEDLE BEAM(S) SHIMS	6		
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	3	Town side: 2 log high cedar crib; 950mm average face log diameter; 20mm
	Tie-backs	3	Town side: cedar tiebacks, 550mm average diameter; 10mm sap rot, ends
	Caps or Sills	6	
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	6	
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	6	No lashing or steel pins.
	Fill	5	Town side downstream corner has been heavily undermined resulting in a
Riprap	5	Large angular boulders present from the inlet to the center of the crib; poo	
Overall	5	Based on the condition of the bush side downstream crib corner.	
APPROACHES	4	Both approaches are located on horizontal curves; bush side approach ha	

PRESENT WATER LEVEL (m):	0.30	PRESENT WATER CLEARANCE	1.80	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
						Based on the condition of both abutments and observed high water mark, scour and high water hazards exists for this structure.

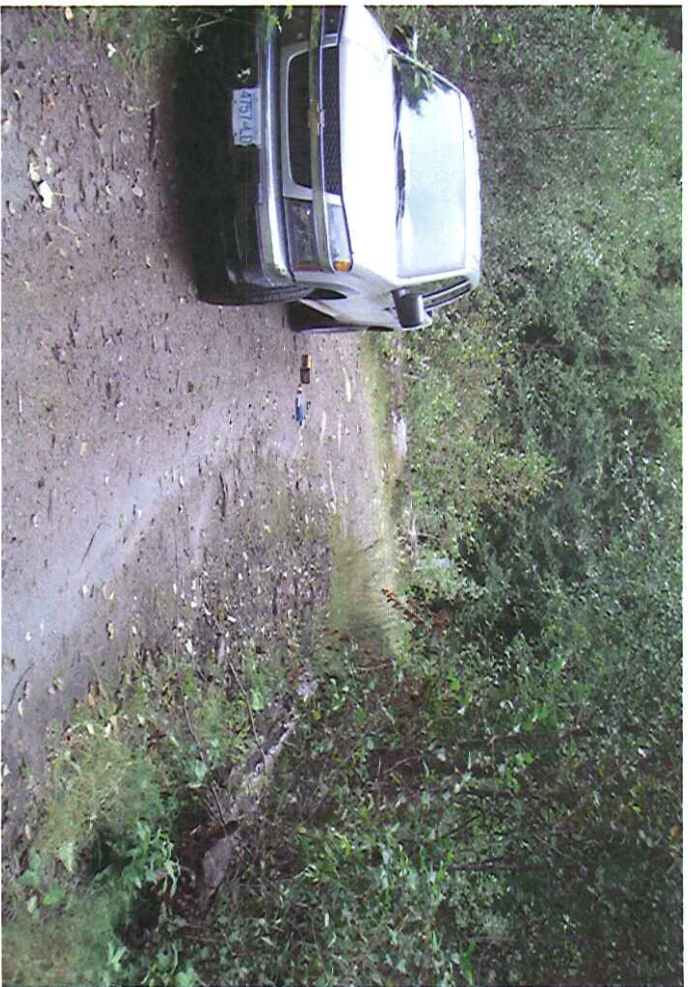
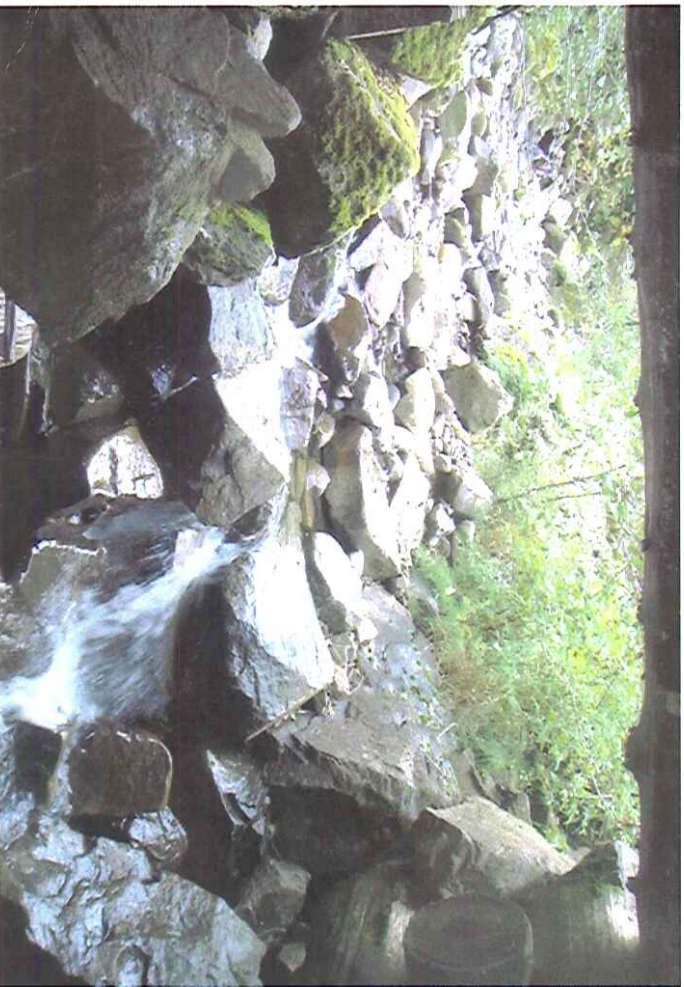
HAZARDS: High Water Scour

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	
		Replace structure.

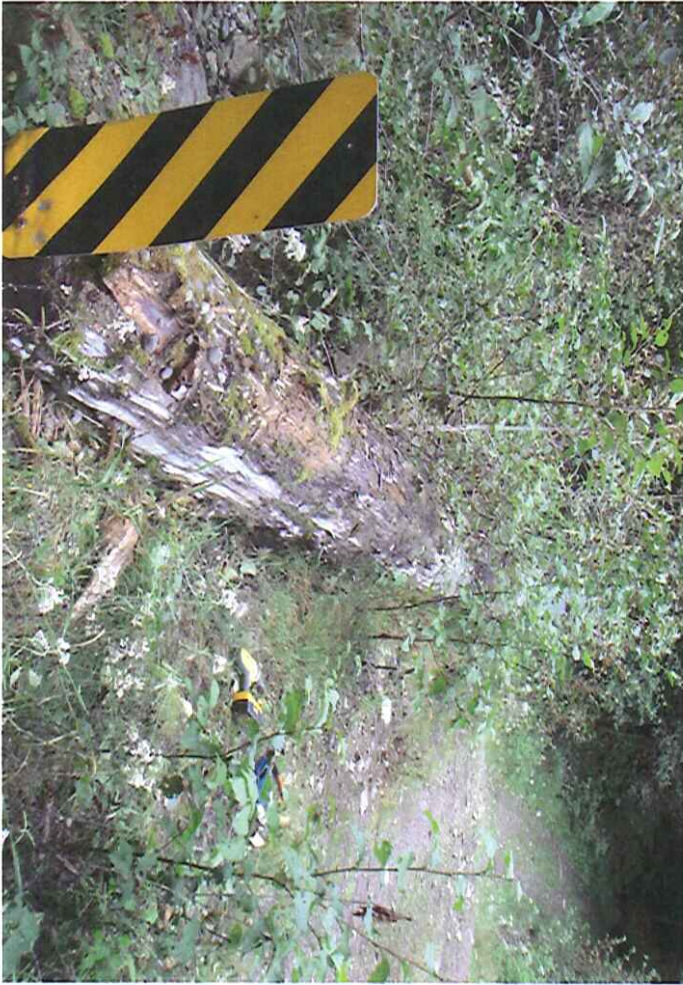
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	11	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	10 T
SUGGESTED REPLACEMENT:		at new load rating:		at original design load			
Comments:		NAD:		GPS:		anti:	

The overall condition of this structure is poor. It appears that this structure does not meet the hydrological requirements of the drainage area; we recommend this structure be replaced in the near future. **STRONGLY RECOMMEND REPLACEMENT. NEW LOAD RATING IS 5 TONNES.**

INSPECTOR	K. MacDonald	DATE SIGNED:	26-Sep-07	NEW LOAD RATING tonnes:	5
REVIEWED AND NOTED BY:	D. ROBEK, P. Eng.	RN DATE SIGNED:	Nov. 20 - 2008		







Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1600mm

Structure Number: Forest Service Road:

CK-2004

Anderson River

Km:

1.00

Page:

1

Of:

1

Crossing:

Six Creek

District

Chilliwack

Project Number:

8074.01

Date of this
Inspection:

M: 09

Y: 2007

Date of Next
Inspection:

M: 09

Y: 2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	4	Partialaly blocked by a boulder. Town side of inlet damage	Remarks
Outlet	4	Deformation caused by poor backfill (CK-2004-a6). Invert	Remarks
Bolts	6		Remarks
Connections	3	80mm gap between culvert sections at the roof, no fill exp	Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	4500mm fill over culvert.	Remarks
Riprap	3	Inlet embankment constructed at a 0.5:1 slope, well place	Remarks
Road Approaches	3	Located on horizontal curve.	Remarks
Overall	4		Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.50	ESTIMATED HIGH WATER LEVEL (m):	0.6	HAZARD(S) DESCRIPTION:
HAZARDS						
					None	

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	Remove debris a bed load at inlet.
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN: 8.00
		Narrow Structure Signs? No
		PRESENT POSTED RATING tonnes: 41

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

RETAIN PRESENT LOAD RATING OF 45 OR 41 TONNES

INSPECTOR

M. Spence

DATE SIGNED:

26-Sep-07

NAD:

REVIEWED AND NOTED BY:

D. Robek, P. Eng.

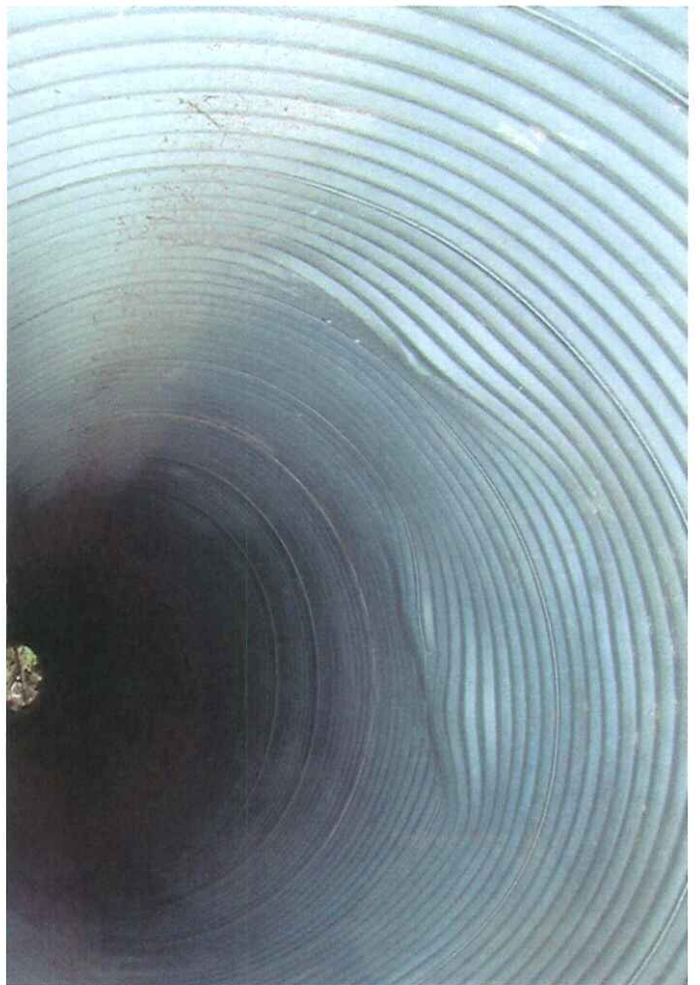
RN DATE SIGNED:

Nov.-08

NEW LOAD RATING tonnes:

GPS





Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2800mm

Structure Number: Forest Service Road:

CK-2005

Anderson Creek

Km:

2.70

Page:

1

Of:

1

Crossing:

Gilt Creek

District

Chilliwack

Project Number:

8074.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

1985

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION	Remarks
Inlet	2	
Outlet	4	Outlet damaged due to embankment collapse (CK-2005-a)
Bolts	6	
Connections	4	No collar present; 80mm gap between culvert sections; sh
Roof	3	
Floor	3	Minor staining at normal water level.
Side Walls	3	
Baffles	6	
Trash Rack	6	
Wing / Head Walls	6	
Coating	3	Galvanized.
Cover / Fill	3	5000 mm gravel cover.
Riprap	4	Overstepped (1/1), collapse of downstream embankme
Road Approaches	2	Located on a wide horizontal curve.
Overall	3	

PRESENT WATER LEVEL	0.10	PRESENT WATER CLEARANCE (m):	2.70	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
HAZARDS					None	

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
Professional Inspection Required?	No	Stabalize downstream embankment.	
As-Builts Checked?		NUMBER OF PICTURES TAKEN:	6.00
		Narrow Structure Signs?	PRESENT POSTED RATING tonnes: 41
SUGGESTED REPLACEMENT DATE			
at new load rating:		at original design load:	
Comments:			

The overall condition of the structure is fair.

RETAIN PRESENT LOAD RATING OF L-45 OR 41 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED: 26-Sep-07

NAD:

REVIEWED AND NOTED BY:

D. Robek, P.Eng.

RN DATE SIGNED: Nov. 20-08

NEW LOAD RATING tonnes:

GPS





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

CK-2007

Anderson River 07

YEAR BUILT:

Km:

0.10

Page: Of:

1 1

Crossing:

Anderson River

District

Chilliwack

Span:

26.75c/c

SBFEP/FRM:

BCTS

Project Number:

8074.07

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 1

Stream Classification:

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	3	80mm thick, vary in width, untreated fir planks.	Remarks
	Structural Decking	3	90mm x 300mm treated fir planks.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	3	200mm x 250mm treated fir; 400mm spacing c/c.	Remarks
	Nails	3		Remarks
	Curbs and Blocks	4	300mm x 300mm untreated fir curbs; shell thickness varies from 50mm to 100mm	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3		Remarks
	Delineators	3	All delineators present, shot.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 6 log high cedar crib retaining wall; 150mm settling at upstream corner	Remarks
	Tie-backs	3	Town side: 550mm avearge diameter; tieback ends checked and starting to split.	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Weathering steel "H" cap.	Remarks
	Piles or Posts	3	4 Weathering steel "H" columns	Remarks
	Concrete	3	Cast in place concrete pads with "H" columns embeded; town side has scour dar	Remarks
	Bulkhead Planks	3	400mm cedar half log.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3	Weathering steel.	Remarks
	Hardware	6		Remarks
	Fill	4	Upstream corner of town side retaing wall has been undermined producing a 5.0m	Remarks
	Riprap	4	Town side upstream riprap has collapsed from the upstream corner to the center	Remarks
	Overall	4	Based on the condition of the town side upstream corner this structure is in poor	Remarks
APPROACHES	3		Both approaches are located on wide sweeping horizontal curves; guide logs are	Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	5.30	ESTIMATED HIGH WATER LEVEL (m):	2.5	HAZARD(S) DESCRIPTION:
HAZARDS:						Based on the colapse of the town side upstream corner riprap and subsequent undermining of the retaining wall and concret pad a scour hazard exists for this structure. Large woody debris jam immediately upstream of bridge (20m) has diverted flow towards town side abutment, consequently, there is also a debris hazard for Based on the collapse of the town side upstream corner riprap and undermining of the retaining wall and concrete pad a scour hazard exists for this structure. Large woody debris jam immediately upstream of bridge (20m) which has diverted flow towards town side abutment, consequently, there is also a debris hazard for this Based on the collapse of the town side upstream corner riprap and undermining of the retaining wall and concrete pad a scour hazard exists for this structure. Large woody debris jam immediately upstream of bridge (20m) which has diverted flow towards town side abutment, consequently, there is also a debris hazard for this structure (CK-2007-a15).

Repair Required?	Yes	Professional Inspection Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Replace curbs and blocks; repair scour damage to upstream retaining wall and concrete pad; place additional riprap at upstream corner of abutment.

STRUCTURE	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 6 log high cedar crib retaining wall; 150mm settling at upstream corner	Remarks
	Tie-backs	3	Town side: 550mm avearge diameter; tieback ends checked and starting to split.	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Weathering steel "H" cap.	Remarks
	Piles or Posts	3	4 Weathering steel "H" columns	Remarks
	Concrete	3	Cast in place concrete pads with "H" columns embedded; town side has scour damage	Remarks
	Bulkhead Planks	3	400mm cedar half log.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3	Weathering steel.	Remarks
	Hardware	6		Remarks
	Fill	4	Upstream corner of town side retaining wall has been undermined producing a 5.0m	Remarks
	Riprap	4	Town side upstream riprap has collapsed from the upstream corner to the center	Remarks
	Overall	4	Based on the condition of the town side upstream corner this structure is in poor	Remarks
APPROACHES	3	Both approaches are located on wide sweeping horizontal curves; guide logs are	Remarks	

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	5.30	ESTIMATED HIGH WATER LEVEL (m):	2.5	HAZARD(S) DESCRIPTION:
						Based on the collapse of the town side upstream corner riprap and subsequent undermining of the retaining wall and concret pad a scour hazard exists for this structure. Large woody debris jam immediately upstream of bridge (20m) has diverted flow towards town side abutment, consequently, there is also a debris hazard for Based on the collapse of the town side upstream corner riprap and undermining of the retaining wall and concrete pad a scour hazard exists for this structure. Large woody debris jam immediately upstream of bridge (20m) which has diverted flow towards town side abutment, consequently, there is also a debris hazard for this Based on the collapse of the town side upstream corner riprap and undermining of the retaining wall and concrete pad a scour hazard exists for this structure. Large woody debris jam immediately upstream of bridge (20m) which has diverted flow towards town side abutment, consequently, there is also a debris hazard for this structure (CK-2007-a15).
HAZARDS:		Debris	Scour			

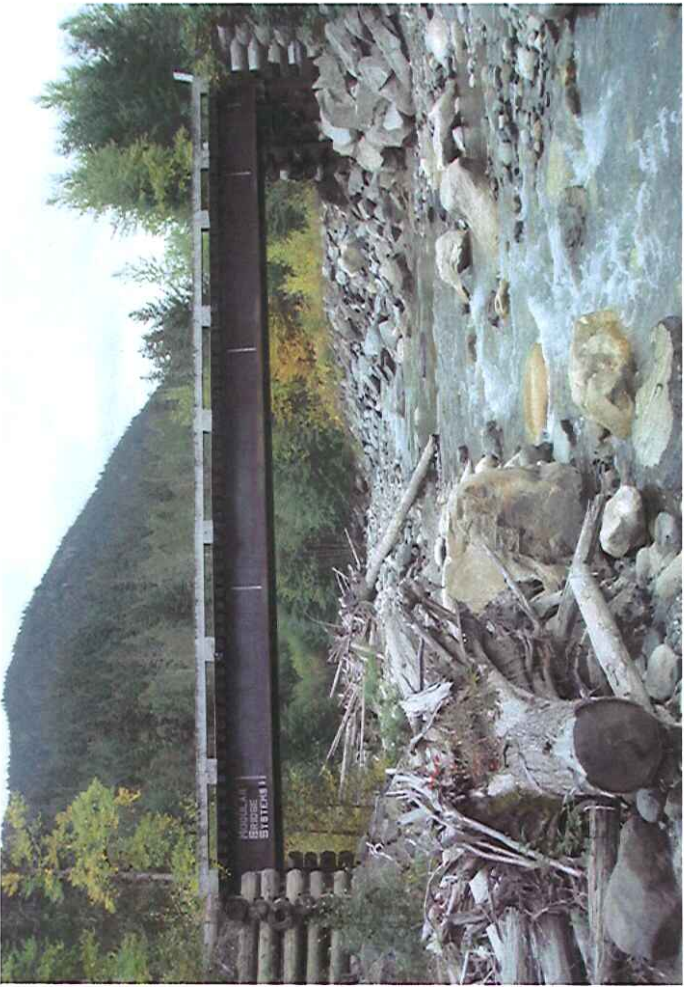
Repair Required?	Yes	Professional Inspection Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
				Replace curbs and blocks; repair scour damage to upstream retaining wall and concrete pad; place additional riprap at upstream corner of abutment.			
AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	19	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	41
						SUGGESTED REPLACEMENT DATE	
						at new load rating:	
						at original design load	
Comments:	NEW LOAD RATING tonnes:		NAD:		GPS		

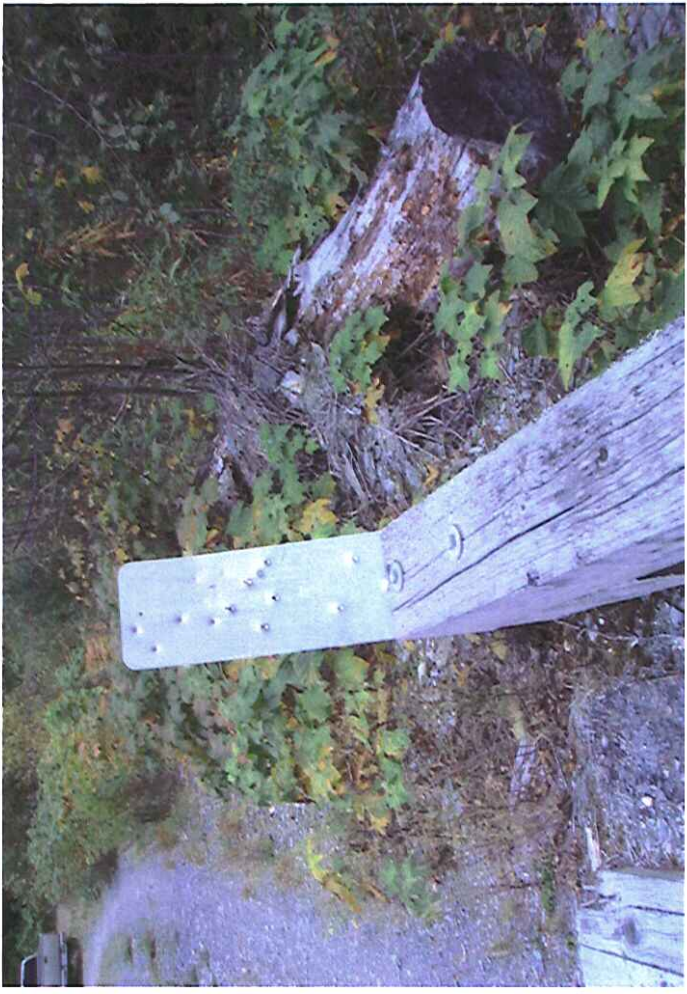
The current condition of this structure is fair. Consider repalcing the guide logs at both approaches, and removing upstream debris jam.

PRESENT LOAD RATING OF 41 TONNES TO CONTINUE, SUBJECT TO CARRYING OUT SCOUR DAMAGE REPAIR.

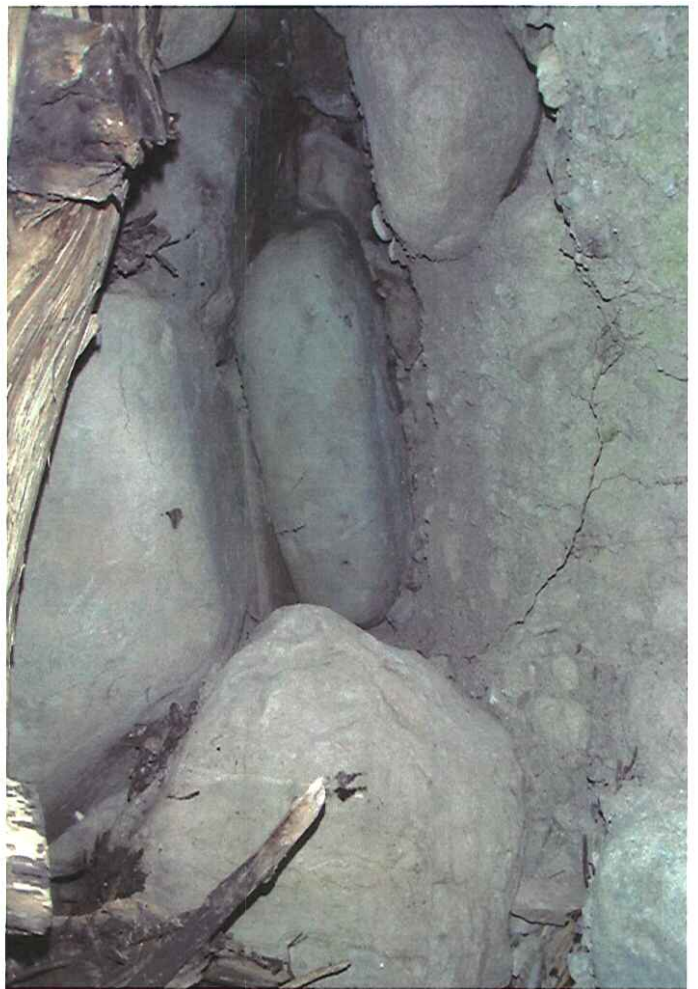
INSPECTOR: K.MacDonald DATE SIGNED: 26-Sep-07 REVIEWED AND NOTED BY: D. ROSEK, P.Eng. SIGNED: *[Signature]*

Nov. 20. 2008











Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2008 Anderson River 07

0.30 1 1

Crossing: Side Creek District: Chilliwack Span: 4.6c/c SBFEP/FRM: BCTS Project Number: 8074.07

Date of this M: 09 Date of Next M: 09 YEAR BUILT: Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class: Semi Permanent Number of Spans: 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT	CONDITION	REMARKS
DECK		
Running Planks	6	500mm gravel deck. 500mm long x 100mm wide gap between upstream curb and
Ties	6	
Nails	6	
Curbs and Blocks	3	Top of curb log is 200mm above grade.
Delineators	3	All delineators present.

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				15		Stringer Comments	
	1				13											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	Diameter mm	470	420	310	330	350	340	310	390	350	380	360	400	420		
	Sap rot mm	230	10	10	10	10	10	10	20	20	20	20	10	20		
Species	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw			

	CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS	6	
PIERS		
Caps	6	
Piles or Posts	6	
Concrete	6	
Bracing or Sheat	6	
Cribs	6	
Hardware	6	
Riprap	6	
Overall	6	
ABUTMENTS		
Cribs	6	
Tie-backs	6	
Caps or Sills	5	900mm fir sill logs, 100mm thick shell
Piles or Posts	6	
Concrete	6	
Bulkhead Planks	6	
Wing Wall Planks	6	
Bracing	6	
Hardware	6	
Fill	4	Fill spilling through upstream curb log and stringers #1 into creek (SC-2008)
Riprap	6	No riprap present.
Overall	5	
APPROACHES	4	Brushed in.

PRESENT WATER LEVEL (m):	0.05	PRESENT WATER CLEARANCE	1.05	ESTIMATED HIGH WATER LEVEL (m):	0.4	HAZARD(S) DESCRIPTION:
						Debris jam at inlet. Raveling fill at outlet.

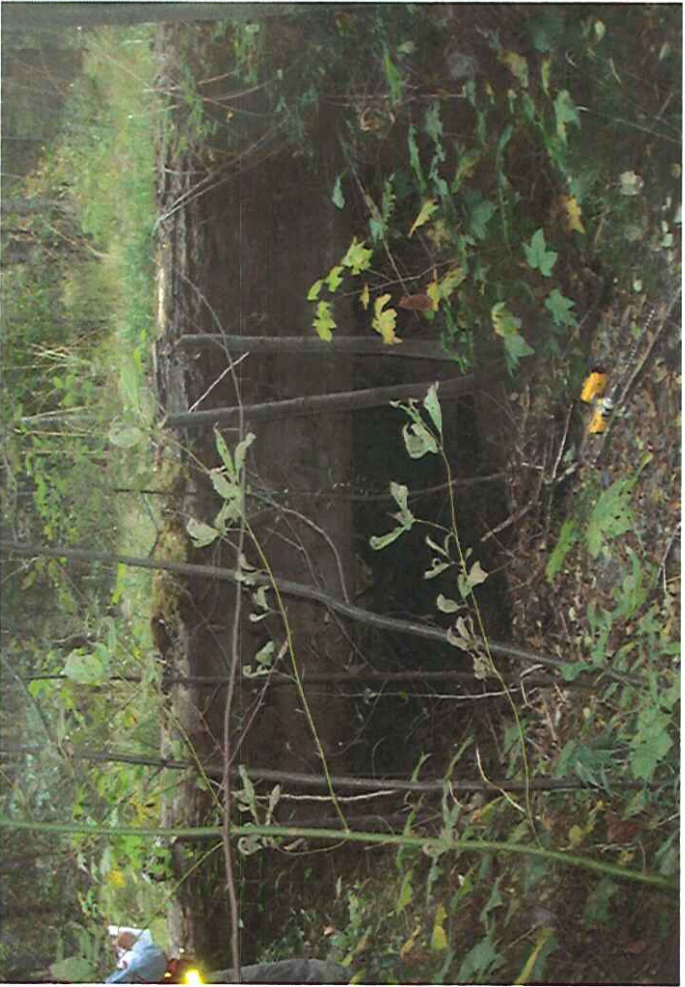
HAZARDS: Debris

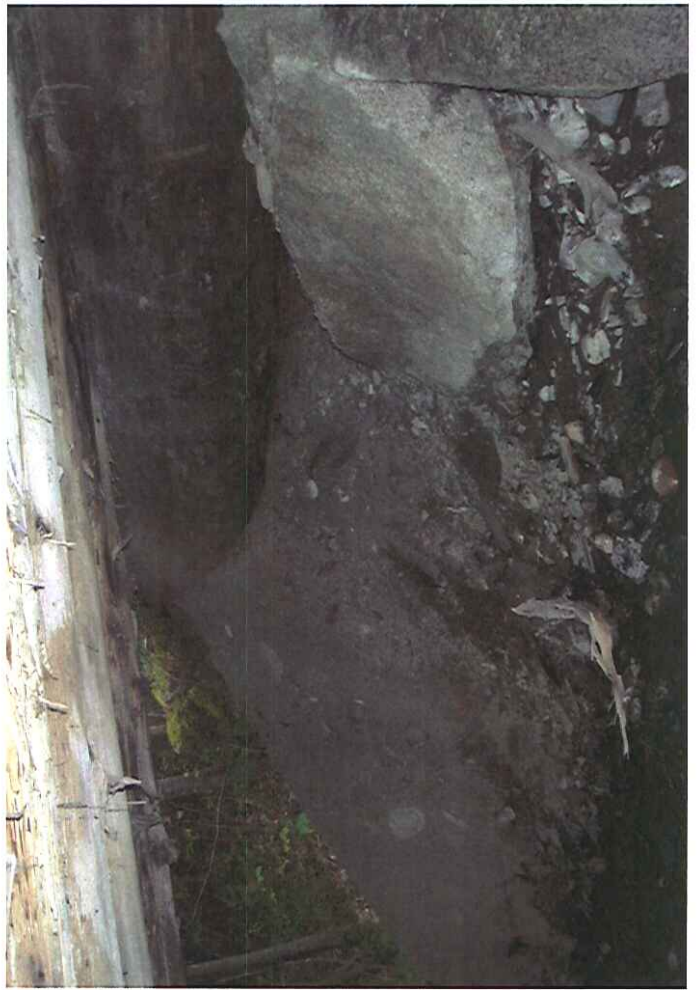
Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	Reposition upstream curb log in order to prevent fill from spilling into stream. Remove fill from inlet. Brush out road and delineators.

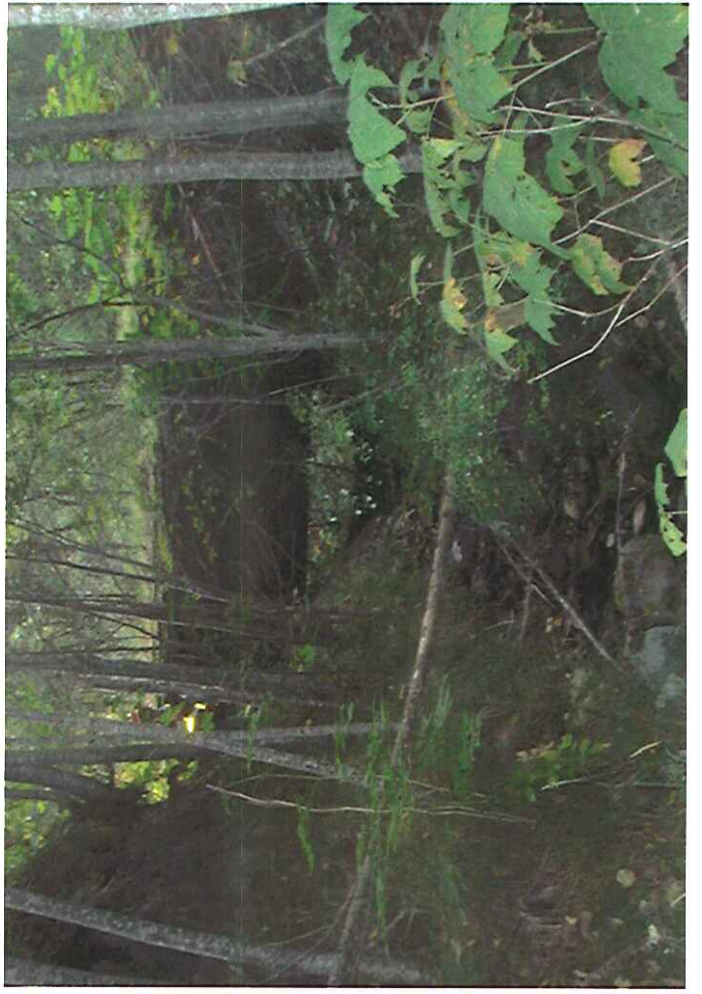
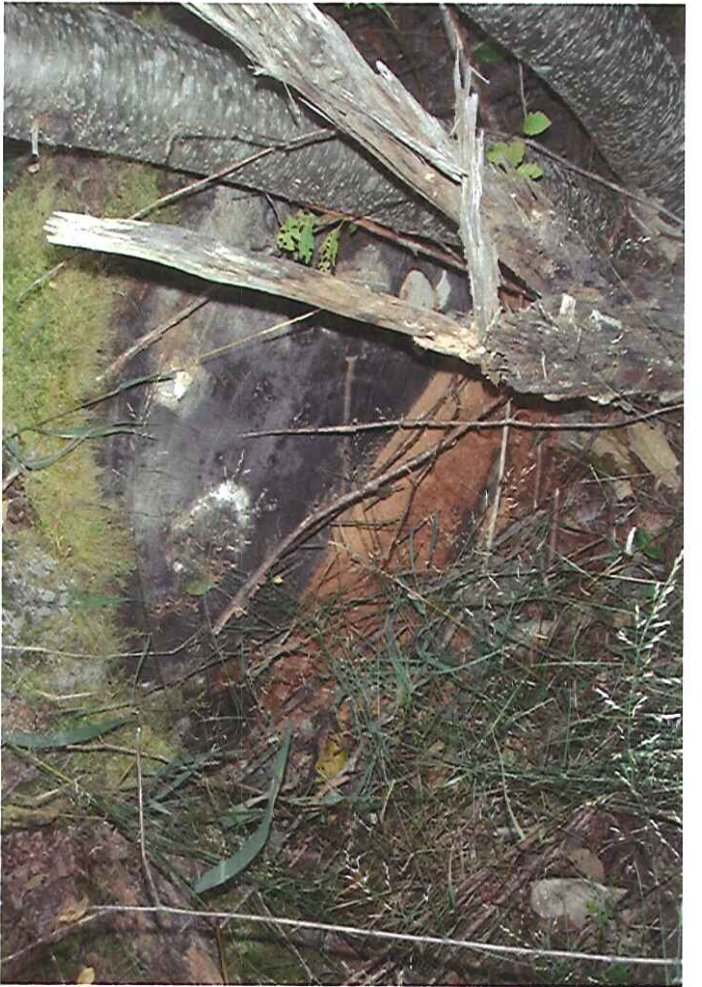
AS_BUILT CHECKED?	NUMBER OF PICTURES TAKEN: 11	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
SUGGESTED REPLACEMENT:	at new load rating:	at original design load		
Comments:	NAD:	GPS:		

Based on the condition of the sill logs, the overall condition of this structure is poor.
NEW LOAD RATING IS 446 OR 41 TONNES, SUBJECT TO REPLACING SILL LOGS, AND STRINGER #1.

INSPECTOR: Mark Spence DATE SIGNED: 26-Sep-07 NEW LOAD RATING tonnes: 41
REVIEWED AND NOTED BY: D. ROBEK, P. Eng. RN DATE SIGNED: Nov. 20-2008







Map / Location		STEEL / CONCRETE / GLULAM		Bridge Picture		Km:	Page:	Of:
Structure Number: CK-2016		Forest Service Road: Cantelon Creek		YEAR BUILT:		9.10	1	1
Crossing:		District: Chilliwack		Span: 7.63 c/c		SBFEP/FRM: BCTS	Project Number: 8124.01	
Date of this Inspection: M: 09 Y: 2007		Date of Next Inspection: M: 09 Y: 2009		BRIDGE CLAS: Permanent		Number of Spans: 1		

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	4	70mm x 280mm untreated fir with 30mm shell thickness. A 300mm x 300mm hole	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	4	200mm x 250mm untreated fir at 400mm c/c with 100mm of rot.	Remarks
	Nails	3		Remarks
	Curbs and Blocks	3	200mm x 200mm untreated fir with a 70mm shell thickness.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6	Not attached to girder.	Remarks
	Hardware	4		Remarks
	Delineators	5	Town side upstream delineator present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel; 4 girders.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Girders not attached to sill.	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	3 high cedar crib (600mm). Gaps between face logs, vary from 200mm to 700mm	Remarks
	Tie-backs	3	2 rows of 3 cedar tiebacks.	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	200mm x 200mm untreated fir timber sill.	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	4	2 high cedar log ballast wall with 20mm of sap rot.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3		Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	6	No riprap (CK-2016-a3).	Remarks
	Overall	3		Remarks
APPROACHES		4	Brushed in.	Remarks

PRESENT WATER LEVEL (m): 0.40	PRESENT WATER CLEARANCE: 1.40	ESTIMATED HIGH WATER LEVEL (m): 1.5	HAZARD(S) DESCRIPTION: Scouring noted at cribs
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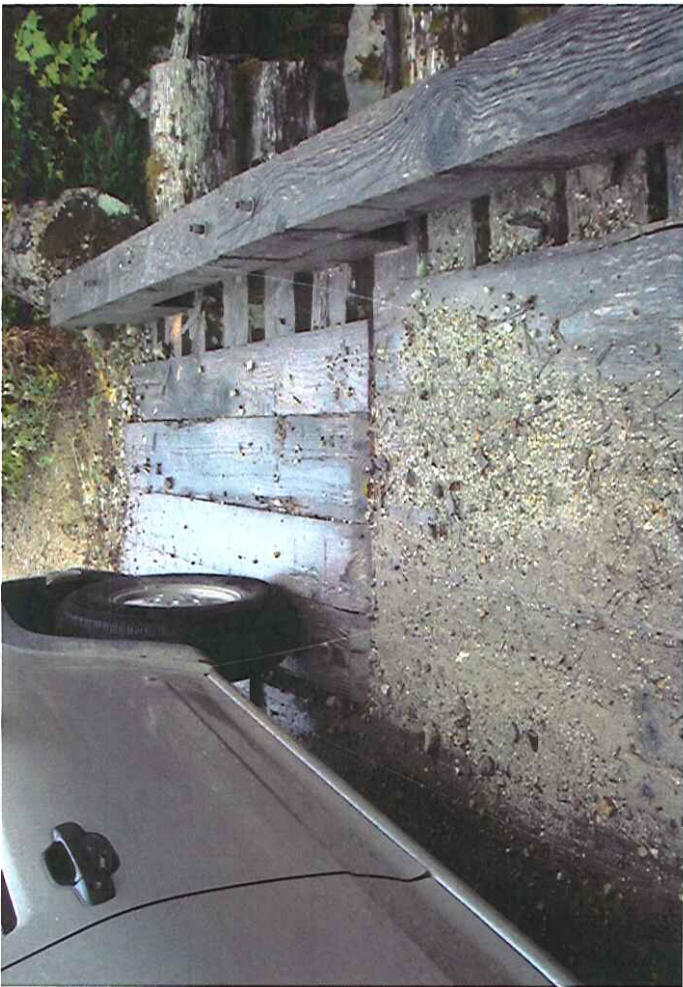
HAZARDS:	Scour	
Repair Required?	Yes	Professional Inspection Required?
REPAIR DESCRIPTIONS AND COST ESTIMATE: Replace ties and deck. Replace curbs and blocks. Replace missing delineators.		

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	8	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	
Comments:		NEW LOAD RATING tonnes:		NAD:		GPS			

Based on the condition of the ties and the overall condition of this structure is poor.

REPLACE TIES AND DECK. FOR NOW, CLOSE DOWN THE BRIDGE AND POST "X" LOAD RATING. ADVISE ALL USERS.

INSPECTOR: Mark Spence	DATE SIGNED: 27-Sep-07	REVIEWED AND NOTED BY: D. ROBER, P. E.	SIGNED: Nov. 20. 2008
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Map / Location		STEEL / CONCRETE / GLULAM		Bridge Picture		Km:	Page: Of:
Structure Number: CK-2047		Forest Service Road: Chehalis - Mystery		YEAR BUILT: 1989		11.90	1 1
Crossing: Mystery Creek		District: Chilliwack		Span: 16.66 c/c		SBFEP/FRM: BCTS	Project Number: 8241.11
Date of this Inspection: M: 10 Y: 2007		Date of Next Inspection: M: 10 Y: 2010		BRIDGE CLAS: Permanent		Number of Spans: 1	

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck, limited access to grout pockets due to fines accumula	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	1	250mm x 250mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	1		Remarks
	Delineators	2	All delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Town side downstream bearing pad buldging (CK-2047-a6). Columns located 1.5	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	Precast concrete ballast wall.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3	Limited access.	Remarks
	Hardware	6	No access.	Remarks
	Fill	6		Remarks
	Riprap	6	Bedrock canyon.	Remarks
	Overall	3		Remarks
APPROACHES	3		Potholed at approaches (CK-2047-a5). Bush side approach located on horizontal	Remarks

PRESENT WATER LEVEL (m):	0.60	PRESENT WATER CLEARANCE	6.90	ESTIMATED HIGH WATER LEVEL (m):	1.6	HAZARD(S) DESCRIPTION:
HAZARDS:					None	
Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
						Remove debris from deck.
AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	SUGGESTED REPLACEMENT DATE
				PRESENT POSTED RATING tonnes:	54	at new load rating:
				at original design load		
Comments:	NEW LOAD RATING tonnes:		NAD:		GPS	

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

PRESENT LOAD RATING OF 600 OR 54 TONNES TO CONTINUE.

INSPECTOR: K.MacDonald DATE SIGNED: 11-Oct-07 REVIEWED AND NOTED BY: D. ROISEL, P.Eng. SIGNED: Nov. 20 2008







Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2300 mm

Structure Number: Forest Service Road:

CK-2048

Chilliwack River

Km:

1.00

Page: Of:

1

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

5127.01

Date of this
Inspection:

M:

10

Y:

2007

Date of Next
Inspection:

M:

10

Y:

2010

BRIDGE CLASS
CULVERT

Year Built:

Number of

Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3	200mm drop at culvert inlet, small gravel beadload (CK-2048-a3, a4).	Remarks
Outlet	3	1100mm drop at culvert outlet (CK-2048-a3, a4).	Remarks
Bolts	3		Remarks
Connections	6		Remarks
Roof	3		Remarks
Floor	3	Moderate staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3		Remarks
Cover / Fill	3	800mm gravel cover.	Remarks
Riprap	3	Inlet riprap oversteepened, minor scour damage at town side.	Remarks
Road Approaches	3	Minor potholes.	Remarks
Overall	3		Remarks

PRESENT WATER LEVEL	0.30	PRESENT WATER CLEARANCE (m):	2.00	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
						Minor scour damage at inlet.

HAZARDS

		Scour	
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
		Grade approaches.	
Professional Inspection Required?	No		
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	8.00
		Narrow Structure Signs?	No
		PRESENT POSTED RATING tonnes:	N/A

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of the structure is fair.

RATED AT LGO OR 54 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED:

03-Oct-07

NAD:

REVIEWED AND NOTED BY:

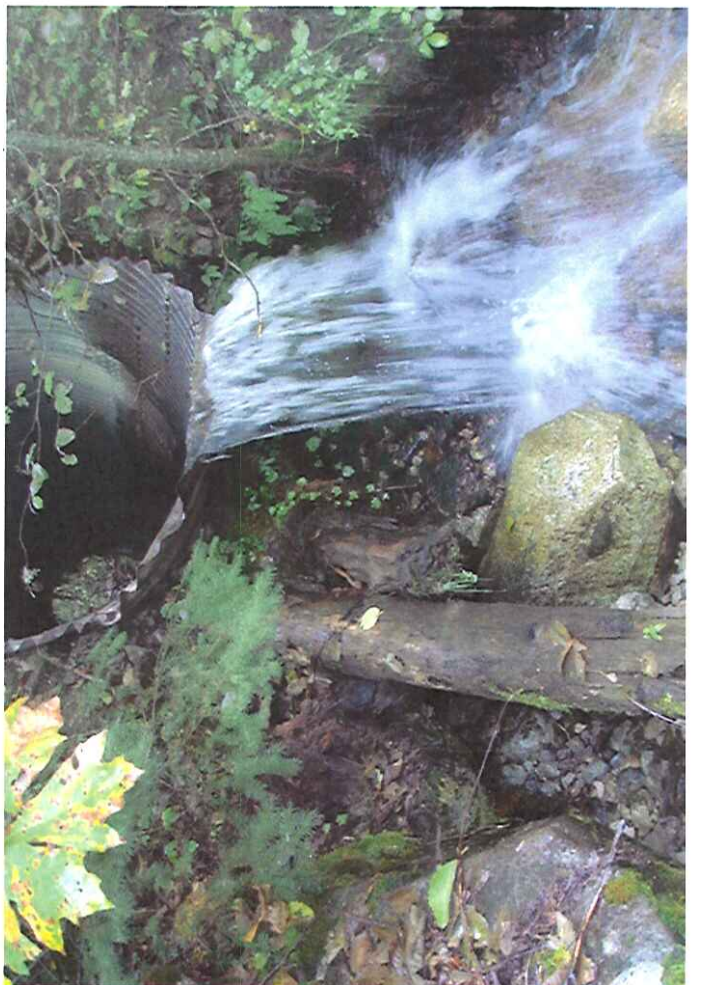
D. ROBEK, P. Eng

RN DATE SIGNED:

Nov. 20-08

NEW LOAD RATING tonnes:

GPS





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1600 mm

Structure Number: Forest Service Road:

CK-2049

Chilliwack River

Km:

1.50

Page: Of:

1

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

5127.01

Date of this
Inspection:M: 10
Y: 2007Date of Next
Inspection:M: 10
Y: 2010**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3	Undermining at town side inlet (100mm deep x 200mm h	Remarks
Outlet	3	Undermining at outlet (800mm deep x 800mm high). Outlet	Remarks
Bolts	3	One loose bolt.	Remarks
Connections	6		Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water levels.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	600mm gravel cover.	Remarks
Riprap	3		Remarks
Road Approaches	3		Remarks
Overall	3		Remarks

PRESENT
WATER
LEVEL

0.10

PRESENT
WATER
CLEARANCE (m):

1.59

ESTIMATED
HIGH WATER
LEVEL (m):

0.5

HAZARD(S) DESCRIPTION:

HAZARDS

Repair
Required

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional
Inspection
Required?

No

As-Builts
Checked?

No

NUMBER OF
PICTURES TAKEN:

6.00

Narrow Structure Signs?

No

PRESENT POSTED
RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

RATED AT 1.60 OR 54 TONNES.

INSPECTOR

K. MacDonald

DATE SIGNED:

04-Oct-07

NAD:

REVIEWED AND NOTED BY:

D. ROBEK, P. Eng.

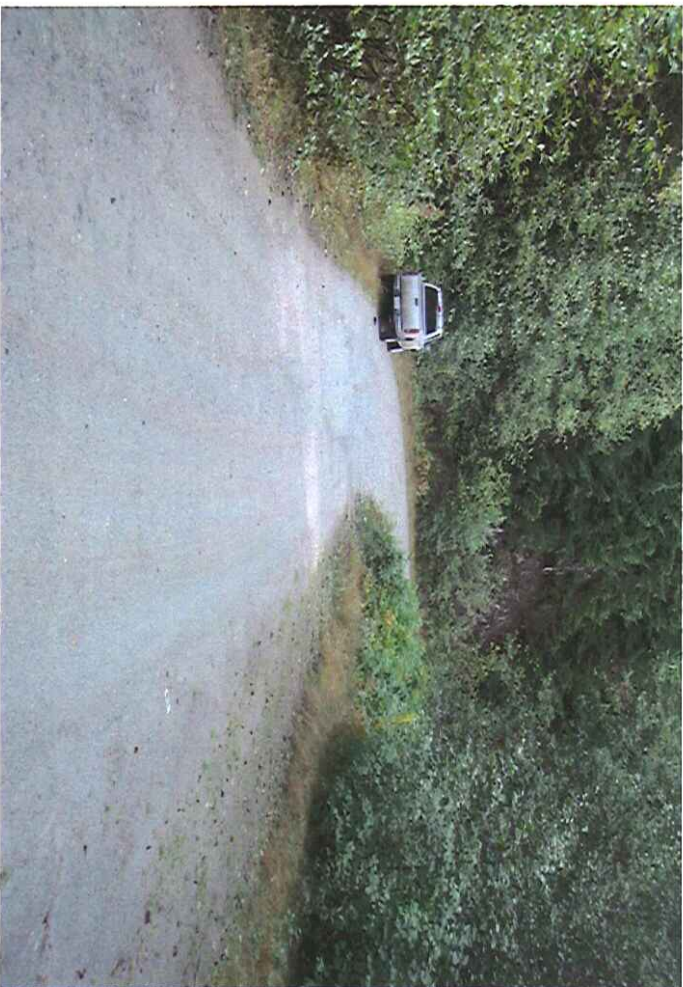
RN DATE SIGNED:

Nov. 20-08

NEW LOAD RATING tonnes:

GPS





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

CK-2061 Chilliwack- Little Tamihi Creek

YEAR BUILT: 1992

Km: 0.70

Page: Of: 1 1

Crossing:

Liumchen Creek

District

Chilliwack

Span:

25.55 c/c

SBFEP/FRM:

BCTS

Project Number:

5127.04

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck, limited access to grout pockets due to fines accumula	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	"w" beam galvanized metal curb.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3		Remarks
	Hardware	3		Remarks
	Delineators	4	Bush side downstream delineator missing.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Concrete girder with steel flanges.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3		Remarks
	Piles or Posts	3	Spread footings.	Remarks
	Concrete	3		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3	Limited access, based on visual inspection.	Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	3	Bush side riprap placed at a 1:1 slope.	Remarks
	Overall	3		Remarks
APPROACHES		4	Both approaches are heavily potholed and brushed in (CK-2061-a9).	Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	3.60	ESTIMATED HIGH WATER LEVEL (m):	2.5	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No
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REPAIR DESCRIPTIONS AND COST ESTIMATE:

Install bush side downstream delineator. Grade and brush out approaches.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	13	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	54	SUGGESTED REPLACEMENT DATE	
						at new load rating:			
						at original design load			

Comments: NEW LOAD RATING tonnes: NAD: GPS

The structure is in fair condition. Consider installing narrow structure signs at approaches.

RETAIN PRESENT LOAD RATING OF L-60 OR 54 TONNES.

INSPECTOR Mark Spence DATE SIGNED: 02-Oct-07 REVIEWED AND NOTED BY: D. Robek, P. Eng. SIGNED: Nov. 20-2008

Map / Location		STEEL / CONCRETE / GLULAM		Bridge Picture		Km:	Page: Of:	
Structure Number: Forest Service Road:		YEAR BUILT:		0.70		1		1
CK-2061		Chilliwack- Little Tamihi Creek		District: Chilliwack		Span: 25.55 c/c		SBFEP/FRM: BCTS
Crossing: Liumchen Creek		Project Number: 5127.04		BRIDGE CLAS: Permanent		Number of Spans: 1		
Date of this Inspection: M: 10 Y: 2007		Date of Next Inspection: M: 10 Y: 2010						

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

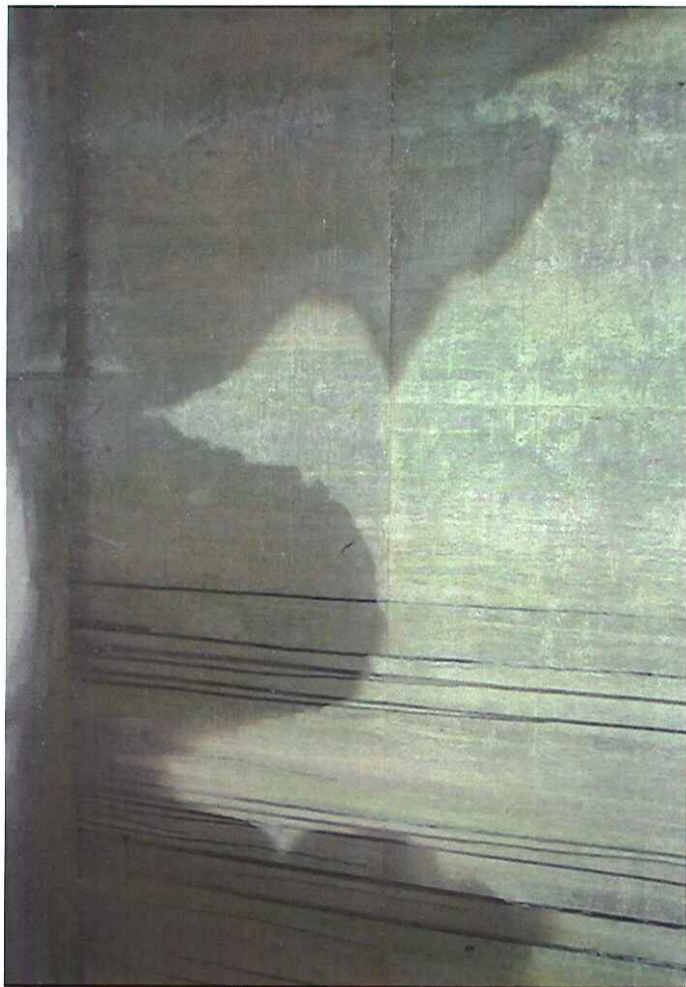
BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck, limited access to grout pockets due to fines accumula	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	"w" beam galvanized metal curb.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3		Remarks
	Hardware	3		Remarks
	Delineators	4	Bush side downstream delineator missing.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Concrete girder with steel flanges.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3		Remarks
	Piles or Posts	3	Spread footings.	Remarks
	Concrete	3		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3	Limited access, based on visual inspection.	Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	3	Bush side riprap placed at a 1:1 slope.	Remarks
	Overall	3		Remarks
APPROACHES		4	Both approaches are heavily potholed and brushed in (CK-2061-a9).	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	0.00	ESTIMATED HIGH WATER LEVEL (m):	0	HAZARD(S) DESCRIPTION:
HAZARDS:						
Repair Required?		Professional Inspection Required?		REPAIR DESCRIPTIONS AND COST ESTIMATE:		
AS_BUILT CHECKED?		NUMBER OF PICTURES TAKEN:	0	NARROW STRUCTURE SIGNS?		SUGGESTED REPLACEMENT DATE
				PRESENT POSTED RATING tonnes:		at new load rating:
						at original design load
Comments:		NEW LOAD RATING tonnes:		NAD:	GPS	

INSPECTOR	Mark Spence	DATE SIGNED:	02-Oct-07	REVIEWED AND NOTED BY:	SIGNED:
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Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2064 Chilliwack-Tamih Creek

YEAR BUILT: 1991

6.30

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Tamih Creek

Chilliwack

26.7 c/c

BCTS

5127.06

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck; limited access to grout pockets due to gravel accumu	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	5	250mm x250mm untreated fir curbs, loose with a 50mm shell remaining.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	6		Remarks
	Delineators	4	All present but in poor condition.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bearings bulging (CK-2064-a7 to a10).	Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	3	Concrete ballast wall spalling at wheel path at both approaches (CK-2064-a3, a4)	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	6		Remarks
	Fill	5	Town side abutment toe has eroded due to collapse of riprap (CK-2064-a16); er	Remarks
	Riprap	5	Town side riprap has collapsed; Bush side riprap fair.	Remarks
	Overall	5		Remarks
APPROACHES	4		Approaches are potholed and brushed in (CK-2064-a6); town side approach is lo	Remarks

NOTE: MONITOR TOWN SIDE ABUTMENT

PRESENT WATER LEVEL (m):	1.60	PRESENT WATER CLEARANCE	6.20	ESTIMATED HIGH WATER LEVEL (m):	3	HAZARD(S) DESCRIPTION:
Based on the condition of the town side abutment a scour hazard exists for this structure.						

HAZARDS:		Scour		
Repair Required?	Yes	Professional Inspection Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Repair town side riprap; replace delineators; replace curbs; brush out approaches; clear road debris accumulations off of edges of panels to prevent standing water on deck.

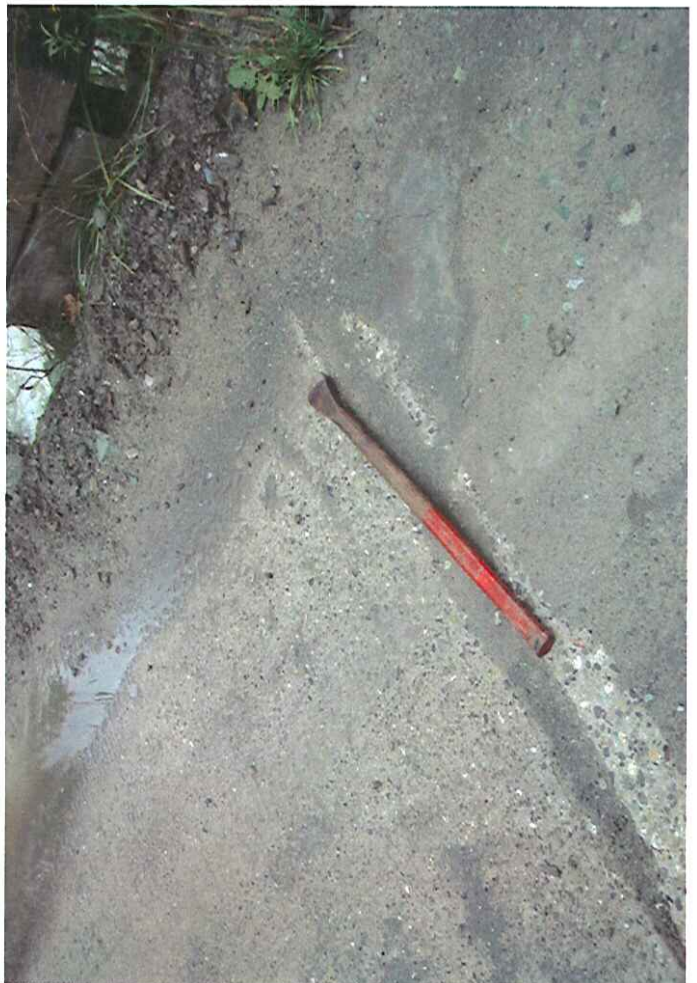
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	20	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	68	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	
Comments:	NEW LOAD RATING tonnes:			NAD:	GPS				

The overall condition of this structure is very poor based on the collapsed town side riprap and close proximity of the footings to the eroded fill slope. Monitor town side abutment after large rainfall events and routinely during hauling until repairs have been made. Consider installing narrow structure signs at approaches.

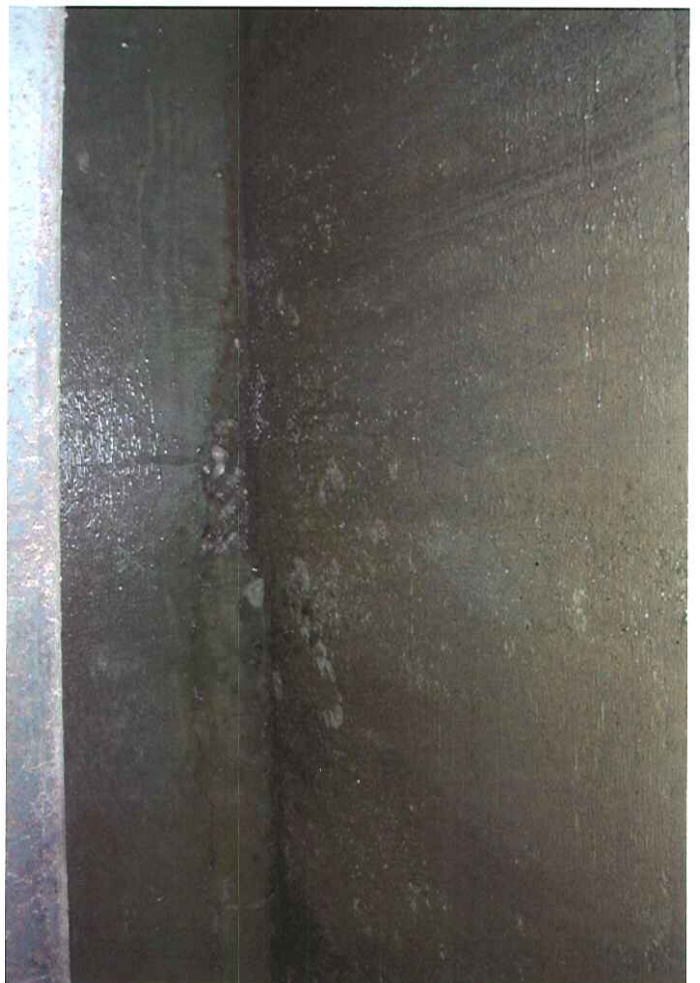
PRESENT LOAD RATING OF 175 OR 68 TONNES TO CONTINUE.

P. ROSE, P. Eng.

Nov. 20-2008











Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

CK-2065

Chilliwack- Tamhi Creek

Km:

8.30

Page:

1

Of:

1

Crossing:

Fumerol Creek

District

Chilliwack

Span:

15.7 c/c

SBFEP/FRM:

BCTS

Project Number:

5127.06

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	3	100mm x 300mm untreated fir. Gravel accumulations on deck water pooling on de	Remarks
	Ties	3	200mm x 200mm untreated fir.	Remarks
	Nails	3	Raised nail heads (CK-2065-a3).	Remarks
	Curbs and Blocks	3	800mm fir logs as curbs.	Remarks
	Delineators	4	All present, but damaged (CK-2065-a14).	Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				100		Stringer Comments
	1				7										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Diameter mm	500	690	620	640	660	560									Stringer #1 is cedar and all the rest is fir. Stringer #3 has a 200mm thick shell remaining.
Rot mm	250	0	0	300	0	40									
Spacing mm	200	140	300	200	180	400									

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		4	4 needle beams in total; the shims are no longer functioning on needle beam #3 (n	
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Caps or Sills	3	Town side: 400mm cedar log cap on steel columns, unable to verify meth	Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	6	Concrete pad on bush side, no access.	Remarks
	Bulkhead Planks	6	No ballast wall present (CK-2065-a7 to a9).	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	6		Remarks
	Fill	4	Ravelling through abutments.	Remarks
	Riprap	4	Town side: Riprap is over steepened and has collapsed (CK-a5, a11 to a1	Remarks
	Overall	4		Remarks
APPROACHES		3	Located on a horizontal and vertical curve.	Remarks

PRESENT WATER LEVEL (m):	0.80	PRESENT WATER CLEARANCE	4.30	ESTIMATED HIGH WATER LEVEL (m):	2.3
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HAZARD(S) DESCRIPTION:

Collapse and scour damage of town side abutment.

HAZARDS: Scour

Repair Required?	Yes
Professional Inspection Required?	Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Verify log cap attachment at both abutments.

AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	18	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	
SUGGESTED REPLACEMENT:		at new load rating:		at original design load			
Comments:		NAD:		GPS:			

Based on the condition of the town side abutment this structure is in poor condition. Consider installing narrow structure signs at approaches.

STRONGLY RECOMMEND REPLACEMENT OF STRUCTURE. UNTIL THEN, CLOSE DOWN THE ACCESS. ADVISE ALL USERS.

INSPECTOR Mark Spence DATE SIGNED: 02-Oct-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: D. Forster, P. Eng. RN DATE SIGNED: Nov. 20. 2008











Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

CK-2066

Chilliwick - Tamih Creek

Km:

10.30

Page:

1

Of:

1

Crossing:

Stapley Creek

District

Chilliwick

Span:

6.3 c/c

SBFEP/FRM:

BCTS

Project Number:

5127.06

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	1000mm clean angular rock with 100mm gravel surfacing.	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	4	3000mm long x 400mm wide gap between the downstream curb and road surface	Remarks
	Delineators	5	No delineators present.	Remarks

STRINGERS	Span Number:		Number of Stringers:		Average Stringer Rot Depth		0		Stringer Comments					
	1		10 est.		For Wood Culvert (mm):									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Diameter mm	600								950				
	Rot mm	0								0				
Species	Cw									Cw				
Only outside logs inspected due to limited access.														

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		6		
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Caps or Sills	3	Town side / Woods side: 900mm cedar sill logs.	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6		Remarks
	Fill	3	Retaining fill adequately.	Remarks
	Riprap	6	No access.	Remarks
	Overall	3		Remarks
APPROACHES		3		Remarks

PRESENT WATER LEVEL (m):	0.40	PRESENT WATER CLEARANCE	0.30	ESTIMATED HIGH WATER LEVEL (m):	1.5
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HAZARD(S) DESCRIPTION:

The structure was nearly at full capacity on day of inspection (V2066-u).

HAZARDS: High Water Debris Scour

Repair Required?	Yes
Professional Inspection Required?	No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Install delineators, and repair downstream curb.

AS BUILT CHECKED?	NUMBER OF PICTURES TAKEN: 5	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
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SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the condition of the exterior stringers (no acces to interior stringers) the overall condition of this structure is fair. That said, this structure does not meet the hydrological requirements of the drainage area; we recommend this structure be replaced within the near future. Monitor for scour and water damage and debris acumulations.

PERMANENT STRUCTURE. 60 TONNES OR L75. RECOMMEND CLOSURE AND REPLACEMENT WITH

INSPECTOR K. MacDonald DATE SIGNED: 01-Oct-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: D. FOREK, P. Eng. RN DATE SIGNED: Nov. 20-2008





Map / Location		STEEL / CONCRETE / GLULAM		Bridge Picture		Km:	Page: Of:
Structure Number: Forest Service Road:		YEAR BUILT: 1984		Km: 6.10		1 1	
CK-2068 Chilliwack-Slesse Creek		District: Chilliwack		Span: 29.9 c/c		SBFEP/FRM: BCTS	
Crossing: Slesse Creek		Project Number: 5127.07		Number of Spans: 1			
Date of this Inspection: M: 10 Y: 2007		Date of Next Inspection: M: 10 Y: 2009		BRIDGE CLAS: Permanent		Stream Classification:	

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT			CONDITION	REMARKS	Remarks
DECK	Running Planks	3	100mm x 250mm untreated fir running planks		Remarks
	Structural Decking	4	100mm x 250mm untreated fir planks, poor condition several rotten (CK-2068-a5)		Remarks
	Concrete Deck	6			Remarks
	Gravel Surfacing	6			Remarks
	Ties	4	200mm x 250mm untreated fir; 400mm spacing c/c; 1 in 2 rotten at girder contact		Remarks
	Nails	3			Remarks
	Curbs and Blocks	4	250mm x 250mm untreated fir 50mm shell remaining on average (CK-2068-a3 to		Remarks
	Hand Rails	6			Remarks
	Deck to Girder Bolt	3			Remarks
	Hardware	3			Remarks
	Delineators	4	All present, bush side upstream delineator damaged (CK-2068-a3).		Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Painted steel, initial stages of rust.		Remarks
	Diaphragms	3	Painted steel, initial stages of rust.		Remarks
	Bracing	3	Painted steel, initial stages of rust.		Remarks
	Trussing	6			Remarks
	Hardware	3	Painted steel, initial stages of rust.		Remarks
PIERS	Caps	6			
	Piles or Posts	6			
	Concrete	6			
	Bracing or Sheat	6			
	Cribs	6			
	Hardware	6			
	Riprap	6			
	Overall	6			
ABUTMENTS	Cribs	3	Town side: 6 log high cedar crib; 700mm average diameter; 10mm sap rot; no heart rot; top upstream		Remarks
	Tie-backs	4	Town side: 450mm average diameter; 10mm sap rot; no heart rot; top upstream		Remarks
	Bin Walls	6			
	Caps or Sills	3	Town side: 600mm cedar sill log, 10mm sap rot, no heart rot; set back 1.5m from		Remarks
	Piles or Posts	6			Remarks
	Concrete	6			Remarks
	Bulkhead Planks	4	200mm x 250mm untreated fir planks; 1 in 2 rotten; still retaining backfill (CK-2068-a3)		Remarks
	Wing Wall Planks	6			Remarks
	Bracing	6			Remarks
	Hardware	4	Lashing corroded and loose.		Remarks
	Fill	3	Retaining fill adequately		Remarks
	Riprap	4	Town side: Riprap ties into upstream corner of crib at 1:1 slope, well placed; pip		Remarks
	Overall	4	Town side approach heavily potholed and brushed in with alder.		Remarks
	Approaches	4			

PRESENT WATER LEVEL (m): 0.70	PRESENT WATER CLEARANCE: 3.20	ESTIMATED HIGH WATER LEVEL (m): 2.9	HAZARD(S) DESCRIPTION: Collapse of bush side downstream riprap indicates a scour hazard.
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HAZARDS:	Scour	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Repair Required? Yes	Professional Inspection Required?	Repair collapsed sections of bush side downstream riprap with adequately sized, well-graded riprap; replace ties, decking and curb; brush out town side approaches; replace bush side upstream delineator; grade bush side approach.

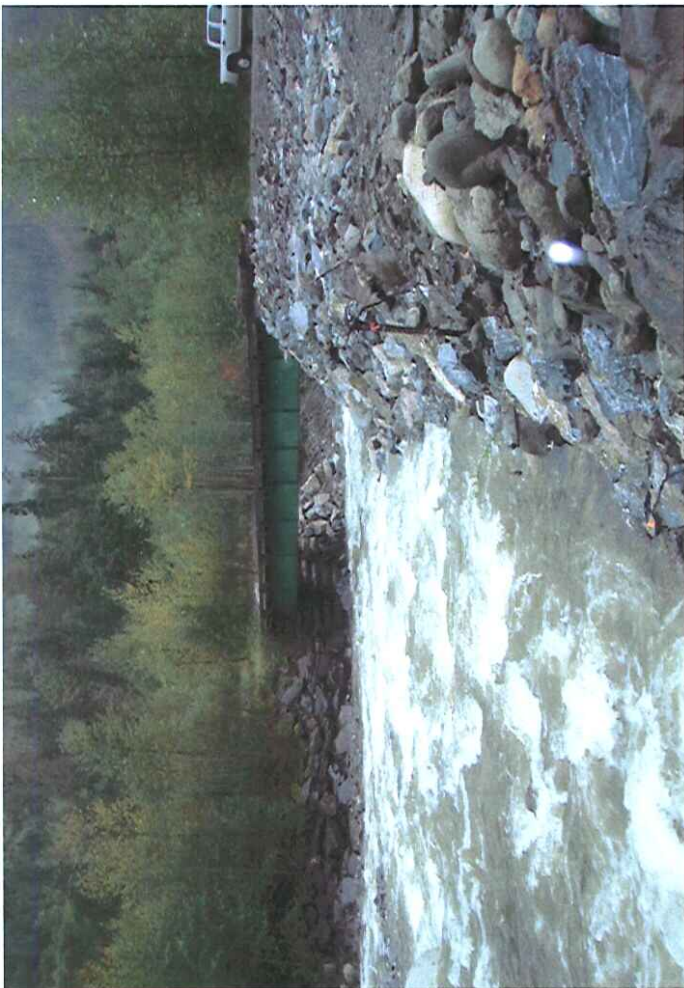
AS BUILT CHECKED? No	NUMBER OF PICTURES TAKEN: 24	NARROW STRUCTURE SIGNS? No	PRESENT POSTED RATING tonnes:	SUGGESTED REPLACEMENT DATE:
				at new load rating:
				at original design load:

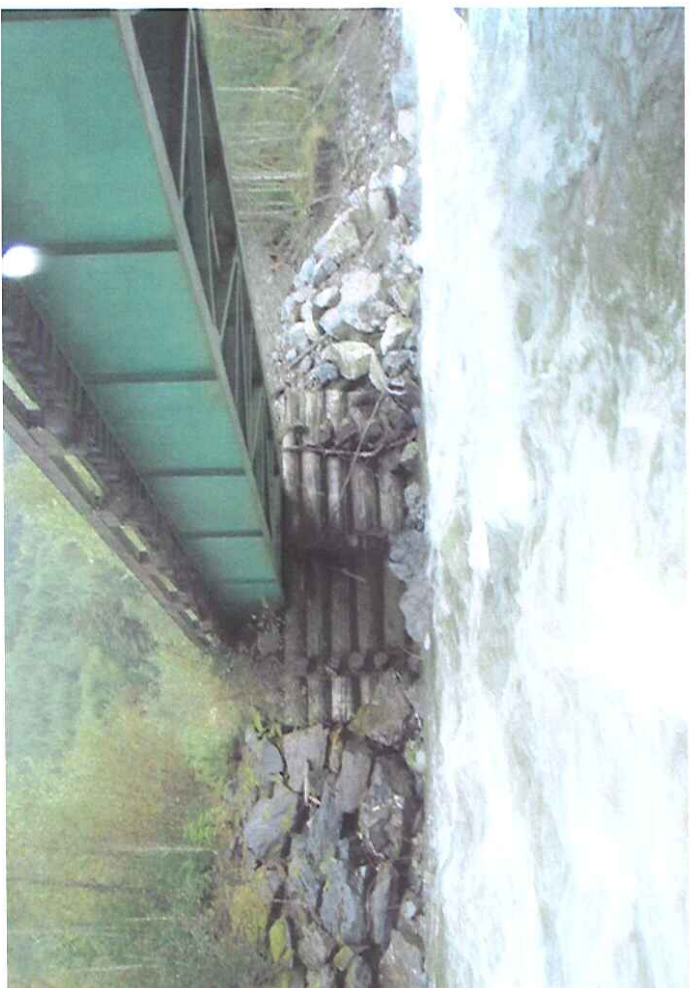
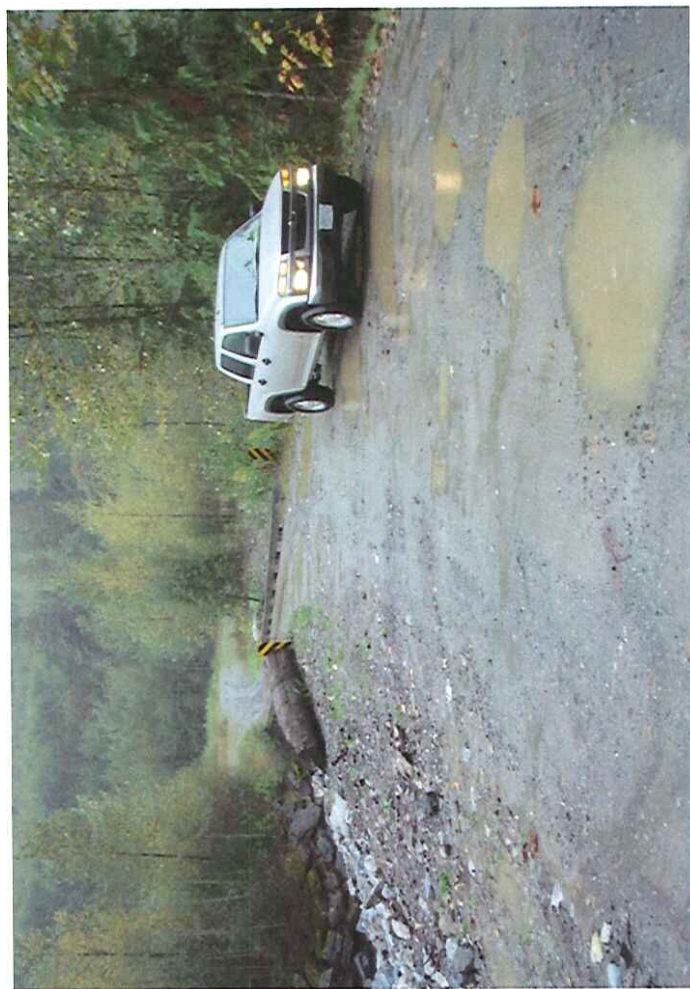
Comments: NEW LOAD RATING tonnes: 0 NAD: GPS

The overall condition of this structure is poor. Consider installing narrow structure signs and reinstalling a guide log at the bush side upstream corner.

REPLACE TIES AND DECK TO ATTAIN LOAD RATING OF 6.6 OR 5.4 TONNES. UNTIL THEN, POST NEW RATING OF 10 TONNES. ADVISE ALL USERS.

D. ROBEK, P. Eng. Nov. 20-2008







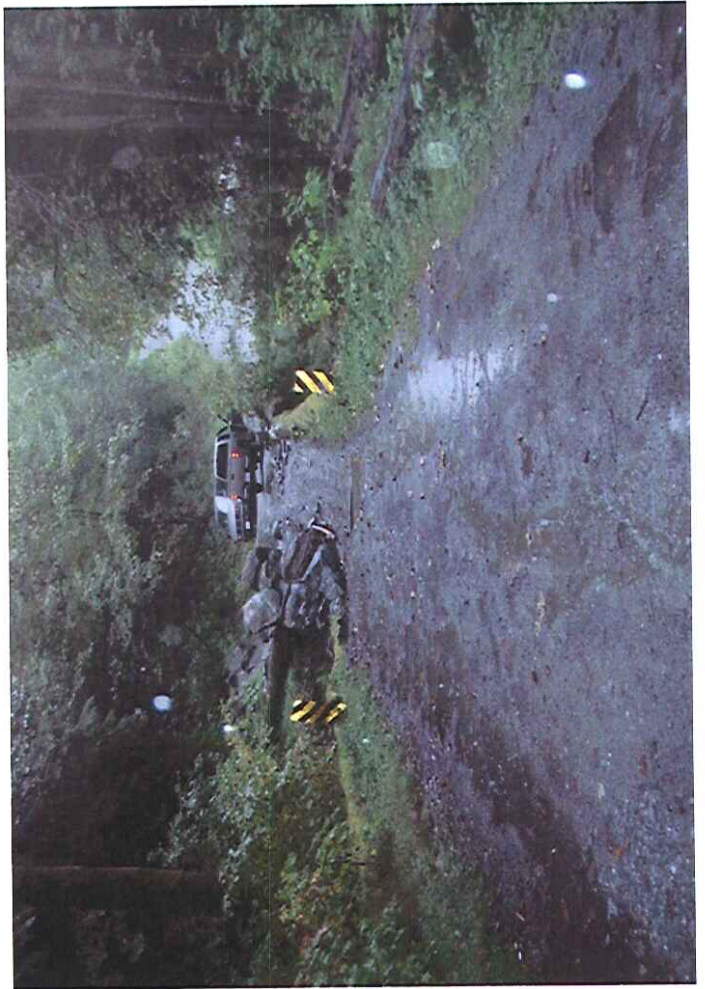






Nov. 20-2008





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2075

Chilliwack - Foley Creek

YEAR BUILT: 1992

2.10

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Foley Creek

Chilliwack

24.04 c/c

BCTS

5127.13

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck, minor spalling at approaches (CK-2075-a3 to a5).	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	4	250mm x 250mm untreated fir, 100mm shell remaining, town side upstream curb	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3		Remarks
	Hardware	3		Remarks
	Delineators	4	Only town side downstream delineator present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Concrete girder with steel flanges.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bearing pads in fair condition.	Remarks
	Piles or Posts	3	No access.	Remarks
	Concrete	3	Precast concrete ballast wall. Minor spalling at approaches (CK-2075-a3 to a5).	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	3		Remarks
	Fill	3	Adequately retaining fill.	Remarks
	Riprap	3		Remarks
	Overall	3		Remarks
APPROACHES		3	Approaches are brushed in with moderate potholes, located on a horizontal curve	Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	3.10	ESTIMATED HIGH WATER LEVEL (m):	3	HAZARD(S) DESCRIPTION:
						Water volume

HAZARDS:		Scour	
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Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Grade and brush out approaches; replace curbs and missing delineators.

AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	54	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	NAD:	GPS				
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The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

RETAIN PRESENT LOAD RATING OF L60 OR 54 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED:

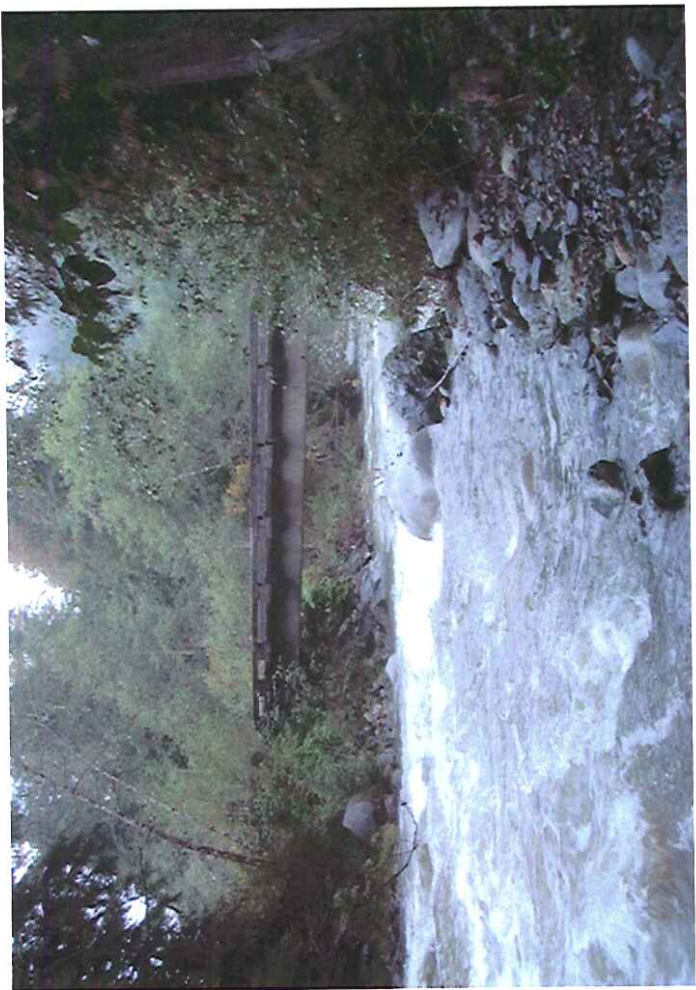
04-Oct-07

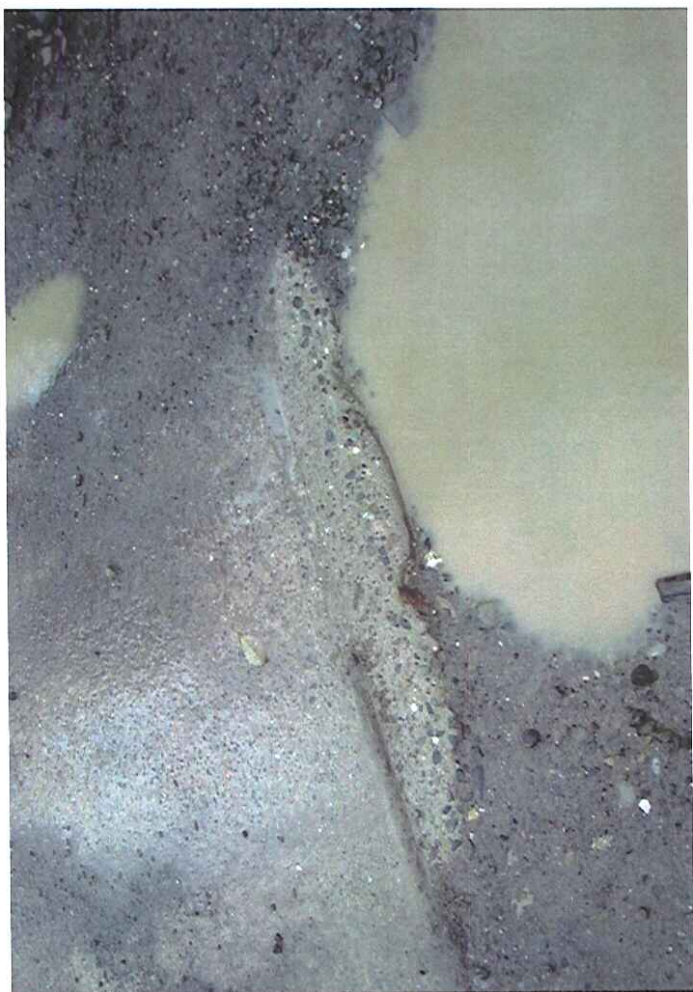
REVIEWED AND NOTED BY:

D. FOSBERG, P. Eng.

SIGNED:

Nov. 20 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2076 Chilliwack Foley Creek

YEAR BUILT:

4.40

1 1

Crossing: District Span: SBFEP/FRM: Project Number:

Foley Creek

Chilliwack

23.8 c/c

BCTS

5127.13

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	3	100mm x 250mm untreated fir planks. 3 planks crushed at wheelpath.	Remarks
	Structural Decking	3	100mm x 300mm untreated fir planks.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	4	250mm x 200mm untreated fir with 3 mm sap rot (CK-2076-a5).	Remarks
	Nails	3		Remarks
	Curbs and Blocks	3	300mm x 300mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3		Remarks
	Delineators	3	Delineators nonconforming, town side upstream delineator is missing.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 4 log high cedar crib, 1000mm average diameter face logs, 20mm sa	Remarks
	Tie-backs	4	Town side: 3 rows of 4 tie-backs (500mm) with 20mm sap rot. Bush side 4 rows	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	3	350mm x 200mm cedar cants with 3mm sap (CK-2076-a6).	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	4	Lashing corroded, but still tight.	Remarks
	Fill	3		Remarks
	Riprap	4	Bush side: riprap loacted immediately infront of crib and is comprised of large roun	Remarks
	Overall	4		Remarks
APPROACHES		3	Approaches are potholed and brushed in and located on a horizontal and vertical	Remarks

PRESENT WATER LEVEL (m):	0.80	PRESENT WATER CLEARANCE	3.55	ESTIMATED HIGH WATER LEVEL (m):	1.8	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required? Yes Professional Inspection Required? No REPAIR DESCRIPTIONS AND COST ESTIMATE:
Install conforming delineators; grade and brush out approaches.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	14	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	54	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: NAD: GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

RETAIN PRESENT LOAD RATING OF L-60 OR 54 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED: 02-Oct-07

REVIEWED AND NOTED BY:

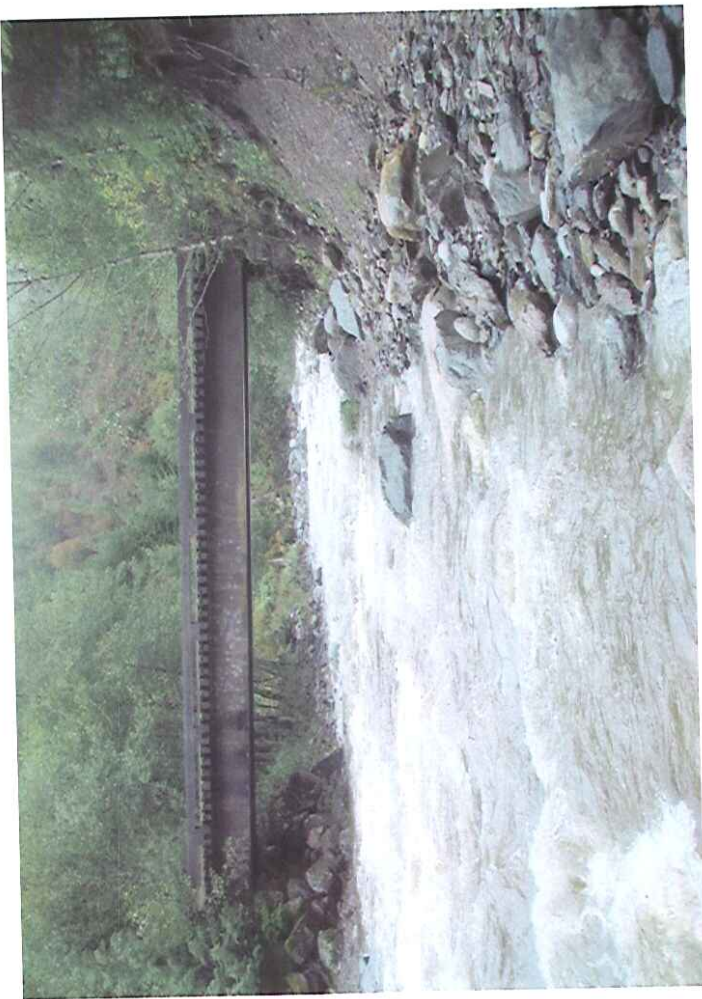
D. ROBEK, P. Eng

SIGNED:

Nov. 20-2008









Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2077 Chilliwack-Airplane Creek

YEAR BUILT:

0.10

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Foley Creek

Chilliwack

21.0 c/c

BCTS

5127.14

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Concrete slabs.	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	2	250mm x 250mm untreated fir ties.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	2		Remarks
	Delineators	5	Missing town side delineators.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Concrete slab girders, unable to access shear connectors due to gravel accumu	Remarks
	Diaphragms	6		Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6		Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 3 log high cedar crib; 900mm average face log diameter; no sap rot;	Remarks
	Tie-backs	3	Town side: 800mm average tie-back diameter; 10mm sap rot; no heart rot. Bus	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6		Remarks
	Fill	3	Retaining fill adequately	Remarks
	Riprap	3		Remarks
	Overall	3		Remarks
APPROACHES		3	Gate located at town side approach.	Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	3.70	ESTIMATED HIGH WATER LEVEL (m):	2.5	HAZARD(S) DESCRIPTION:
HAZARDS:						None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
				Install delineators at town side approach. Remove gravel accumulation from deck.		

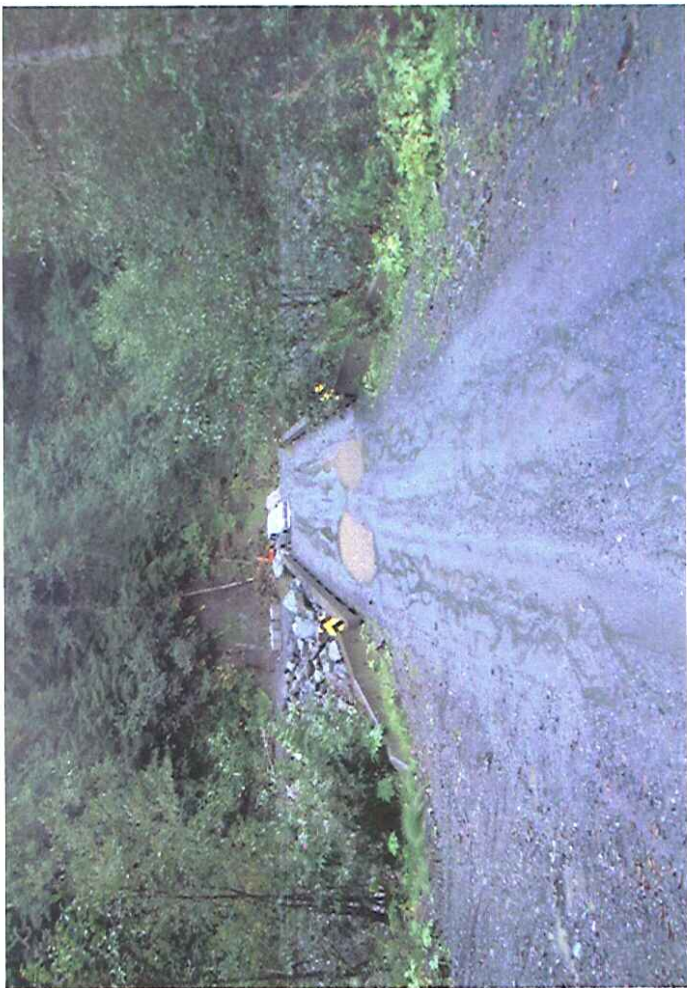
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	7	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	54	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	
Comments:	NEW LOAD RATING tonnes:			NAD:	GPS				

The overall condition of the structure is fair.

PRESENT LOAD RATING OF 54 tonnes to continue.

INSPECTOR K.MacDonald DATE SIGNED: 02-Oct-07 REVIEWED AND NOTED BY: P. Foster, P. Eng. SIGNED: Nov. 20 2008





CK-2084

Chilliwack South

YEAR BUILT:

0.00

Page: Of:

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Back channel

Chilliwack

14.05 c/c

BCTS

5127 26

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Minor spalling at approaches at wheel path (CK-2084-a3 to a7).	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	2	250mm x 250mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3	Welded sheer conectors.	Remarks
Delineators	4	Bush side delineators missing.	Remarks	
SUPER-STRUCTURE	Girders / Slabs	3	Concrete slab.	Remarks
	Diaphragms	6		Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	3	Welded sheer conectors.	Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3		Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	3	Precast concrete ballast wall. Spalling at bush side downstream corner (CK-2084	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3		Remarks
	Fill	3	Bush side downstream emankment over steepened	Remarks
	Riprap	2		Remarks
	Overall	3		Remarks
APPROACHES		3	Potholed at approaches.	Remarks

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	3.00	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
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HAZARDS:					None
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Repair Required?	Yes	Professional Inspection Required?	No
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REPAIR DESCRIPTIONS AND COST ESTIMATE:

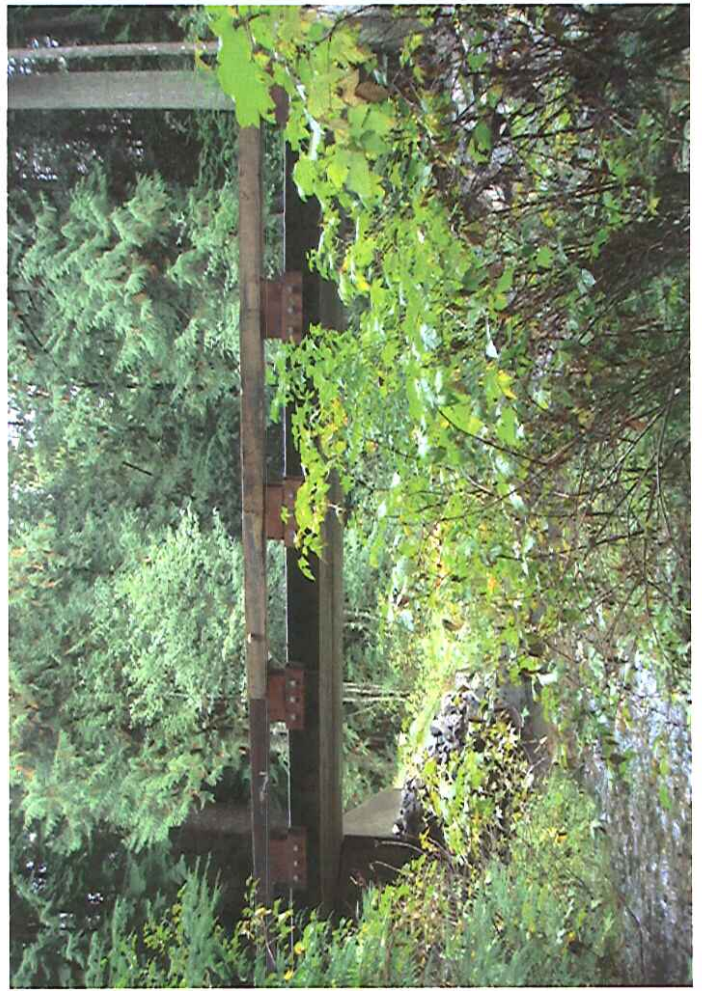
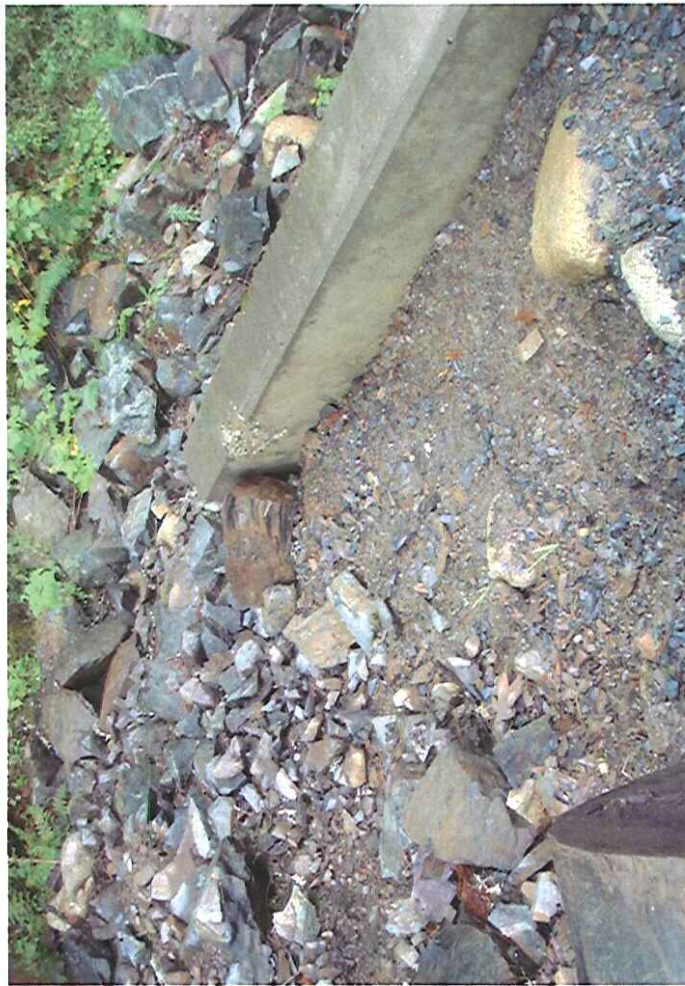
Install missing delineators. Repair/monitor spalling at approaches.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	13	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	54	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	NAD:	GPS					
The overall condition of the structure is fair. Narrow structure sign at bush side approach, consider installing narrow structure sign at town side approach.								

PREVENT LOAD RATING OF LGS OF 54 TONNES TO CONTINUE.

INSPECTOR: Mark Spence DATE SIGNED: 03-Oct-07 REVIEWED AND NOTED BY: V. Kobak, P. W. SIGNED: Nov 2-2008









Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

CK-2085

Chilliwack - South

YEAR BUILT:

1986

Km:

0.10

Page: Of:

1 1

Crossing:

Chilliwack River

District

Chilliwack

Span:

34.05 c/c

SBFEP/FRM:

BCTS

Project Number:

5127.26

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

Stream Classification:

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	2	80mm x 300mm untreated fir planks.	Remarks
	Structural Decking	2	100mm x 300mm untreated fir planks.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	2	200mm x 300mm untreated fir ties, spaced 400mm c/c.	Remarks
	Nails	2		Remarks
	Curbs and Blocks	2	300mm x 300mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	2		Remarks
	Hardware	2		Remarks
	Delineators	4	Bush side downstream delineator damaged.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bearings	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	Concrete ballast wall.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3	Bush side upstream bearing bolt bent.	Remarks
	Fill	3		Remarks
	Riprap	3	Large angular boulders placed at a 1:1 slope; poor gradation with medium sized	Remarks
	Overall	3		Remarks
APPROACHES	3		Bush side approach narrowed due to collapsed upstream road embankment (V2)	Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	3.60	ESTIMATED HIGH WATER LEVEL (m):	3	HAZARD(S) DESCRIPTION:
HAZARDS:						None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
				Brush out approaches. Install bush side downstream delineator. Repair bush side upstream road embankment.		

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	12	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	91	SUGGESTED REPLACEMENT DATE	
						at new load rating:			
						at original design load			

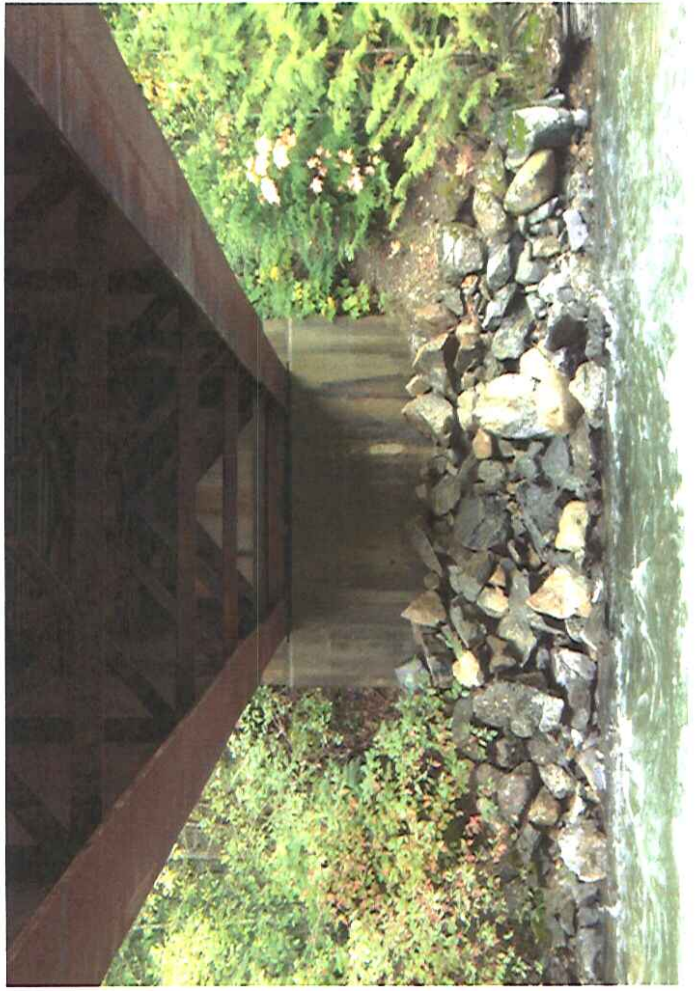
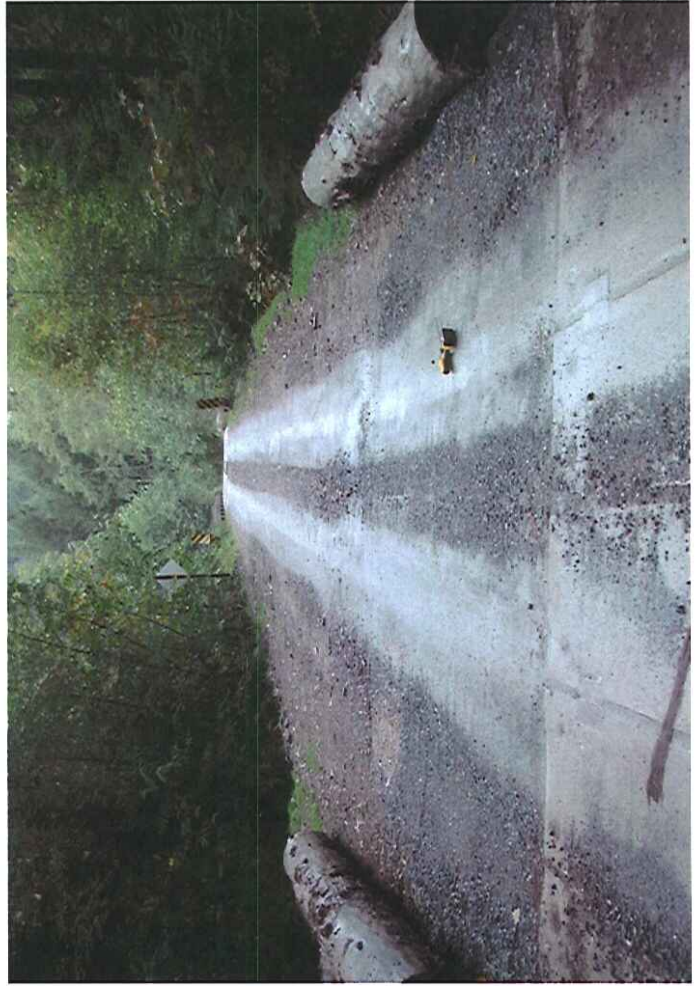
Comments:	NEW LOAD RATING tonnes:	NAD:	GPS
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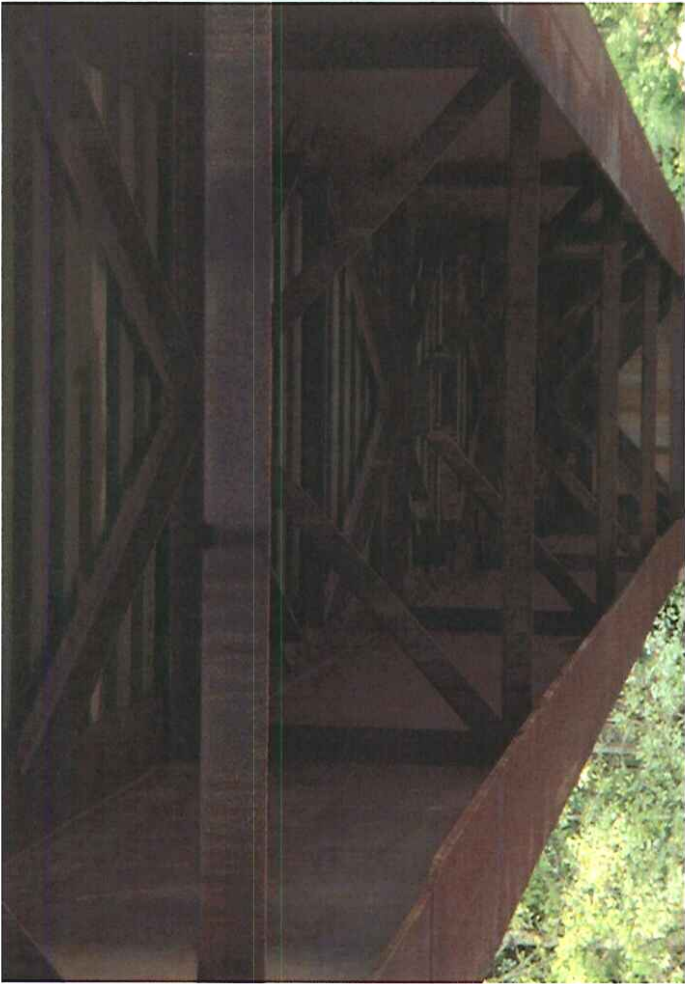
The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

RETAIN PRESENT LOAD RATING OF 1100 OR 91 TONNES.

INSPECTOR K. MacDonald DATE SIGNED: 04-Oct-07 REVIEWED AND NOTED BY: P. ROBEK, P. En. SIGNED: Nov. 20-2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km:

Page: Of:

CK-2161

Lorenzetta - Hunter East Creek

YEAR BUILT:

1.30

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

12.05 c/c

BCTS

6086.02

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	2	10 mm of gravel accumulation at bush side.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	2	Tubular steel rails	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	6		Remarks
	Delineators	3	Town side upstream delineator damaged.	Remarks
SUPER-STRUCTURE	Girders / Slabs	2	Magnum All Steel Portable. Ht#B9G005 B06 D02 MOF L165 Feb 00 (CK-2161-a)	Remarks
	Diaphragms	6	No access.	Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6		Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	300mm x 300mm treated fir sill on 500mm fir sill log.	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	3	2 high 300mm fir log ballast wall.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3	Bolted to timber sill (CK-2161-a7).	Remarks
	Fill	3		Remarks
	Riprap	4	Riprap placed at a 1:1 slope at town side (CK-2161-a10 and a11), poor gradatio	Remarks
	Overall	4		Remarks
APPROACHES	3		No post barriers at approaches, town side approach is located on a horizontal cu	Remarks

PRESENT WATER LEVEL (m):	0.30	PRESENT WATER CLEARANCE	3.00	ESTIMATED HIGH WATER LEVEL (m):	1.1	HAZARD(S) DESCRIPTION:
						Scour damage at town side abutment.

HAZARDS:		Scour		REPAIR DESCRIPTIONS AND COST ESTIMATE:
Repair Required?	Yes	Professional Inspection Required?	No	Replace damaged delineator.

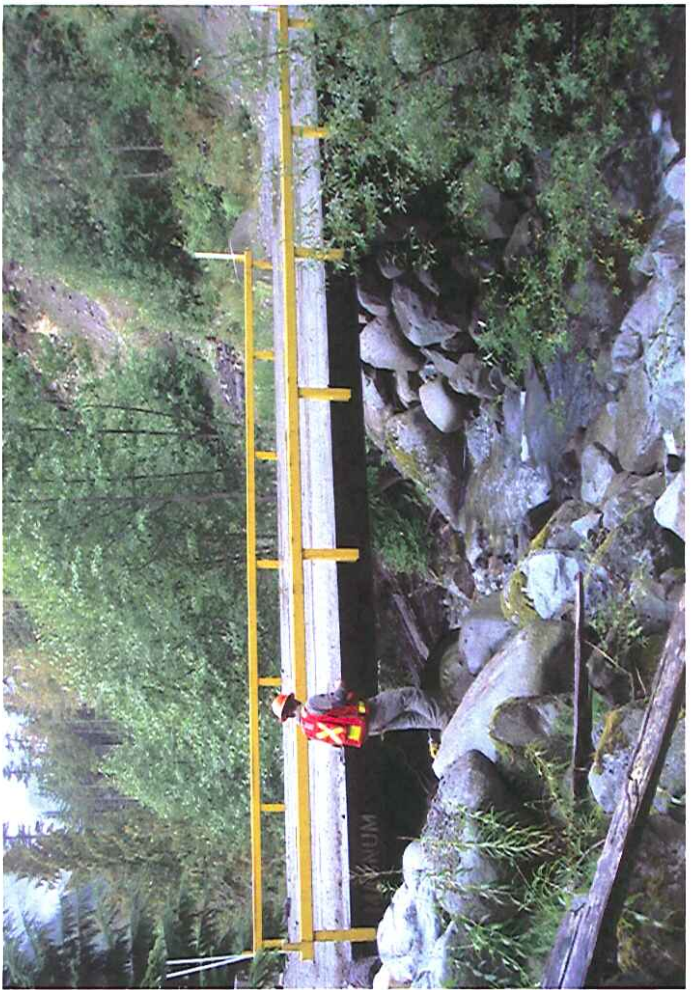
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	15	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	150	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	NAD:	GPS	
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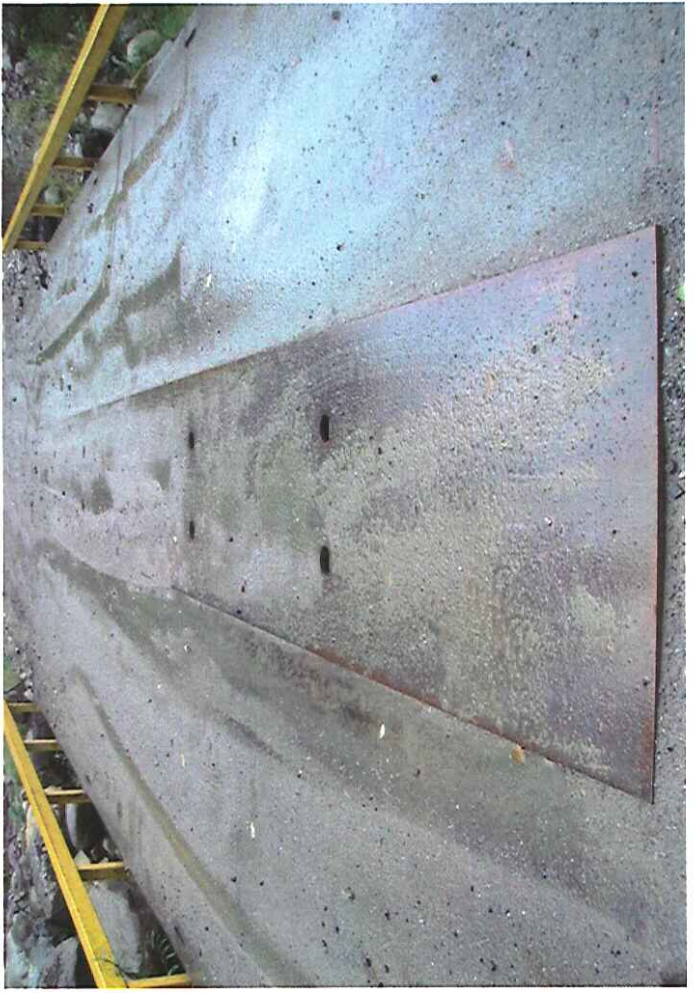
The overall condition of the structure is fair. Consider installing narrow structure signs at approaches. Monitor town side abutment.

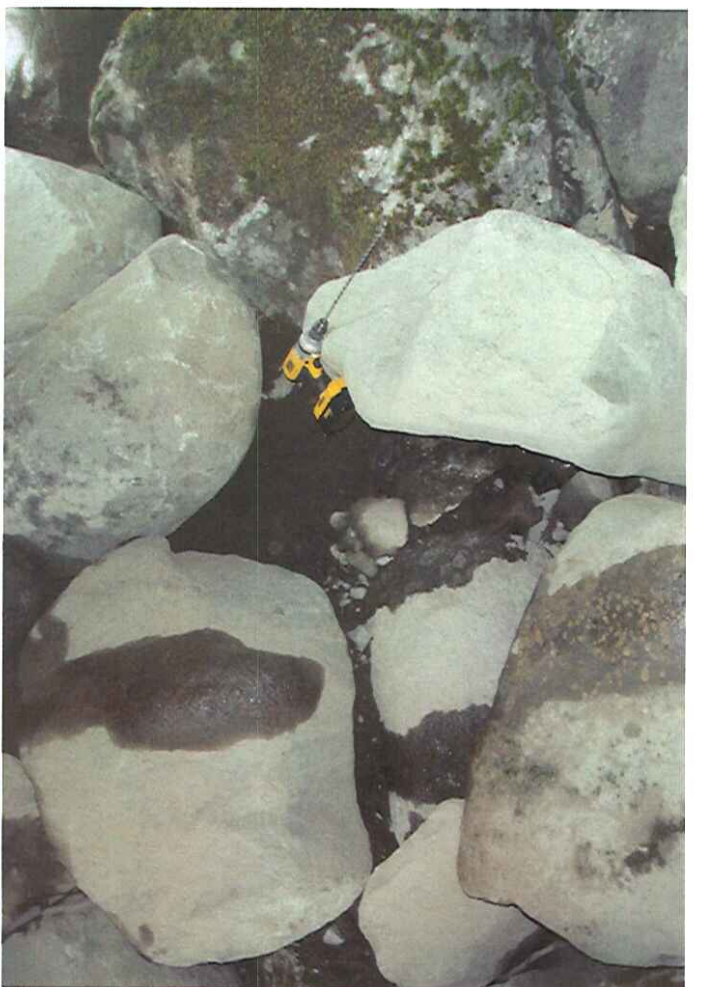
PRESENT RATING OF 150 OR 150 TONNES TO CONTINUE. (THIS RATING APPLIES TO ALL STEEL PORTABLE STRUCTURE)

INSPECTOR Mark Spence DATE SIGNED: 27-Sep-07 REVIEWED AND NOTED BY: D. ROSEK, P. Eng. SIGNED: Nov 20-2008









Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1800mm

Structure Number: Forest Service Road:

CK-2162

Lost Creek

Km:

0.80

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

BRIDGE CLASS
CULVERT

Year Built:

1989

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3	Deformed from 1800mm x1800 mm to 1600mm x 1900mm	Remarks
Outlet	3	Deformed from 1800mm x1800 mm to 1600mm x 1900mm	Remarks
Bolts	6		Remarks
Connections	4	65mm gap between culvert sections has exposed culvert	Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1300 mm cover.	Remarks
Riprap	4	No riprap at inlet or outlet, lack of riprap has resulted in sc	Remarks
Road Approaches	3	Located on horizontal curve.	Remarks
Overall	4	Outlet road embankment has collapsed due to scour dam	Remarks

PRESENT WATER LEVEL	0.05	PRESENT WATER CLEARANCE (m):	1.60	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
						Based on the scor damage at the inlet and outlet.

HAZARDS

	Scour	
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	Repair scour damage, and install riprap at inlet. Repair collapsed embankment, scour damage, and install riprap at outlet.

As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	6.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of this structure is fair.

RETAIN ORIGINAL DESIGN RATING, 150 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED: 19-Sep-07

NAD:

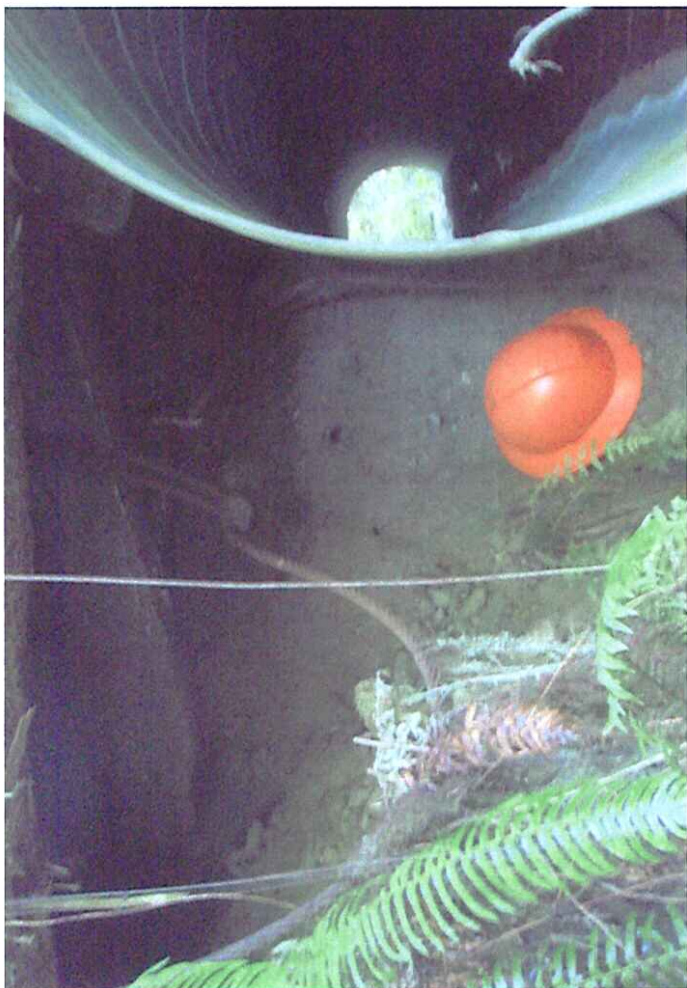
REVIEWED AND NOTED BY:

D. FOREK, P. Eng.

RN DATE SIGNED: Nov. 20-08

NEW LOAD RATING tonnes:

GPS





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1800mm x 2

Structure Number: Forest Service Road:

CK-2163

Lost Creek

Km: Page: Of:

1.10 1 1

Crossing:

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	4	Bush side inlet; 700mm high debris jam.	Remarks
Outlet	3		Remarks
Bolts	6		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	3	Minor staining noted at average water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1500mm cover over culvert.	Remarks
Riprap	3	A 900mm x 900mm void has formed between culverts (C)	Remarks
Road Approaches	3	Bush side approach located on a "S" curve at a 15% favor	Remarks
Overall	4	Bush side culvert. 1800mm x 11.0m metal pipe.	Remarks

PRESENT WATER LEVEL	0.01	PRESENT WATER CLEARANCE (m):	1.10	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
						Debris jam noted at bush side culvert inlet (200mm).

HAZARDS

	Debris			
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Repair
Required

Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Repair void at town side downstream approach; clean out bush side culvert debris jam.

Professional
Inspection
Required?

No

As-Builts
Checked?

No

NUMBER OF
PICTURES TAKEN:

9.00

Narrow Structure Signs?

PRESENT POSTED

No

RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

Based on the void at the town side downstream approach, the overall condition of this structure is poor. Consider creating a sump at the inlet to mitigate debris jams.

Retain present load rating of 4150 (136 tonnes)

INSPECTOR

K. MacDonald

DATE SIGNED:

NAD:

REVIEWED AND NOTED BY:

L. STEVANOVIC

RN DATE SIGNED:

09/30/08

NEW LOAD RATING tonnes:

GPS

PRESENT LOAD TO CONTINUE

Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1800mm x 2

Structure Number: Forest Service Road:

CK-2163

Lost Creek

Km:

1.10

Page: Of:

1

1

Crossing:

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of

Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3	Scour damage has collapsed the upstream embankment	Remarks
Outlet	4	Town side log ballast wall has settled resulting in a 450mm	Remarks
Bolts	6		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1.5m gravel cover.	Remarks
Riprap	3		Remarks
Road Approaches	3	Bush side approach located on a "S" curve at a 15% favor	Remarks
Overall	4		Remarks

PRESENT WATER LEVEL	0.01	PRESENT WATER CLEARANCE (m):	1.10	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
						Debris jam noted at bush side culvert inlet (200mm).

HAZARDS

	Debris			
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		Repair void at town side downstream approach; clean out bush side culvert debris jam.			
Professional Inspection Required?	No				
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	9.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

Based on the void at the town side downstream approach, the overall condition of this structure is poor. Consider creating a sump at the inlet to mitigate debris jams.

INSPECTOR

K.MacDonald

DATE SIGNED:

NAD:

REVIEWED AND NOTED BY:

L. STEVANOVIC

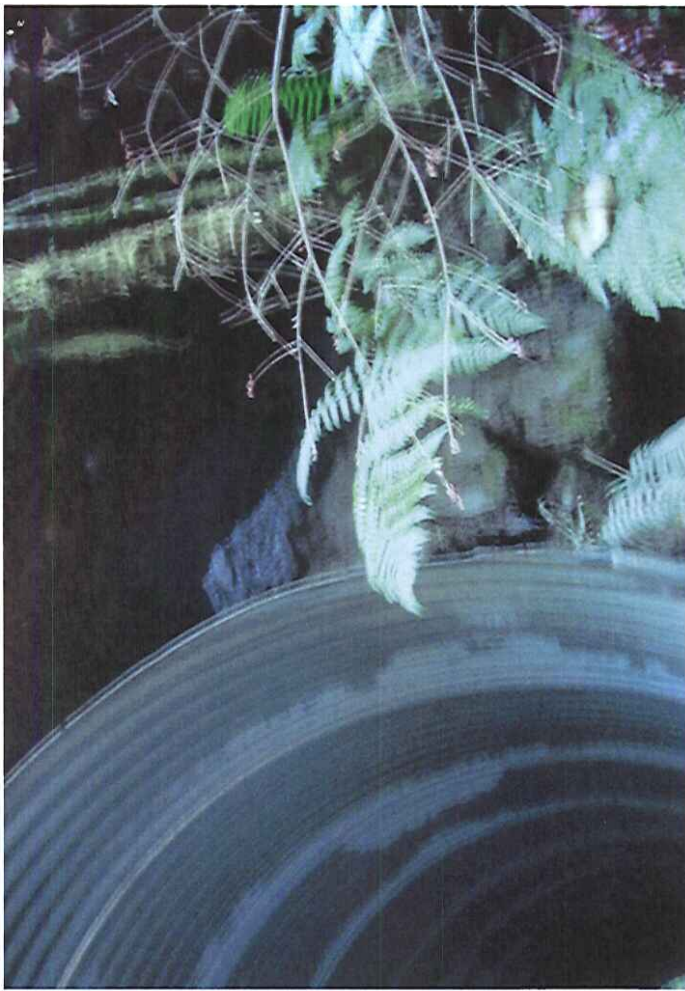
RN DATE SIGNED:

6CT 30/08

NEW LOAD RATING tonnes:

GPS





Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2 @ 1800mm

Structure Number: Forest Service Road:

CK-2163 Lost Creek

Km: Page: Of:

1.10 1 1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8466-01

Date of this
Inspection:

M: 11

Y: 2003

Date of Next
Inspection:

M: 11

Y: 2006

**BRIDGE CLASS
CULVERT**Year Built:
1987Number of
Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3 - Fair	Bush culvert is 70% blocked with debris. Town is collectin	Remarks
Outlet	2 - Good		Remarks
Bolts	6 - N/A (not applicable)		Remarks
Connections	6 - N/A (not applicable)		Remarks
Roof	2 - Good		Remarks
Floor	2 - Good		Remarks
Side Walls	2 - Good		Remarks
Baffles	6 - N/A (not applicable)		Remarks
Trash Rack	6 - N/A (not applicable)		Remarks
Wing / Head Walls	6 - N/A (not applicable)		Remarks
Coating	3 - Fair	Some corrosion on floor.	Remarks
Cover / Fill	3 - Fair	1.5m on U/S side. Hole in road on U/S side.	Remarks
Riprap	2 - Good		Remarks
Road Approaches	2 - Good		Remarks
Overall	2 - Good		Remarks

PRESENT WATER LEVEL	0.10	PRESENT WATER CLEARANCE (m):	1.70	ESTIMATED HIGH WATER LEVEL (m):	1.2	HAZARD(S) DESCRIPTION:
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HAZARDS

High Water	Debris	Scour		
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
Professional Inspection Required?	No	Remove debris, fill hole in road on U/S side.	

As-Built Checked?	No	NUMBER OF PICTURES TAKEN:	0.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:	136
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SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

2 X 1800mm X 11 Round corrugated metal pipe. PRESENT LOAD RATING TO CONTINUE. PLEASE FORWARD A COPY OF AS-BUILT DRAWINGS TO REGION FOR OUR FILES, THANK YOU, DR.

INSPECTOR: Johnson, Ross DATE SIGNED: 24-Nov-03 NAD:
 REVIEWED AND NOTED BY: D.Robek, P.Eng. RN DATE SIGNED: 04-Feb-11 NAD 27 UTM
 NEW LOAD RATING tonnes: GPS N 5459520 E 556146

Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

600mm x 1900m

Structure Number: Forest Service Road:

CK-2164

Lost Creek

Km:

1.40

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION	Remarks
Inlet	2	
Outlet	3	Scour damage has resulted in a 840 mm high x 1900 mm
Bolts	6	
Connections	3	
Roof	3	
Floor	3	Minor staining at normal water level.
Side Walls	3	
Baffles	6	
Trash Rack	6	
Wing / Head Walls	6	
Coating	3	Galvanized.
Cover / Fill	3	600mm gravel cover.
Riprap	3	
Road Approaches	2	15% grade.
Overall	3	

PRESENT WATER LEVEL	0.05	PRESENT WATER CLEARANCE (m):	1.20	ESTIMATED HIGH WATER LEVEL (m):	0.4	HAZARD(S) DESCRIPTION:
						Scour damage at outlet.

HAZARDS

	Scour		
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
Professional Inspection Required?	Yes				
As-Built Checked?	No	NUMBER OF PICTURES TAKEN:	6.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of the structure is fair.

RETAIN ORIGINAL DESIGN RATING; 175 or 68 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED:

19-Sep-07

NAD:

REVIEWED AND NOTED BY:

D. Robek, P. Eng.

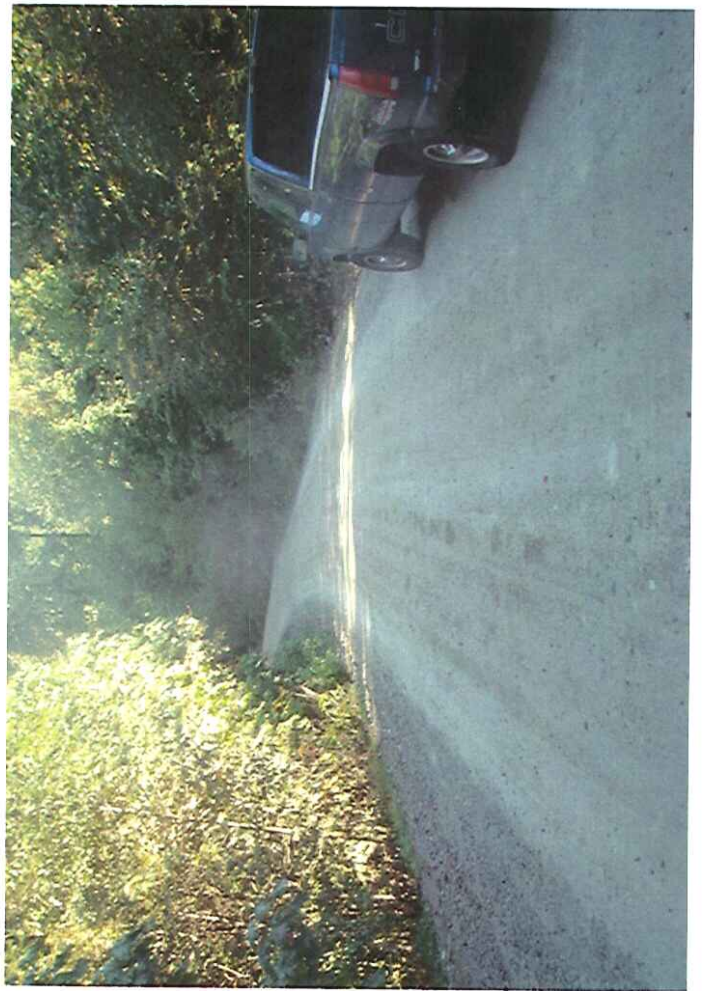
RN DATE SIGNED:

Nov. 20-08

NEW LOAD RATING tonnes:

GPS





Map / Location		STEEL / CONCRETE / GLULAM		Bridge Picture		Km:	Page:	Of:
Structure Number: CK-2165		Forest Service Road: Lost Creek		YEAR BUILT:		2.20	1	1
Crossing: Murdo Creek		District: Chilliwack		Span: 33.488 c/c		SBFEP/FRM: BCTS		Project Number: 8466.01
Date of this Inspection: M: 09 Y: 2007		Date of Next Inspection: M: 09 Y: 2010		BRIDGE CLAS: Permanent		Number of Spans: 1		

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

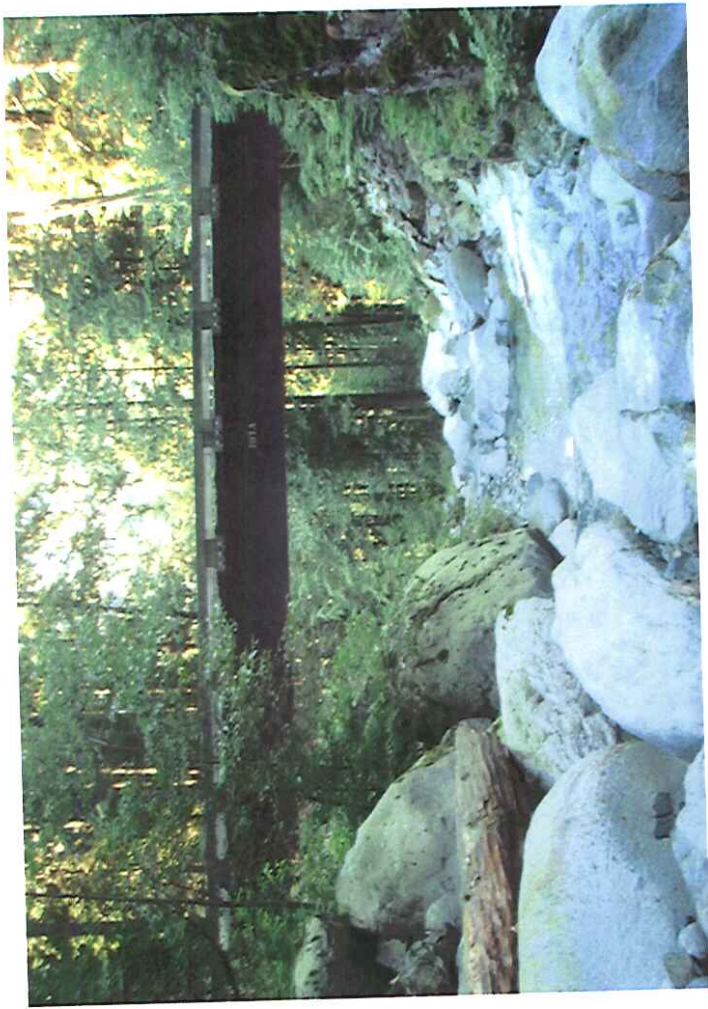
BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	2	Composite concrete deck; flaired at approaches; panel grouting in good condition	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	250mm x 25mm untreated fir, downstream curb has been damaged (CK-2165-a4)	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6	No access to grout pockets due to road debris accumulation at edges of panels	Remarks
	Hardware	6		Remarks
SUPER-STRUCTURE	Delineators	4	Town end delineators damaged.	Remarks
	Girders / Slabs	2	Weathering steel. Bridge ID: M.B.S. 100ft #467 L75 07/99 (CK-2165-a3).	Remarks
	Diaphragms	2	Weathering steel.	Remarks
	Bracing	2	Weathering steel.	Remarks
	Trussing	6		Remarks
SPAN #	Hardware	2	Weathering steel.	Remarks
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	2		Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	6		Remarks
	Bulkhead Planks	2	Precast concrete ballast walls.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	6	No access.	Remarks
	Fill	2		Remarks
	Riprap	2		Remarks
	Overall	2		Remarks
APPROACHES		3	Minor potholes at approaches	Remarks

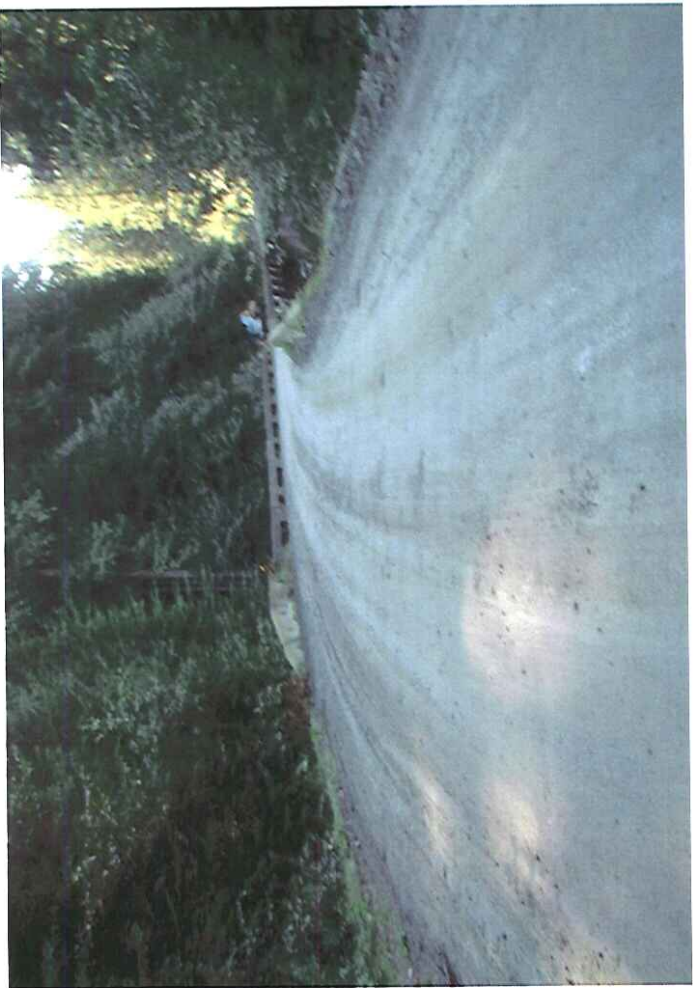
PRESENT WATER LEVEL (m): 0.40	PRESENT WATER CLEARANCE: 5.40	ESTIMATED HIGH WATER LEVEL (m): 2	HAZARD(S) DESCRIPTION:
HAZARDS: ☐ None			
Repair Required? ☒ Yes	Professional Inspection Required? ☐ No	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
		Install town side delineators; remove gravel accumulations from edges of deck; grade approaches.	
AS_BUILT CHECKED? ☐ No	NUMBER OF PICTURES TAKEN: 8	NARROW STRUCTURE SIGNS? ☐ No	PRESENT POSTED RATING tonnes: 68
			SUGGESTED REPLACEMENT DATE: <input type="text"/>
			at new load rating: <input type="text"/>
			at original design load: <input type="text"/>
Comments: NEW LOAD RATING tonnes: <input type="text"/>	NAD: <input type="text"/>	GPS: <input type="text"/>	<input type="text"/>

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

PREVENT LOAD RATING OF L75 OR 68 TONNES TO CONTINUE.

INSPECTOR: K.MacDonald DATE SIGNED: 19-Sep-07 REVIEWED AND NOTED BY: P.ROBER, P.Eng. SIGNED: Nov-20-2008





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2166

Lost Creek

YEAR BUILT: 1988

5.00

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Weatherhead Creek

Chilliwack

15.8 c/c

BCTS

8466.01

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	6	Minor spalling at approaches (CK-2166-a4).	Remarks
	Gravel Surfacing	6	600mm thick asphalt surfacing, limited access due to 150mm thick gravel accum	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	2	250mm x 250mm untreated fir curbs.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	6		Remarks
	Delineators	4	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Four concrete slab girders, condition is based on inspection from underside and	Remarks
	Diaphragms	6		Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6		Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	2	Cast in place concrete abutments.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6		Remarks
	Fill	2		Remarks
	Riprap	6	Town side abutment cast on bedrock, bush side abutment is below the stream ch	Remarks
	Overall	2		Remarks
APPROACHES	3		Located on horizontal curves at both approaches; bush side approach at a %15 f	Remarks

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	6.40	ESTIMATED HIGH WATER LEVEL (m):	1.5	HAZARD(S) DESCRIPTION:
--------------------------	------	-------------------------	------	---------------------------------	-----	------------------------

HAZARDS: None

Repair Required?

Yes

Professional Inspection Required?

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Install delineators at approaches. Remove fine accumulations at edges of deck.

AS_BUILT CHECKED?

No

NUMBER OF PICTURES TAKEN:

8

NARROW STRUCTURE SIGNS?

No

PRESENT POSTED RATING tonnes:

54

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load

Comments:

NEW LOAD RATING tonnes:

NAD:

GPS

E

The overall condition of the structure is fair. Consider replacing rotten guard logs at approaches, and installing narrow structure signs at approaches.

RETAIN PRESENT LOAD RATING OF 160 OR 54 TONNES.

INSPECTOR

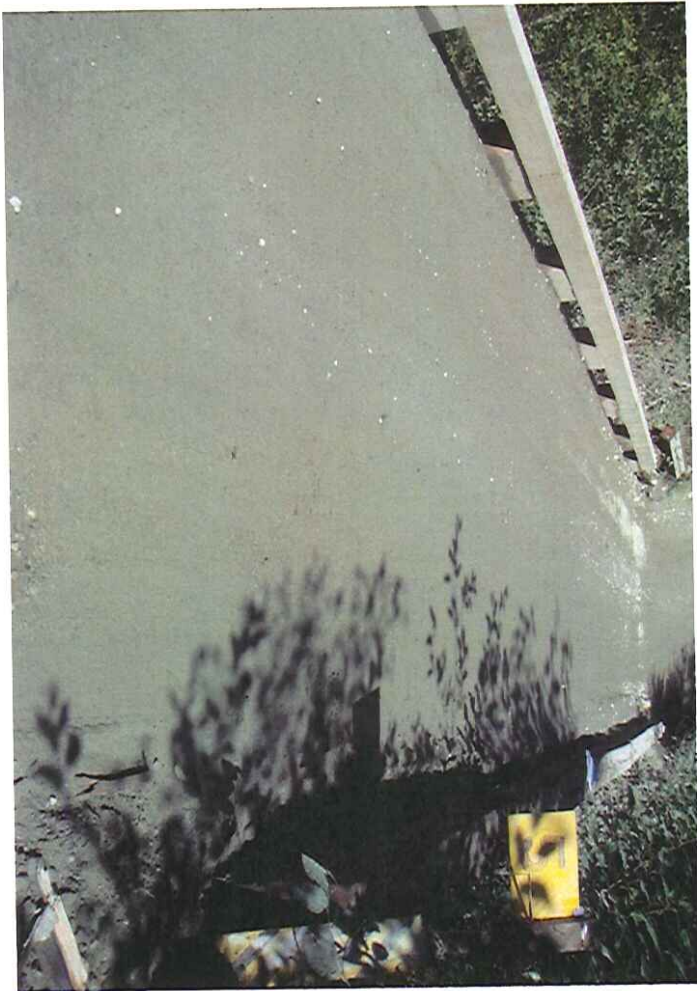
K. MacDonald

DATE SIGNED: 19-Sep-07

REVIEWED AND NOTED BY:

D. Forster, P. Eng. SIGNED: Nov. 20-2008





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2171

Lost Creek

YEAR BUILT:

17.80

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Kenyon Creek

Chilliwick

15.6 c/c

BCTS

8466.01

Date of this Inspection: M: 09 Y: 2007

Date of Next Inspection: M: 09 Y: 2010

BRIDGE CLAS

Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	1	75mm x 250mm treated fir planks; recently replaced.	Remarks
	Structural Decking	2	100mm x 300mm untreated fir planks, gravel accumulating at approaches	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	2	200mm x 250mm untreated fir ties, spacing varies from 400mm to 440mm c/c	Remarks
	Nails	1		Remarks
	Curbs and Blocks	2	250mm x 250mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	2	Ties bolted to steel brackets on girder top flange.	Remarks
	Hardware	3	Curbs attached with 1/2" bolts.	Remarks
	Delineators	4	Bush side downstream delineator missing.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel girders, minor flaking and pitting	Remarks
	Diaphragms	3	Minor flaking and pitting	Remarks
	Bracing	3	Minor flaking and pitting	Remarks
	Trussing	6		Remarks
	Hardware	6	No hardware, bracing and diaphragms weld connected	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bearings in fair condition.	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	1	150mm x 300mm treated fir planks.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	6		Remarks
	Fill	2		Remarks
	Riprap	2		Remarks
	Overall	3		Remarks
APPROACHES		2	Both approaches located on horizontal curves, minor potholes at approach.	Remarks

PRESENT WATER LEVEL (m):	0.30	PRESENT WATER CLEARANCE	2.90	ESTIMATED HIGH WATER LEVEL (m):	1.1	HAZARD(S) DESCRIPTION:
HAZARDS:						None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
Install bush side downstream delineator. Remove fine accumulations at approaches.						

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	8	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
						at new load rating:		at original design load	

Comments:	NEW LOAD RATING tonnes:		NAD:		GPS				
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The overall condition of the structure is fair. Consider installing narrow structure signs at approaches. No post barriers as guides.

RETAIN PRESENT RATING OF L600 OR 54 TONNES. PLEASE CHECK AS-BUILTS AND VERIFY.

INSPECTOR

K.MacDonald

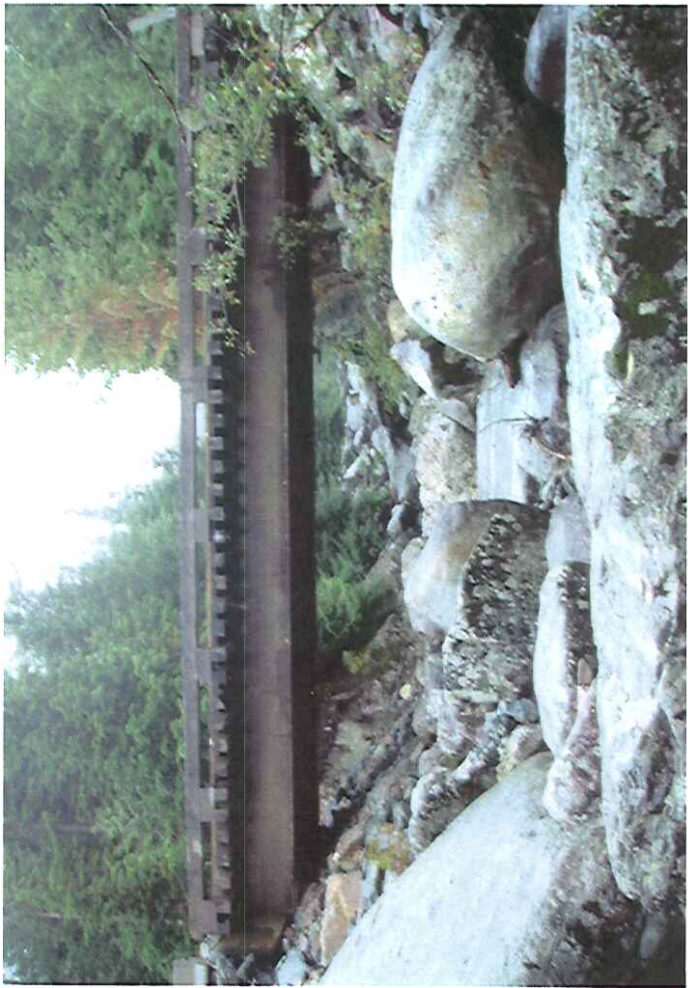
DATE SIGNED: 20-Sep-07

REVIEWED AND NOTED BY:

P. ROSE, P.Eng.

SIGNED:

N. De-2008





Crossing: Kenyon Creek

District: Chilliwack

Span: 8.0 c/c

SBFEP/FRM: BCTS

Project Number: 8466.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT: Inspection: Y: 2007 Inspection: Y: 2009

Bridge Class: Semi Permanent

Number of Spans: 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	4	Depth of gravel 600mm.	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	5	No curb logs present.	Remarks
	Delineators	5	No delineators present.	Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				20		Stringer Comments	
	1				11										All stringers are cedar.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	Species	600	580	600	760	800	720	700	630	680	700	840				
	Rot mm	20	15	10	5	10	15	25	20	30	20	20				
	Spacing mm	150	100	100	100	100	100	100	100	100	100				REMARKS	

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		6		
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 2 log high cedar crib, 850mm average dimeter face logs, 50mm sap rot.	Remarks
	Tie-backs	4	Town side: 500mm average diameter tie-backs, 30mm sap rot. Bush side	Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	4	Lashing is loose.	Remarks
	Fill	3		Remarks
	Riprap	6	No riprap present (CK-2172-a3 and a4).	Remarks
	Overall	4		Remarks
	APPROACHES	4	Brushed in. Potholes at approaches.	Remarks

PRESENT WATER LEVEL (m):	0.10	PRESENT WATER CLEARANCE	1.60	ESTIMATED HIGH WATER LEVEL (m):	0.6	HAZARD(S) DESCRIPTION:
HAZARDS:						None

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	Yes	

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	9	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
SUGGESTED REPLACEMENT:		at new load rating:		at original design load		

Comments: The overall condition of this structure is poor. Based on the above, structure is rated at LG of 54 tonnes. Due to overall condition, consider replacement.

INSPECTOR: Mark Spence

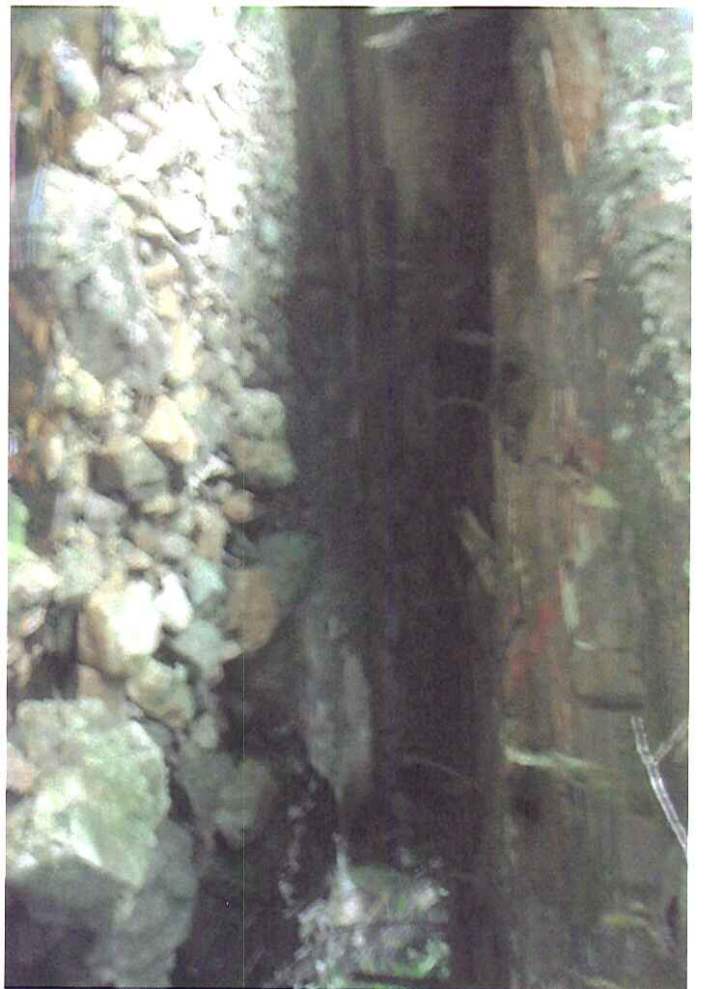
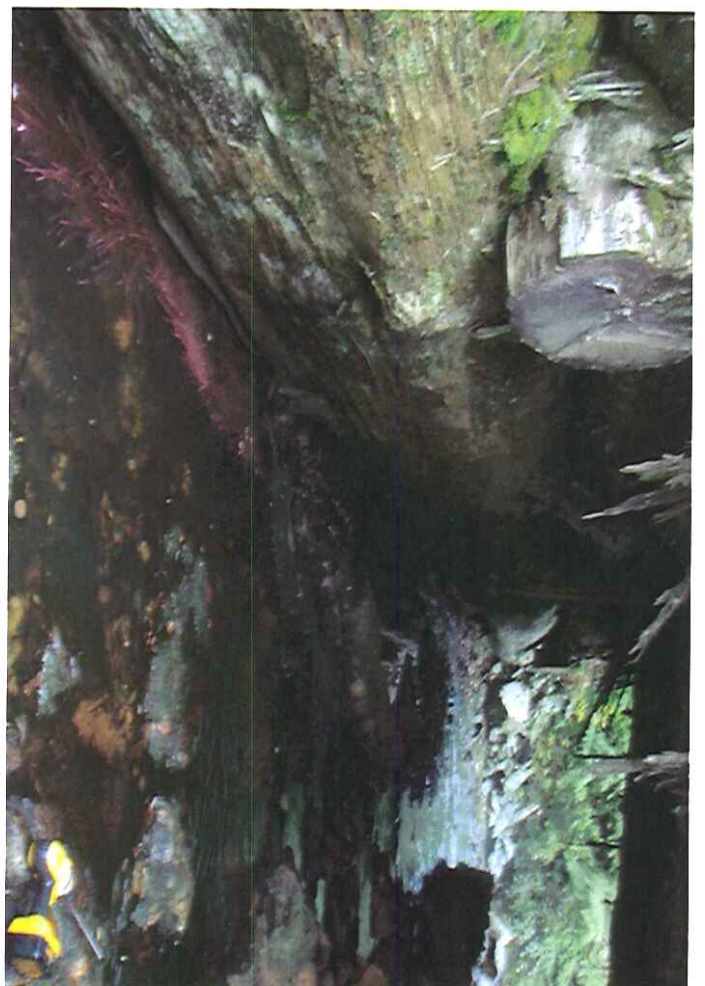
DATE SIGNED: 20-Sep-07

NEW LOAD RATING tonnes: 54

REVIEWED AND NOTED BY: D. Fiske, P. Eng.

RN DATE SIGNED: Nov. 20-2008





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km:

Page: Of:

CK-2174

Lost Murdo

YEAR BUILT:

0.70

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

10.3 c/c

BCTS

8466.02

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT

CONDITION

REMARKS

DECK

Running Planks

6

Structural Decking

4

Concrete Deck

6

Gravel Surfacing

6

Ties

4

Nails

4

Curbs and Blocks

4

Hand Rails

6

Deck to Girder Bolt

3

Hardware

3

Delineators

5

100mm x 300mm fri planks, crushed at wheel path, worn with pockets of rot (CK-

200mm x 250mm untreated fir, 1 out of 5 ties are rotten, conk noted on the unde

Nail heads protruding 2mm.

250mm x 250mm untreated fir, loose with 5mm sap rot (CK-2174-a13 and 14).

Every 5th girder is bolted to steel bracket that is welded to top flange.

No delineators present.

SUPER-STRUCTURE

Girders / Slabs

3

Diaphragms

3

Bracing

3

Trussing

6

Hardware

3

Weathering steel.

Weathering steel.

Weathering steel.

Weathering steel.

SPAN

1

PIERS

Caps

6

Piles or Posts

6

Concrete

6

Bracing or Sheat

6

Cribs

6

Hardware

6

Riprap

6

Overall

6

ABUTMENTS

Cribs

3

Tie-backs

3

Bin Walls

6

Caps or Sills

6

Piles or Posts

6

Concrete

6

Bulkhead Planks

3

Wing Wall Planks

6

Bracing

6

Hardware

3

Fill

6

Riprap

3

Overall

3

Town side; 2 log high cedar crib, 800mm average diameter face logs, 20mm sap

Town side: 1 row of 3 cedar tie-backs, 500mm average tie-back diameter with 20

300mm x 300mm treated fir.

Girders bolted to crib log and ballast wall.

Town side: Over steepened (1.25/1), scour damage has collapsed the town side

Town side approach is located on vertical and horizontal curves.

APPROACHES

4

PRESENT WATER LEVEL (m):

0.20

PRESENT WATER CLEARANCE

2.40

ESTIMATED HIGH WATER LEVEL (m):

1.5

HAZARD(S) DESCRIPTION:

Scour damage at both abutments.

HAZARDS:

Scour

Repair Required?

Yes

Professional Inspection Required?

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Replace deck and ties; install delineators.

AS BUILT CHECKED?

No

NUMBER OF PICTURES TAKEN:

18

NARROW STRUCTURE SIGNS?

No

PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load

Comments:

NEW LOAD RATING tonnes:

5

NAD:

GPS

Based on the condition of the deck and ties the overall condition of the structure is poor. Consider installing narrow structure signs at approaches.

FOR NEW LOAD RATING OF 5 TONNES. REPLACE DECK AND TIES TO MATCH ORIGINAL RATING. REFER TO AS-BUILTS FOR ORIGINAL RATING.

INSPECTOR

Mark Spence

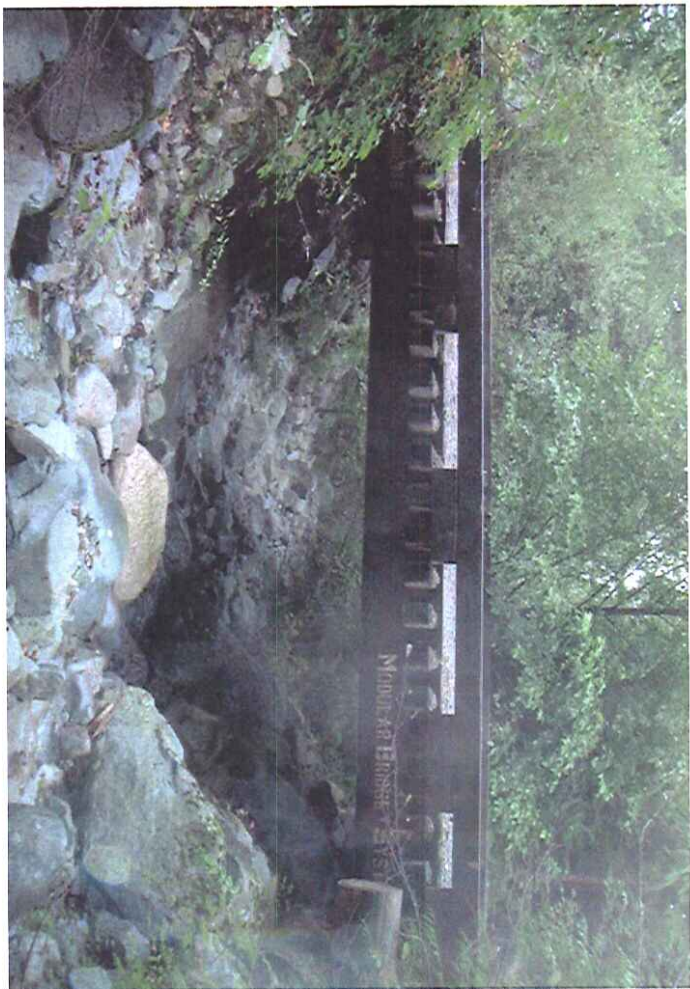
DATE SIGNED: 20-Sep-07

REVIEWED AND NOTED BY:

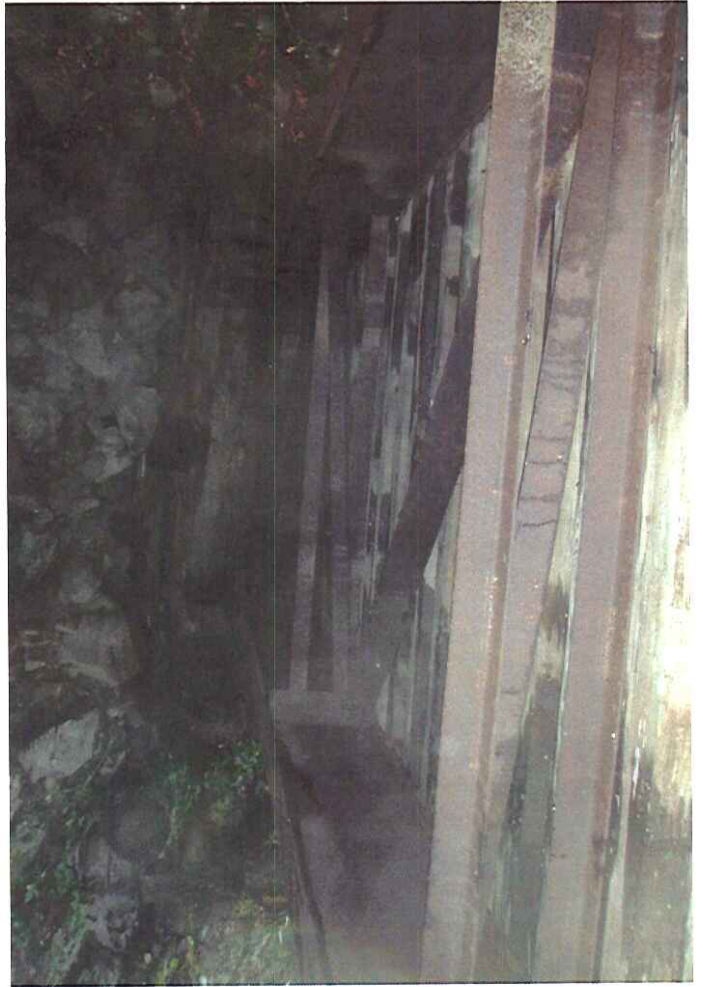
D. Forrester, P. Eng.

SIGNED:

M. H. 2008











Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2175

Lost-Murdo

YEAR BUILT:

1.20

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

9.550 c/c

BCTS

8466.02

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	4	100mm x 250mm untreated fir, heavily worn with pockets of rot.	Remarks
	Structural Decking	4	100mm x 250mm untreated fir with pockets of rot.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	4	200mm x 250mm untreated fir, %20 of ties rotten at tie/girder contact (CK-2175-a)	Remarks
	Nails	3		Remarks
	Curbs and Blocks	4	250mm x 250mm untreated fir, loose with several sections of pocket rot	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3	Ties attached to top flange with steel brackets	Remarks
	Hardware	6		Remarks
	Delineators	5	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel	Remarks
	Diaphragms	3	Weathering steel	Remarks
	Bracing	3	Weathering steel	Remarks
	Trussing	6		Remarks
	Hardware	6	Weathering steel	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	3 log high cedar crib on town side; average diameter 650mm; 20mm sap rot.	Remarks
	Tie-backs	3	450mm average diameter tiebacks for both town and bush side; 20mm sap rot.	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	3	150mm x 300mm untreated fir planks	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6	Bolted to crib (CK-2175-a6).	Remarks
	Fill	2		Remarks
	Riprap	6	No riprap present. Crib located on stream bank 500mm above high water level,	Remarks
	Overall	3		Remarks
APPROACHES		3	Town side approach located on a %10 favorable grade (CK-2175-a3). Bush side	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	3.00	ESTIMATED HIGH WATER LEVEL (m):	1.5	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No
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REPAIR DESCRIPTIONS AND COST ESTIMATE:

Replace ties, deck and curbs. Install delineators at approaches.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	12	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

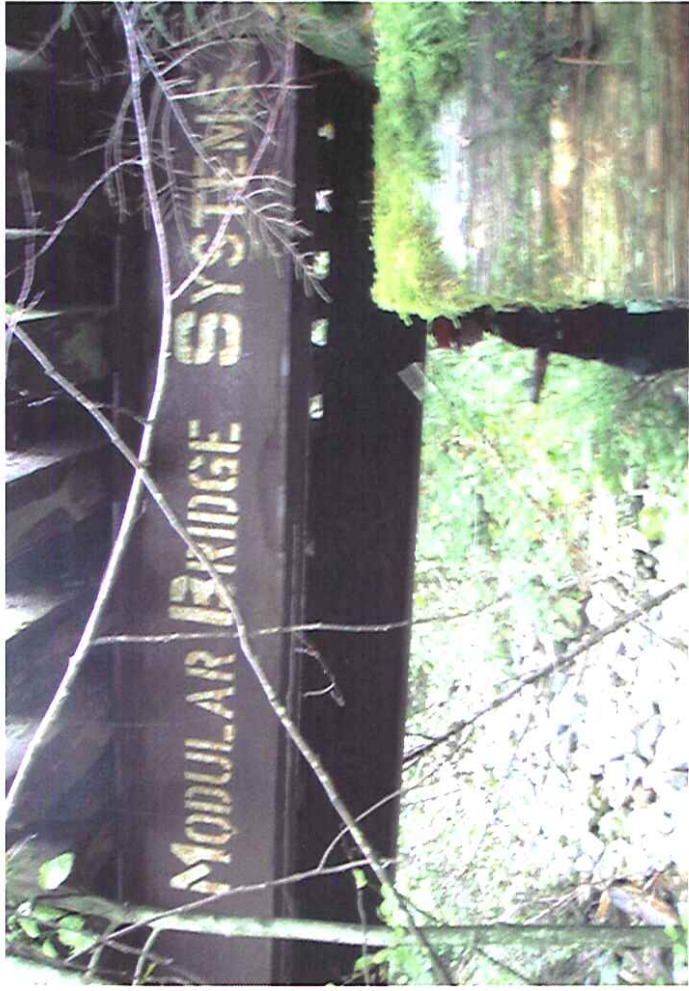
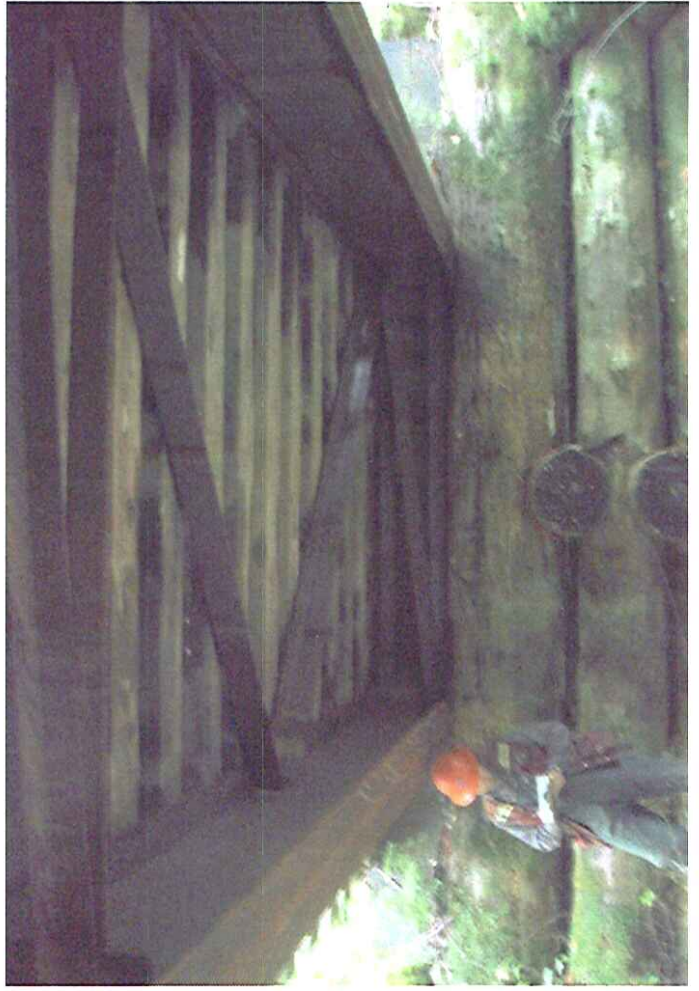
Comments: NEW LOAD RATING tonnes: 5 NAD: GPS

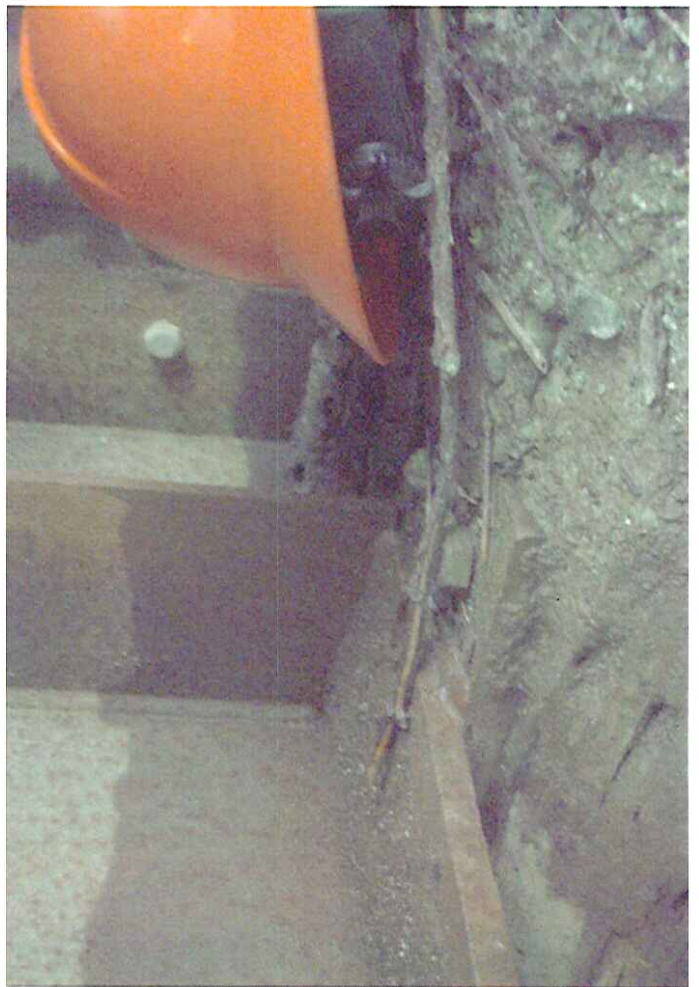
Due to the condition of the curb, deck, and ties the overall condition of this structure is poor.

Post New Load Rating of 5 tonnes. Advise all users. Replace deck and ties to attain original ratings. Refer to AS-BUILTS.

INSPECTOR K. MacDonald DATE SIGNED: 20-Sep-07 REVIEWED AND NOTED BY: D. Robek, P. Eng. SIGNED: Nov. 26. 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2176

Lost South

YEAR BUILT:

2.00

1 0

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Darlene Creek

Chilliwack

18.228 c/c

BCTS

8466.04

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Semi Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	2	Steel deck with epoxy anti-skid surfacing.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	2	Tubular steel rails.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	6		Remarks
	Delineators	5	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	2	All-Steel Portable.	Remarks
	Diaphragms	6	No access.	Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6		Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 4 log high cedar crib functioning as a retaining wall, 900mm average	Remarks
	Tie-backs	3	Town side: 3 rows of 2 tie-backs, 800mm average tie-back diameter with 20mm	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Log or timber sills not visible. All-steel portable set back from town and bush crib	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	4	Lashing is loose and heavily corroded	Remarks
	Fill	3		Remarks
	Riprap	6	No riprap present, town side downstream corner is undermined resulting in a 3.0	Remarks
	Overall	3		Remarks
APPROACHES		3	Located on a horizontal curve.	Remarks

PRESENT WATER LEVEL (m):	0.40	PRESENT WATER CLEARANCE	4.00	ESTIMATED HIGH WATER LEVEL (m):	1.5	HAZARD(S) DESCRIPTION:
						Undermining of town side downstream corner indicates a scour hazard exists for this structure.

HAZARDS:		Scour			
Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
				Intall delineators at approaches.	

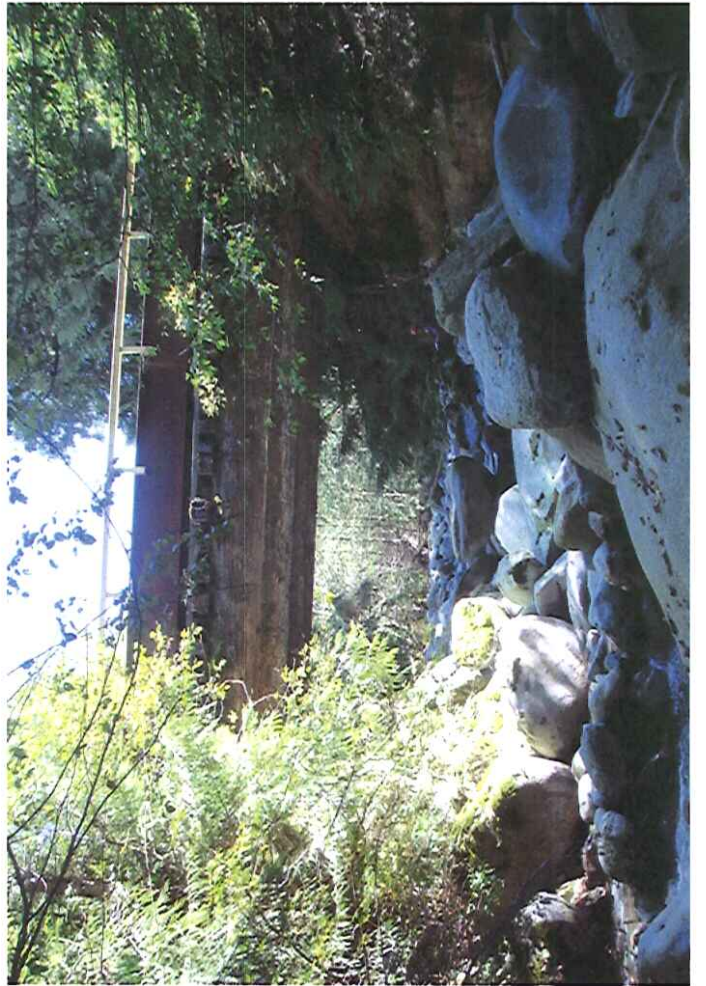
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	9	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: NAD: GPS

The existing structure has been over spanned with an all-steel portable to limit the live load surcharge on the existing cribs. Based on the condition of the all-steel portable and cribs the overall condition of this structure is fair.

RETAIN PRESENT RATING OF 1.15 OR 60 TONNES. (ALL STEEL PORTABLE).

INSPECTOR K. MacDonald DATE SIGNED: 19-Sep-07 REVIEWED AND NOTED BY: D. F. F. SIGNED: Nov. 26. 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km:

Page: Of:

CK-2182

Lost - North

YEAR BUILT: 2001

0.40

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Lost Creek

Chilliwack

0 1/2

BCTS

8466.08

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Semi Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	2		Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	2	Tubular steel rails.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	2		Remarks
	Delineators	2	All delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	6	All Steel Portable. West Bridge Corp. ID. L75 24.384 WD2607 Sept 2001 (CK-21)	Remarks
	Diaphragms	6	No access.	Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6	No access.	Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 4 log high cedar crib functioning as a retaining wall, 800mm average	Remarks
	Tie-backs	3	Town side: 3 rows of 2 cedar tie-backs (500mm) with 15mm sap rot. Bush end: 4	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6	Log or timber sills not visible. All-steel portable set back from town and bush crib	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6		Remarks
	Fill	6		Remarks
	Riprap	6	No riprap present.	Remarks
	Overall	4		Remarks
APPROACHES		3	Located on a tight horizontal curve.	Remarks

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	4.10	ESTIMATED HIGH WATER LEVEL (m):	1.2	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required? No Professional Inspection Required? No REPAIR DESCRIPTIONS AND COST ESTIMATE:

AS_BUILT CHECKED?	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	L75	SUGGESTED REPLACEMENT DATE
							at new load rating:
							at original design load

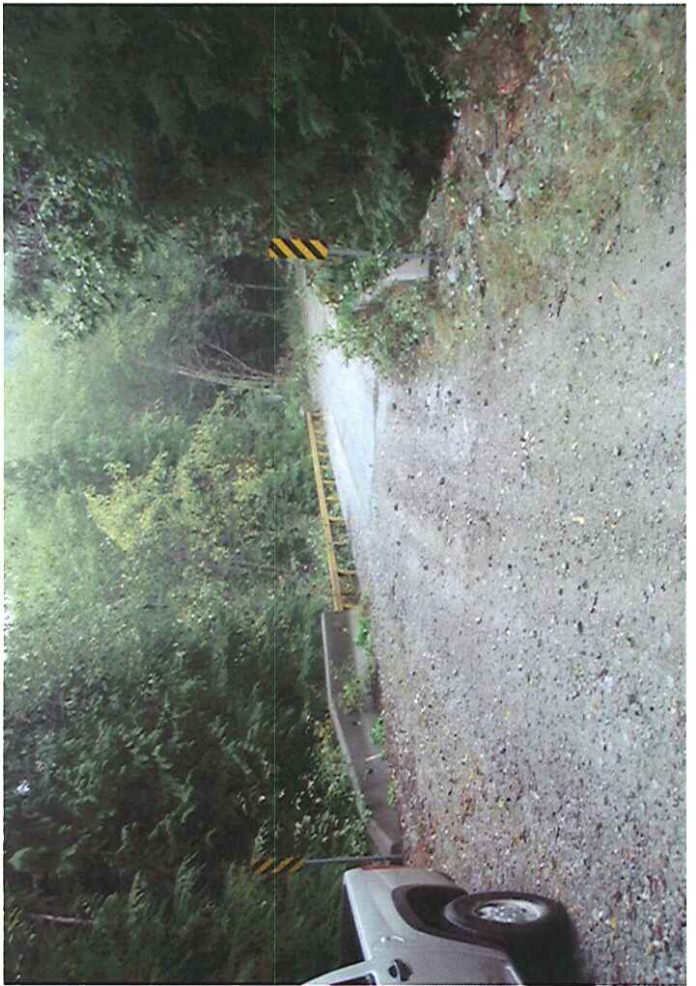
Comments: NEW LOAD RATING tonnes: NAD: GPS

The existing structure has been over spanned with an all-steel portable to limit the live load surcharge on the existing cribs. Based on the condition of the all-steel portable and cribs the overall condition of this structure is fair.

RETAIN PRESENT RATING OF L75 OR 68 TONNES. (ALL STEEL PORTABLE)

INSPECTOR Mark Spence DATE SIGNED: 20-Sep-07 REVIEWED AND NOTED BY: D. Foster, P. Eng. SIGNED: Nov. 26. 2008





WEST BRIDGE CORP.
L-75 24.384M
WB 2607 SEPT. 2001



Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2203

Nahatlatch (Kookipi 3)

2.40

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

4.0 c/c

BCTS

6996.03

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	6 600mm gravel cover.
	Ties	6
	Nails	6
	Curbs and Blocks	6
	Delineators	6

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):						Stringer Comments		
	1				14												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14			
	Diameter mm	500	400	400	500	600	500	400	500	500	580	620	420	380	450		
	Sap Rot mm	5			250	300	250	200	250								
	Slab %				50	50	50	50	50		50		75				

NEEDLE BEAM(S) SHIMS	CONDITION	REMARKS
PIERS	Caps	6
	Piles or Posts	6
	Concrete	6
	Bracing or Sheat	6
	Cribs	6
	Hardware	6
	Riprap	6
	Overall	6
ABUTMENTS	Cribs	6
	Tie-backs	6
	Caps or Sills	3
	Piles or Posts	6
	Concrete	6
	Bulkhead Planks	6
	Wing Wall Planks	6
	Bracing	6
	Hardware	6
	Fill	3
	Riprap	3
	Overall	3
APPROACHES	3	11m wide road on large radius horizontal curve.

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	0.90	ESTIMATED HIGH WATER LEVEL (m):	0.3	HAZARD(S) DESCRIPTION:
--------------------------	------	-------------------------	------	---------------------------------	-----	------------------------

HAZARDS: None

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	A 400mm log is lodged half way down the structure (CK-2003-a2).

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	9	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	136
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SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

The overall condition of the structure is fair, that said, the stream flow is subsurface from 10m above the structure to 20m below the structure (CK-2003-a5).

Recommend downrating to 10 tonne or bridge replacement

INSPECTOR Mark Spence DATE SIGNED: 25-Sep-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: G. Dohm, Peng RN DATE SIGNED: Dec 17/08

Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2203

Nahatlatch (Kookipi 3)

2.40

1

1

Crossing: Side Creek District: Chilliwack Span: 4.0 c/c SBFEP/FRM: BCTS Project Number: 6996.03

Date of this M: 09 Date of Next M: 09 YEAR BUILT: Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class: Semi Permanent Number of Spans: 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	Remarks
	Ties	Remarks
	Nails	Remarks
	Curbs and Blocks	Remarks
	Delineators	Remarks

STRINGERS	Span Number:				Number of Stringers:			Average Stringer Rot Depth For Wood Culvert (mm):						3	Stringer Comments
	1				27										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Diameter mm	380	400	200	500	590	530	570	620	620	290	610	700	490	
Sap Rot mm	5			5		5		5		15			10		
Slab %		75			50			50	50						

NEEDLE BEAM(S) SHIMS	CONDITION	REMARKS
PIERS	Caps	
	Piles or Posts	
	Concrete	
	Bracing or Sheat	
	Cribs	
	Hardware	
	Riprap	
	Overall	
ABUTMENTS	Cribs	Remarks
	Tie-backs	Remarks
	Caps or Sills	Remarks
	Piles or Posts	Remarks
	Concrete	Remarks
	Bulkhead Planks	Remarks
	Wing Wall Planks	Remarks
	Bracing	Remarks
	Hardware	Remarks
	Fill	Remarks
	Riprap	Remarks
	Overall	Remarks
APPROACHES		Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	0.90	ESTIMATED HIGH WATER LEVEL (m):	0.3
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HAZARD(S) DESCRIPTION:

HAZARDS: None

Repair Required?	Yes
Professional Inspection Required?	No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

A 400mm log is lodged half way down the structure (CK-2003-a2).

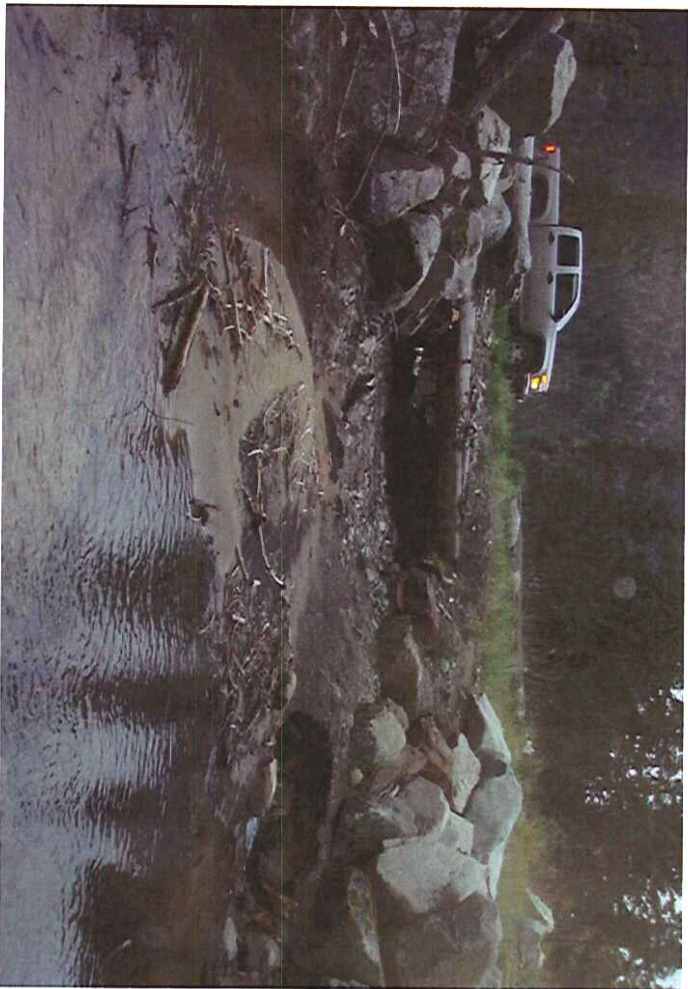
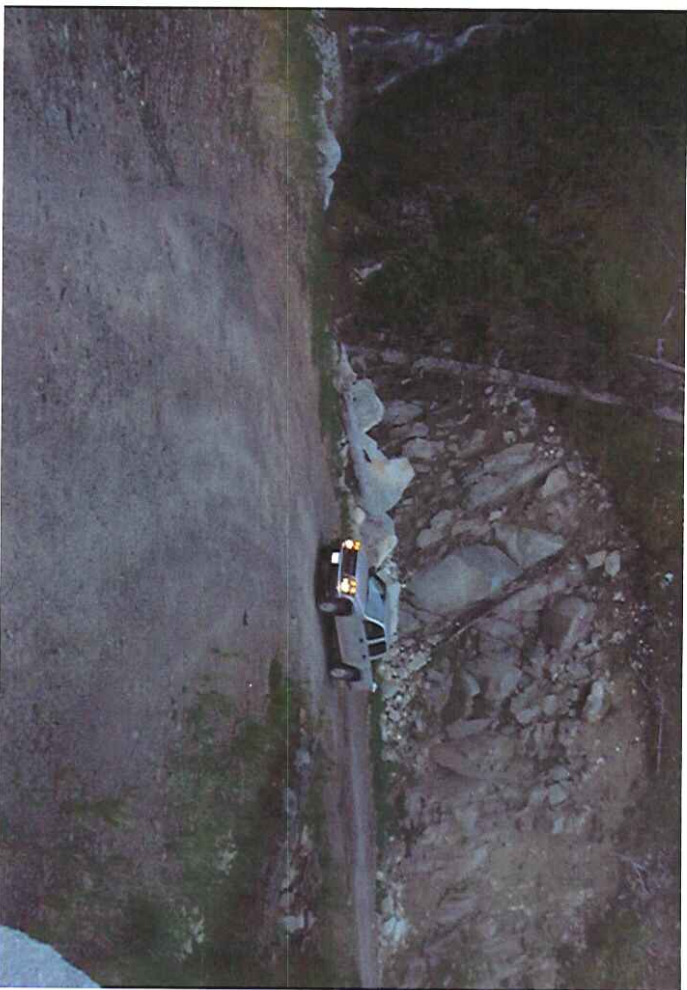
AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	9	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	
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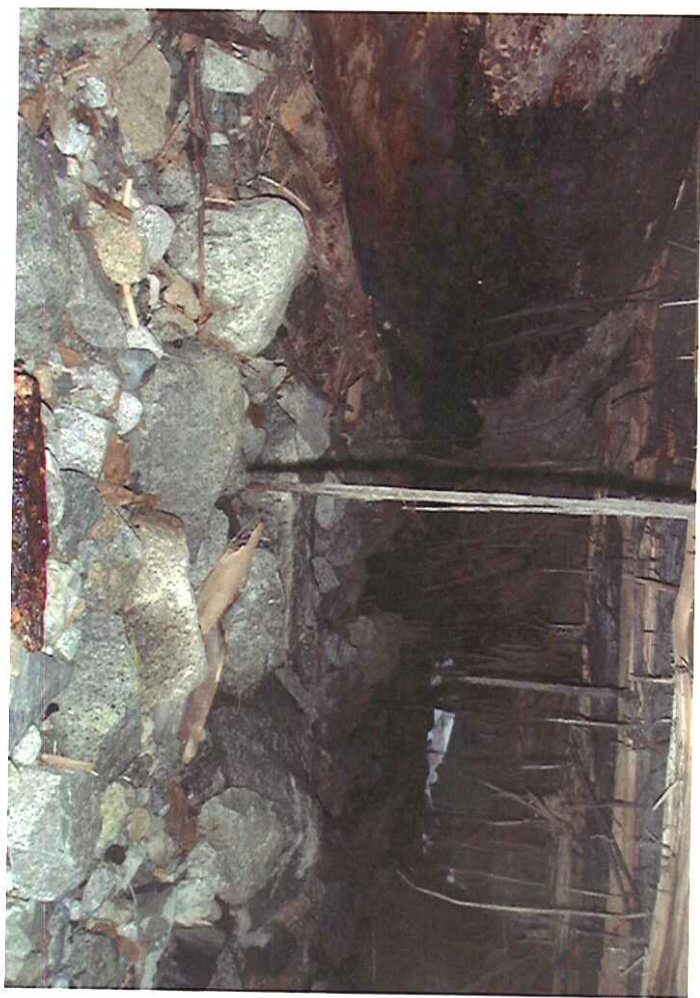
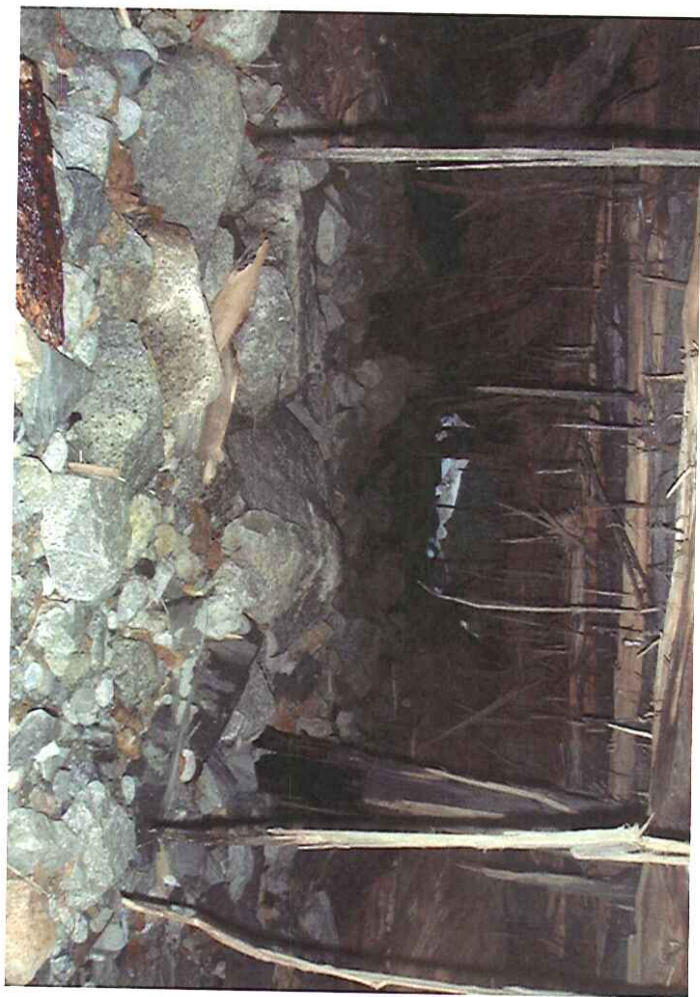
SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

The overall condition of the structure is fair, that said, the stream flow is subsurface from 10m above the structure to 20m below the structure (CK-2003-a5).

INSPECTOR Mark Spence DATE SIGNED: 25-Sep-07 NEW LOAD RATING tonnes: REVIEWED AND NOTED BY: RN DATE SIGNED:







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2204 North Ainslie

10.80 1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Goulah Creek

Chilliwick

5.5 c/c

BCTS

8019.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	Depth of gravel 250 mm	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	500mm curb logs.	Remarks
	Delineators	5	Missing bush side delineators.	Remarks

STRINGERS	Span Number:				Number of Stringers:			Average Stringer Rot Depth For Wood Culvert (mm):						0		Stringer Comments
	1				16											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Diameter mm	470	370	560	620	480	420	520	420	470	460	590	500	500	490	Stringers appear to be less than 1 year old. Stringers 15 and 16 are 450mm and 500mm respectively, both are fir with 0 sap rot.	
Saprot mm	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Species	Fd	Fd	Fd	Fd	Fd	Fd	Fd	FD	Fd	Fd	Fd	Fd	Fd	Fd		

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		6		
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	4	Town side: 2 log high fir crib, top face log is rotten (CK-2204-a3); bottom f	Remarks
	Tie-backs	4	Town side: downstream and middle tiebacks are rotten, upstream tieback	Remarks
	Caps or Sills	3	Sills are placed immediately behind the existing log crib and are in fair con	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	4	Lashing on the original crib is in poor condition. Outside stringers are lash	Remarks
	Fill	3	Retaining fill adequately	Remarks
	Riprap	6	No riprap present, bush side downstream corner has a 3.0m long x 0.3m h	Remarks
	Overall	4	The overall condition of both abutments is poor due to the condition of the	Remarks
APPROACHES		3	Town side: 5% favorable grade. Bush side: Located on a horizontal curve	Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	1.70	ESTIMATED HIGH WATER LEVEL (m):	0.4	HAZARD(S) DESCRIPTION:
						Undermining of the bush side downstream crib corner indicates scour hazards exist.

HAZARDS: Scour

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
Professional Inspection Required?	Yes	Intall delineators at the bush side approach.	

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	5.4
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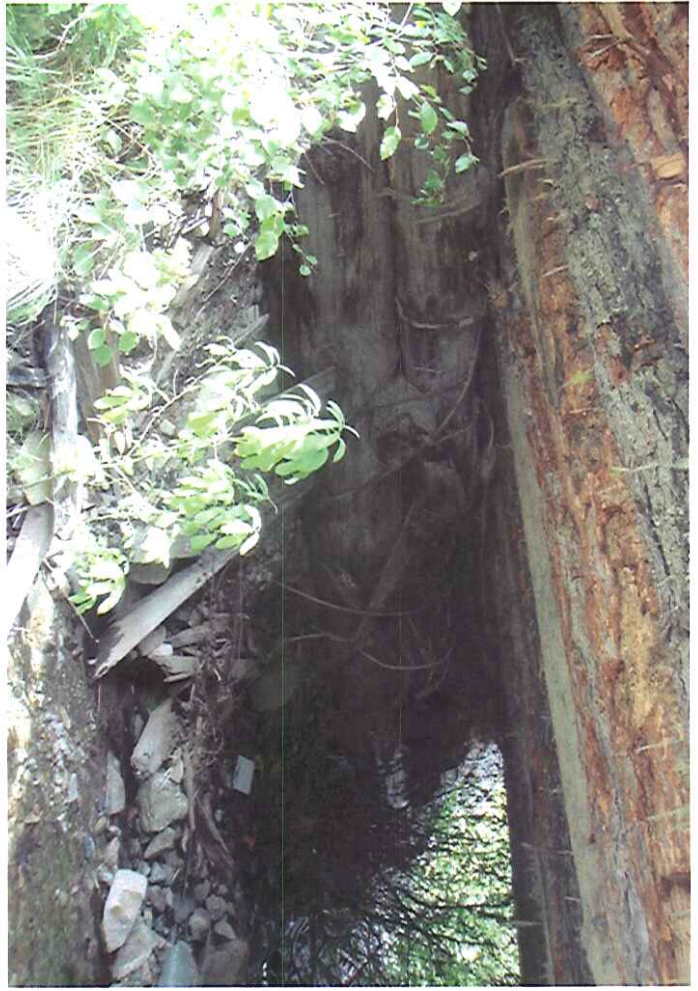
SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the condition of the abutments the overall condition of this structure is poor.
 NEW RATING IS 4.5 OR 4.1 TONNES. PLEASE POST IT AND ADVISE ALL USERS.

INSPECTOR K. MacDonald DATE SIGNED: 24-Sep-07 NEW LOAD RATING tonnes: 4.1
 REVIEWED AND NOTED BY: D. FORBES, P. Eng. RN DATE SIGNED: Nov. 26, 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2260

Stave River

YEAR BUILT:

4.10

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Roaring Creek

Chilliwack

20.6 c/c

BCTS

8013.01

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck; minor spalling at approaches along wheel path (CK-2260)	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	250mm x 250mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3		Remarks
	Hardware	3		Remarks
	Delineators	4	Missing town side upstream delineator, remaining delineators damaged (CK-2260)	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel. Identification: IOTA MPS 70ft, 466, L75, 07/99 (CK-2260-a3)	Remarks
	Diaphragms	3	Weathering steel	Remarks
	Bracing	3	Weathering steel	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	3		Remarks
	Concrete	3	Precast concrete ballast wall. Minor spalling at approaches along wheel path CK	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	6	No access.	Remarks
	Fill	3	Retaining fill adequately.	Remarks
	Riprap	3		Remarks
	Overall	3		Remarks
APPROACHES		3	Potholes at approaches, brush beginning to obscure delineators.	Remarks

PRESENT WATER LEVEL (m):	0.50	PRESENT WATER CLEARANCE	3.40	ESTIMATED HIGH WATER LEVEL (m):	2	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Replace/install delineators; brush out and grade approaches; remove gravel accumulations from edges of panels.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	L75	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: NAD: GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

PREVENT RATING OF L75 OR 68 TONNES TO CONTINUE.

INSPECTOR

Mark Spence

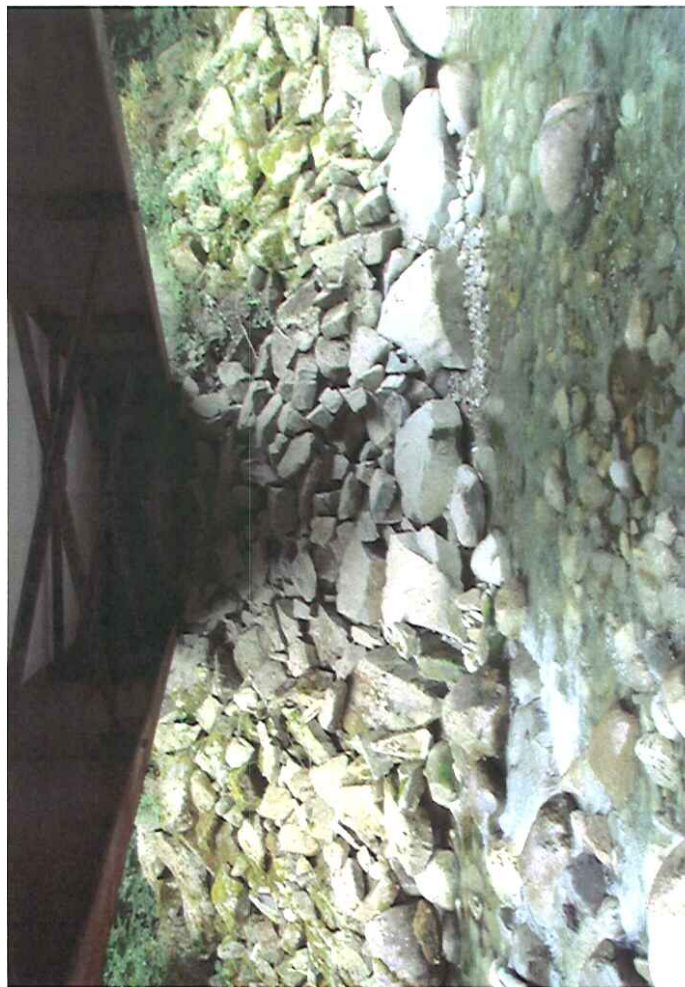
DATE SIGNED: 18-Sep-07

REVIEWED AND NOTED BY:

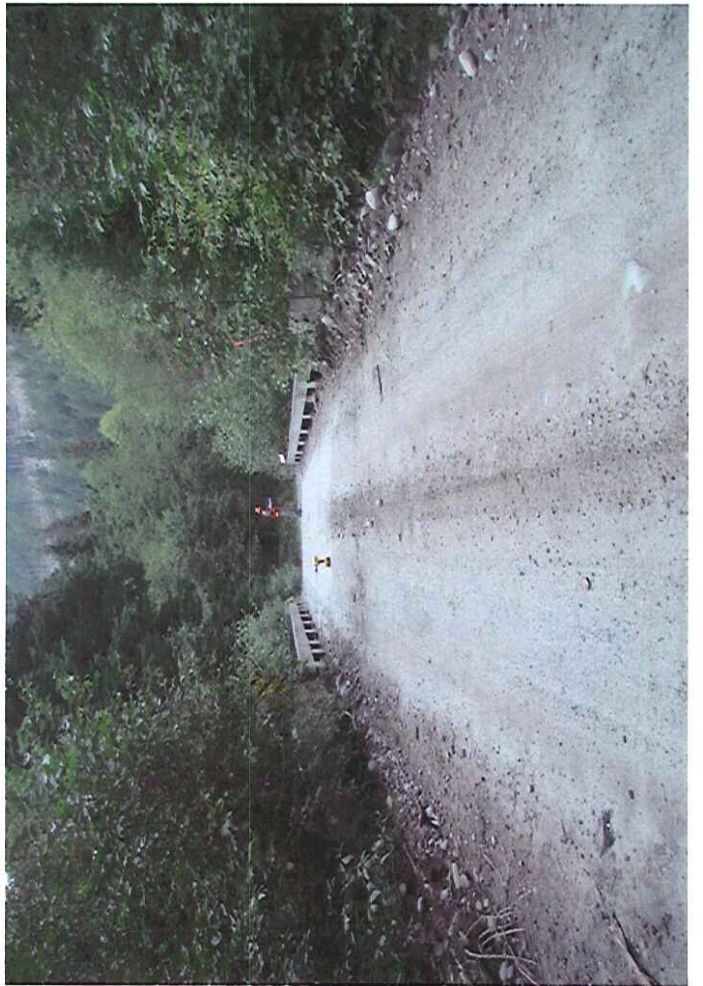
P. FOREK, P. EY.

SIGNED:

11 Nov 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Km:

Page: 1 of 2

Structure Number: Forest Service Road:

CK-2261

Stave River

YEAR BUILT:

8.50

0 0

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Winslow Creek

Chilliwack

13.4 c/c

BCTS

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 2

Stream Classification:

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	3	Town side: 100mm x 300mm, untreated fir.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	3	Town side: 250mm x 250mm untreated fir.	Remarks
	Nails	3		Remarks
	Curbs and Blocks	3	Town side: 250mm x 250mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6	No access.	Remarks
	Hardware	3		Remarks
	Delineators	3	Town side: All delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	4	Town side span: girders are bearing directly on a 1200mm fir sill log that has been notch	
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	4	5 log high cedar box crib, 200mm gaps between face logs, filled with medium to large bou	
	Hardware	4	Pinned and lashed; lashing is loose.	
	Riprap	6	No riprap present.	
	Overall	4		
ABUTMENTS	Cribs	3	Town side crib: 4 log high cedar crib, 800mm average diameter face logs, 20mm	Remarks
	Tie-backs	4	Town side: 4 rows of 3 cedar tie-backs, 600mm average diameter, 50% broken/	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6	3 log high cedar ballast wall.	Remarks
	Wing Wall Planks	4	3 log high cedar log ballast wall, 800mm average diameter face logs, 20mm of s	Remarks
	Bracing	6		Remarks
	Hardware	4	Lashing is loose.	Remarks
	Fill	3	Retaining fill adequately.	Remarks
	Riprap	6	No riprap present.	Remarks
	Overall	4		Remarks
APPROACHES		3	Approaches are located on vertical curve.	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	4.20	ESTIMATED HIGH WATER LEVEL (m):	2	HAZARD(S) DESCRIPTION:
						Large logs and debris deposited upstream and downstream of the bridge, and scour damage to the bush side crib indicated debris and scour hazards exist for this structure.
HAZARDS:		Debris	Scour			
Repair Required?	Yes	Professional Inspection Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
						Install downstream bush side delineator.
AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	15	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
						SUGGESTED REPLACEMENT DATE
						at new load rating:
						at original design load
Comments:	NEW LOAD RATING tonnes: 68 NAD: GPS					

Based on the condition of both the camp and woods end abutment tie-backs and pier sill logs the overall condition for this structure is poor.

LIMIT RATING TO 175 OR 68 TONNES. MONITOR PIER AND CRIBS. INSPECT AFTER STORM EVENT.

INSPECTOR Mark Spence DATE SIGNED: REVIEWED AND NOTED BY: D. Foster, P. Eng. SIGNED: Nov. 26-2008

Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km:

Page 2 Of 2

CK-2261

Stave River

YEAR BUILT:

8.50

0 0

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Winslow Creek

Chilliwack

13.4 c/c

BCTS

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2009 BRIDGE CLAS Permanent

Number of Spans 2

Stream Classification:

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	2		Remarks
	Structural Decking	6	Bush side: 100mm x 300mm untreated fir recently replaced.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	2	Bush side: 250mm x 250mm untreated fir, recently replaced.	Remarks
	Nails	2		Remarks
	Curbs and Blocks	2	Bush side: 250mm x 250mm untreated fir, recently replaced.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6	No access.	Remarks
	Hardware	2		Remarks
	Delineators	4	Bush side: downstream delineator missing.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel. Bridg ID: Ministry of Forests, L100, 14.2m, Mar 97, WO1255	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
PIERS	Caps		Refer to town side span.	
	Piles or Posts		Refer to town side span.	
	Concrete		Refer to town side span.	
	Bracing or Sheat		Refer to town side span.	
	Cribs		Refer to town side span.	
	Hardware		Refer to town side span.	
	Riprap		Refer to town side span.	
	Overall		Refer to town side span.	
ABUTMENTS	Cribs	3	Bush side: 4 log high cedar crib, 1000mm average diameter face logs, 15mm sap rot.	Remarks
	Tie-backs	4	Bush side: 4 rows of 4 cedar tie-backs, 500mm average diameter with a 190mm	Remarks
	Bin Walls	4		Remarks
	Caps or Sills	4	Bush side: 950mm fir sill log, 15mm sap rot.	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	Precast concrete ballast wall.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	4	Lashing is loose.	Remarks
	Fill	4	Large gaps between face logs have resulted in fines eroded from back fill.	Remarks
	Riprap	4	Riprap added to upstream and downstream corners post construction.	Remarks
	Overall	4		Remarks
APPROACHES		3	Located on vertical curve.	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	4.20	ESTIMATED HIGH WATER LEVEL (m):	2	HAZARD(S) DESCRIPTION:
						Large logs and debris deposited upstream and downstream of the bridge, and scour damage to the bush side crib indicated debris and scour hazards exist for this structure.

HAZARDS:	Debris	Scour		REPAIR DESCRIPTIONS AND COST ESTIMATE:
Repair Required?	Yes	Professional Inspection Required?	Yes	Install downstream bush side delineator.

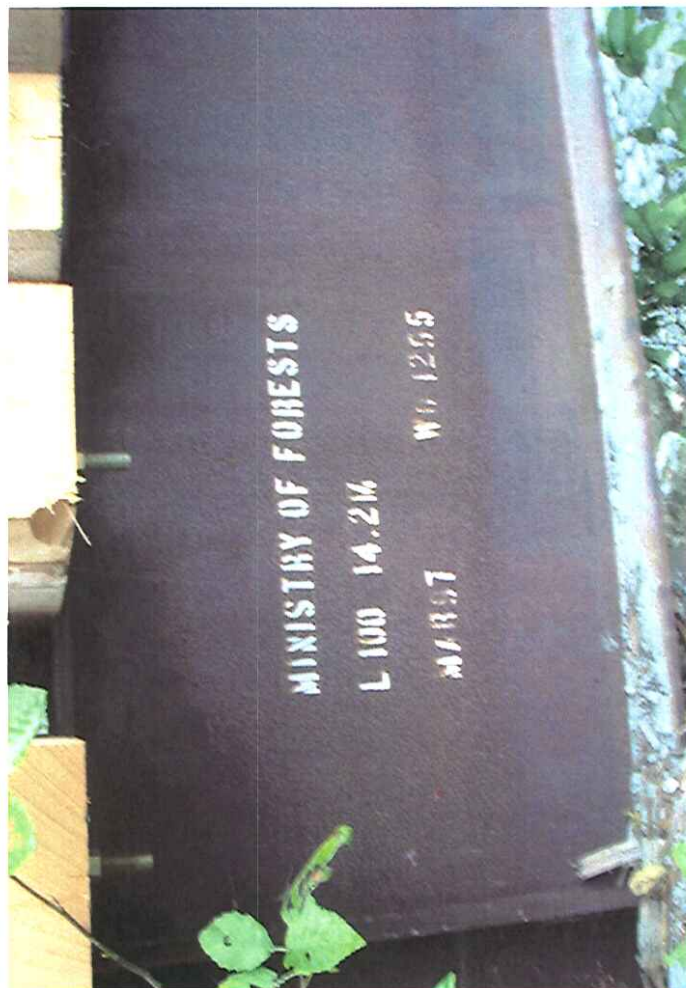
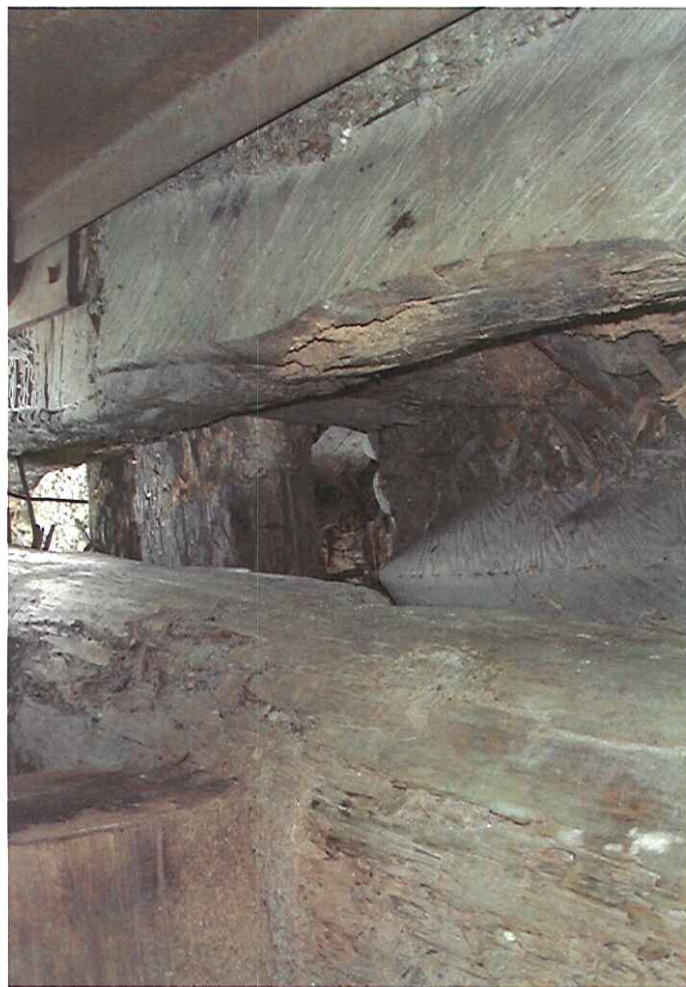
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	15	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

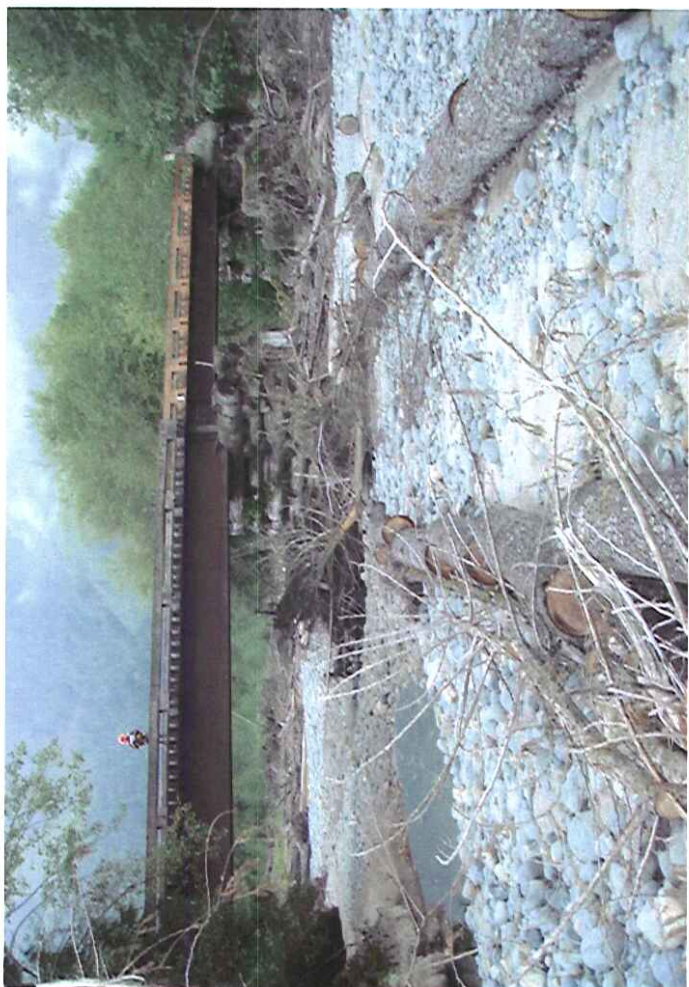
Comments:	NEW LOAD RATING tonnes:	68	NAD:	GPS					
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Based on the condition of both the camp and woods end abutment tie-backs and pier sill logs the overall condition for this structure is poor.

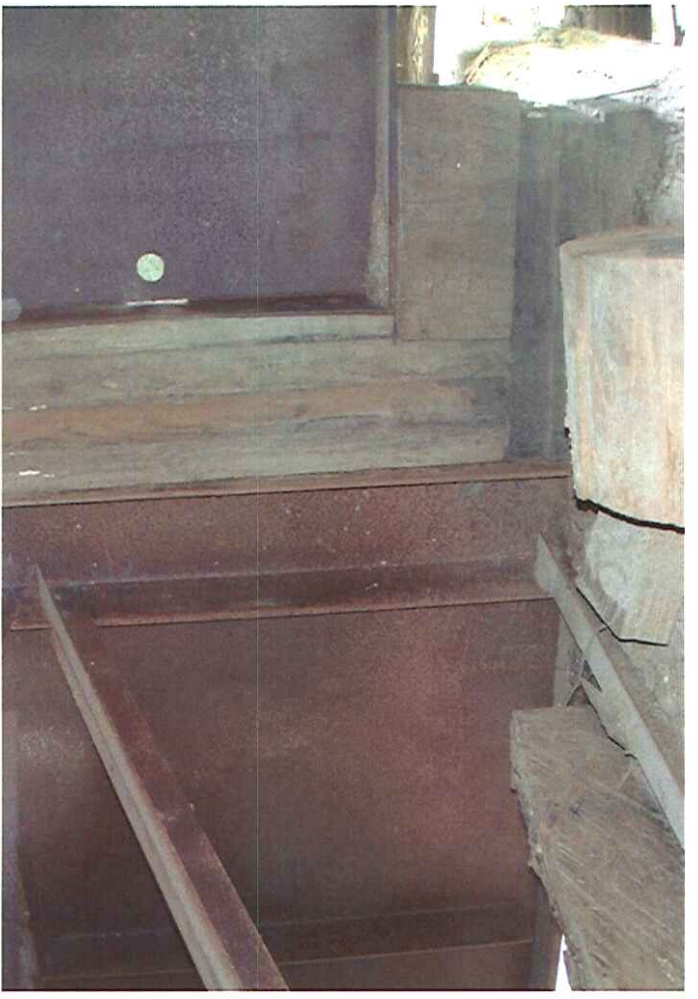
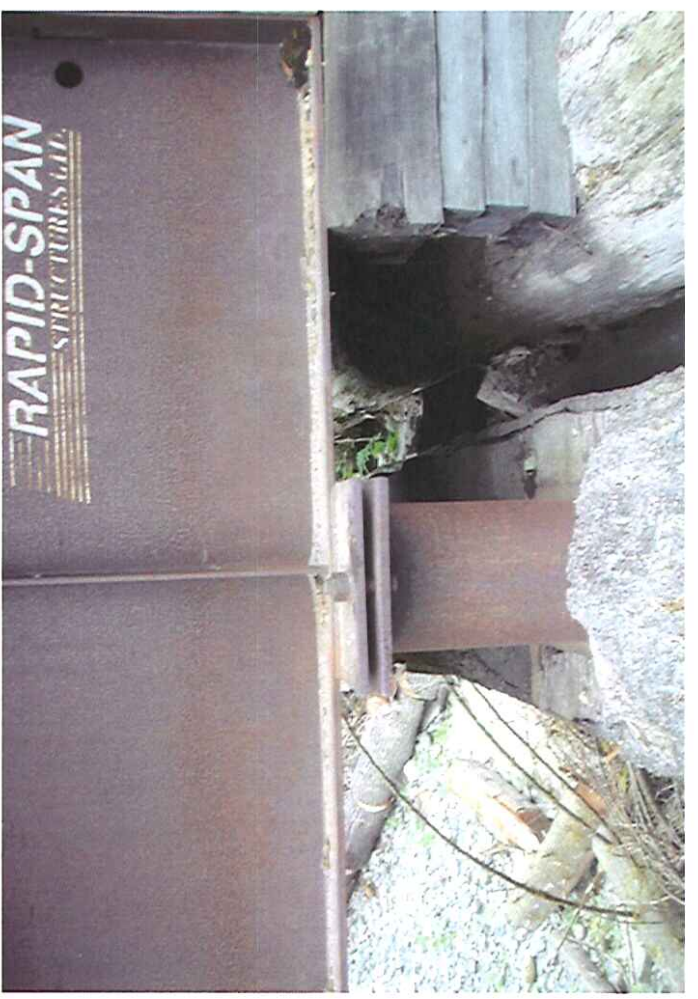
- see page 1 of 2 -

INSPECTOR Mark Spence DATE SIGNED: REVIEWED AND NOTED BY: P. Foster, P. Eng. SIGNED: Nov 26 2008









Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2262

Stave River

10.50

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

8.8 c/c

BCTS

8013.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	300mm gravel cover.	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	400mm cedar curb logs.	Remarks
	Delineators	3	All delineators present.	Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):						15		Stringer Comments
	1				7												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14			
	Diameter mm	870	700	780	690	600	800	800									
	Rot mm	20	5	20	20	30	10	20									
Species	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw									

All stringers have large knots throughout.

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		6		
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 2 log high cedar crib, 700mm average diameter face logs, 20m	
	Tie-backs	3	Town side: 2 rows of 3 cedar tie-backs (450mm) with 30mm sap rot. Bush	
	Caps or Sills	6		
	Piles or Posts	6		
	Concrete	6		
	Bulkhead Planks	6		
	Wing Wall Planks	6		
	Bracing	6		
	Hardware	4	Lashing is loose.	
	Fill	4		
	Riprap	3	No riprap present.	
	Overall	3		
APPROACHES		4	Bush side approach located on a horizontal curve, both approaches brush	

PRESNT WATER LEVEL (m):	0.40	PRESNT WATER CLEARANCE	1.50	ESTIMATED HIGH WATER LEVEL (m):	0.9	HAZARD(S) DESCRIPTION:	
						Debris jam/beaver dam (CK-2262-a3 and a4).	

HAZARDS: Debris

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
Professional Inspection Required?	No	Brush out approaches, remove debris jam/beaver dam.	

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	8	NARROW STRUCTURE SIGNS?	No	PRESNT POSTED RATING tonnes:	
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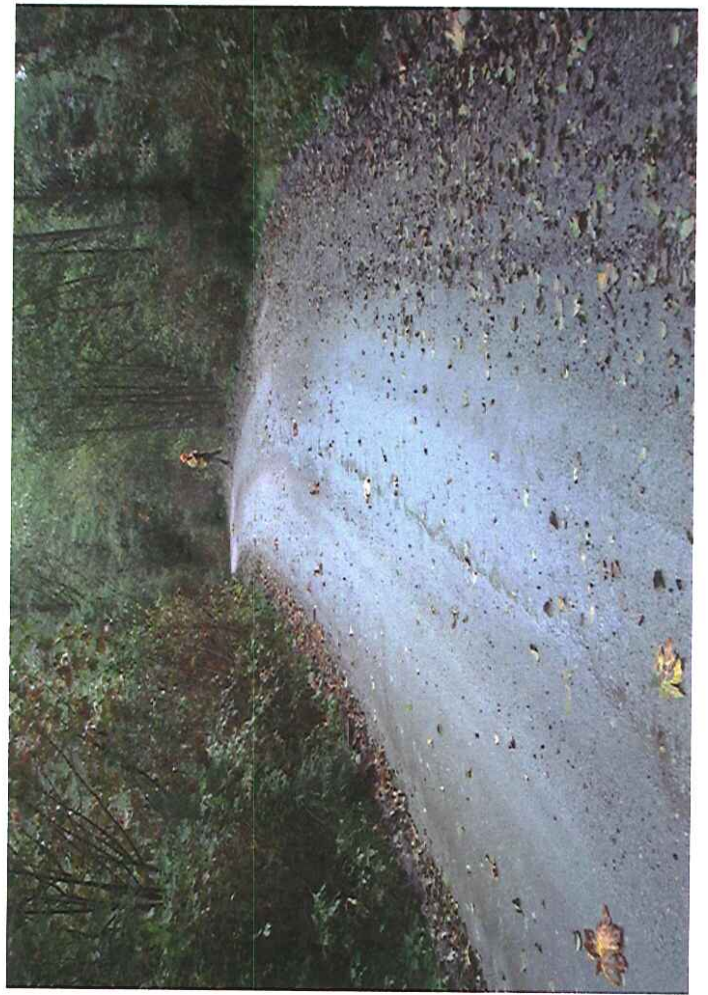
SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

The overall condition of this structure is fair.

PRESENT RATING OF L60 OR 54 TUNNES TO CONTINUE.

INSPECTOR Mark Spence DATE SIGNED: 18-Sep-07 NEW LOAD RATING tonnes:
REVIEWED AND NOTED BY: D. F. B. P. E. Y. RN DATE SIGNED: Nov. 26-2008





Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2263

Stave River

11.40 1 1

Crossing: Side Creek District: Chilliwack Span: 11.0 c/c SBFEP/FRM: BCTS Project Number: 8013.01

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class: Semi Permanent Number of Spans: 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	6 350mm gravel cover, numerous potholes; large potholes at center and midspan of
	Ties	6
	Nails	6
	Curbs and Blocks	6 Present but not functioning due to gravel cover.
	Delineators	4 All delineators present.

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):						15	Stringer Comments
	1				6											Average gap between stringers is 100mm.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Diameter mm	880	910	800	1220	820	970										
Rot mm	10	10	10	15	15	30										
Species	Cw	Cw	Cw	Cw	Cw	Cw										

		CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS		6	
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	3	Town side: 3 log high cedar crib, 800mm average diameter face logs, 30m
	Tie-backs	3	Town side: 500mm average diameter tie-backs, 30mm sap rot. Bush side
	Caps or Sills	6	
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	6	
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	4	Lashing is loose and corroded.
	Fill	3	Retaining fill adequately.
	Riprap	6	No riprap present
	Overall	6	
APPROACHES		4	Brushed in (delineators).

PRESENT WATER LEVEL (m):	0.30	PRESENT WATER CLEARANCE	1.80	ESTIMATED HIGH WATER LEVEL (m):	0.8
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HAZARD(S) DESCRIPTION:

Scouring of town and bush side upstream abutment corners.

HAZARDS: Scour

Repair Required? Yes REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No Grade and brush out approaches.

AS_BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 10 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the large potholes in the gravel cover the overall condition of the structure is poor.

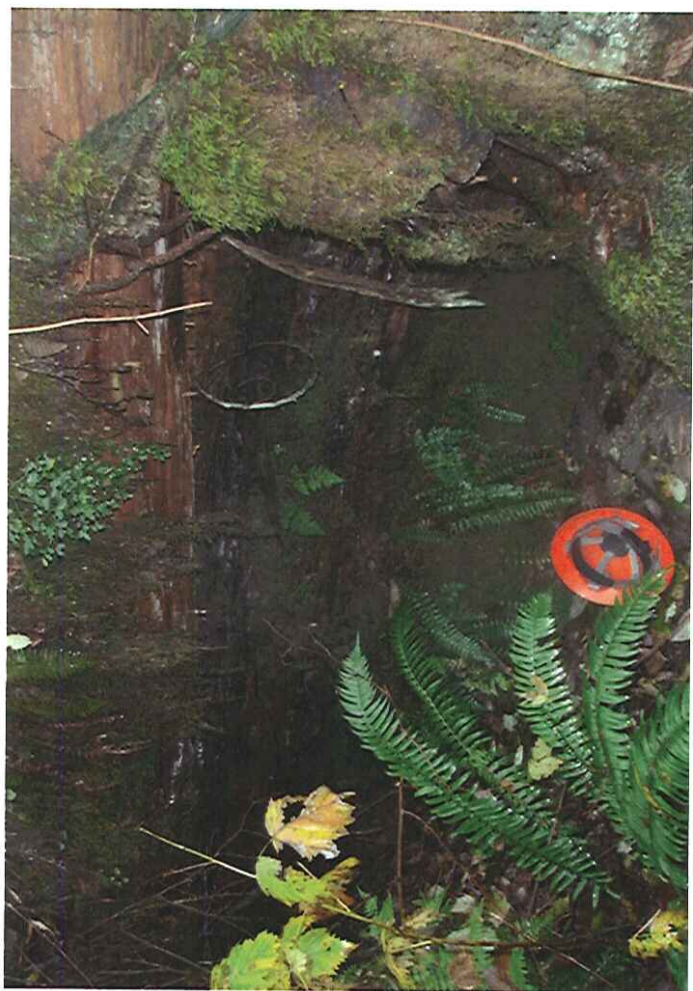
PRESENT RATING OF L60 OR 54 TONNES TO CONTINUE.

INSPECTOR K. MacDonald DATE SIGNED: 24-Oct-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: D. Fobek, P. Eng. RN DATE SIGNED: Nov. 26. 2008







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2265

Stave River

13.20

1

1

Crossing: Side Creek District: Chilliwack Span: 8.45 c/c SBFEP/FRM: BCTS Project Number: 8013.01

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	300mm gravel cover with potholes in running surface (CK-2265-a4).	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	600mm curb logs, 500mm long x 100mm wide gap between upstream curb log and	Remarks
	Delineators	4	Bush side downstream delineator missing. All others need to be repositioned.	Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				30		Stringer Comments
	1				7										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Stringers appear to be very old and in poor condition.
	Diameter mm	580	1010	720	790	720	1100	760							
	Rot mm	20	30	30	100	15	30	40							
	Species	Cw	Cw	Cw	Cw	Cw	Cw	Cw							

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		6		
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 2 log high cedar crib, 600mm average diameter face logs, 45m	Remarks
	Tie-backs	3	Town side: 450mm average diameter tie-backs, 45mm sap rot. Bush side	Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3	Lashing is loose and corroded.	Remarks
	Fill	3		Remarks
	Riprap	5	No riprap present.	Remarks
	Overall	5		Remarks
APPROACHES		3		Remarks

PRESENT WATER LEVEL (m):	0.25	PRESENT WATER CLEARANCE	1.65	ESTIMATED HIGH WATER LEVEL (m):	0.9
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HAZARD(S) DESCRIPTION:

Scour damage at bush side abutment.

HAZARDS: Scour

Repair Required? Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No

Grade gravel cover over stingers, consider replacing structure.

AS_BUILT CHECKED?

No

NUMBER OF PICTURES TAKEN:

15

NARROW STRUCTURE SIGNS?

No

PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT: 2010

at new load rating:

at original design load

✓

Comments:

NAD:

GPS

Based on the condition of the stringers the overall condition of the structure is poor. Consider installing narrow structure signs at approaches.

RATED AT 160 OR 54 TONNES. CONSIDER REPLACEMENT IN 2 YEARS.

INSPECTOR K. MacDonald

DATE SIGNED: 24-Oct-07

NEW LOAD RATING tonnes: 54

REVIEWED AND NOTED BY: D. Fobek, P. Eng.

RN DATE SIGNED:

Nov. 26. 2008









Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

CK-2266

Stave River

Km: Page: Of:

16.80

1

1

Crossing:

Side Creek

District

Chilliwack

Span:

6.8 c/c

SBFEP/FRM:

BCTS

Project Number:

8013.01

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS	
DECK	Running Planks	6	600mm gravel cover.
	Ties	6	
	Nails	6	
	Curbs and Blocks	5	Curb logs present, at gravel deck elevation (CK-2266-a5 and a6).
	Delineators	5	No delineators present.

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				20		Stringer Comments
	1				11										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Diameter mm	450	500	720	610	640	630	640	760	680	730	600				Overall the condition of the stringers is poor; stringers 1,2,5,7,8 and 11 (numbered upstream to downstream) have conk.
Rot mm	225	40	10	20	10	15	20	10	10	11	20				
Species	Fd	Fd	Fd	Fd	Fd	Fd	Fd	Fd	Fd	Fd	Fd				

Overall the condition of the stringers is poor; stringers 1,2,5,7,8 and 11 (numbered upstream to downstream) have conk.

CONDITION		REMARKS	
NEEDLE BEAM(S) SHIMS		6	
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	3	Town side: 2 log high cedar crib, 650mm average diameter face logs, 30m
	Tie-backs	3	Town side: 550mm average diameter tie-backs, 30mm sap rot. Bush side
	Caps or Sills	6	
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	6	
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	4	Lashing is loose and corroded.
	Fill	3	Retaining fill adequately.
	Riprap	6	No riprap present.
	Overall	4	
APPROACHES		3	Minor potholes at approaches (CK-2266-a3 and a4).

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	0.70	ESTIMATED HIGH WATER LEVEL (m):	0	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required? Yes

Professional Inspection Required? No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Install delineators and curb logs; grade approaches.

AS_BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 10 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the poor condition of the stringers, the overall condition of this structure is poor. Consider installing narrow structure signs at approaches.

New Rating is 445 or 41 tonnes. Recommend replacement

INSPECTOR Mark Spence DATE SIGNED: 24-Oct-07 NEW LOAD RATING tonnes: 41

REVIEWED AND NOTED BY: P. Forster, P. Eng. RN DATE SIGNED: Nov. 26. 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2269 Stave River

YEAR BUILT:

21.60

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Stave River

Chilliwack

19.1 c/c

BCTS

8013.01

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2009 BRIDGE CLAS Semi Permanent Perma Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	3	100mm x 300mm untreated fir worn with pockets of rot (CK-2269-a7); water runn	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	3	200mm x 200mm untreated fir ties, spaced 400mm c/c.	Remarks
	Nails	3	Town side: nail heads protruding 5mm (CK-2269-a8).	Remarks
	Curbs and Blocks	3	250mm x 250mm untreated fir curbs; upstream curb has mechanical damage (C	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3	Bolted to girder.	Remarks
	Hardware	3		Remarks
	Delineators	5	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Painted steel, paint flaking	Remarks
	Diaphragms	3	Painted steel, paint flaking.	Remarks
	Bracing	3	Painted steel, paint flaking.	Remarks
	Trussing	6		Remarks
	Hardware	3	Bolted to sill and ballast wall.	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	4	Town side: Abutment transitions from a 2 log high to a 4 log high cedar crib from	Remarks
	Tie-backs	4	Town side: 4 rows of cedar tie-backs, 500mm average diameter, 30mm sap rot.	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	300mm x 300mm untreated fir plank sill.	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	3	100mm x 250mm untreated fir ballast wall planks.	Remarks
	Wing Wall Planks	6	Town side: 6 high cedar bin wall, 800 average diameter face logs with 30mm sap	Remarks
	Bracing	6		Remarks
	Hardware	4	Pinned and lashed.	Remarks
	Fill	4	Town side: refer to crib description above. Bush side: retaining fill adequately.	Remarks
	Riprap	6	No riprap present.	Remarks
	Overall	4	Based on the condition of the town side abutment.	Remarks
APPROACHES		3	Located on horizontal curve, poor drainage has resulted in water running down th	Remarks

PRESENT WATER LEVEL (m):	2.00	PRESENT WATER CLEARANCE	7.30	ESTIMATED HIGH WATER LEVEL (m):	4	HAZARD(S) DESCRIPTION:
						Scouring of town side crib.

HAZARDS:		Scour		REPAIR DESCRIPTIONS AND COST ESTIMATE:
Repair Required?	Yes	Professional Inspection Required?	Yes	Add missing delineators. Control water running under and onto bridge. Professional inspection and monitor town side crib for scour.

AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	22	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	0	NAD:		GPS				
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Due to the condition of the town side crib, the structures overall condition is poor. Once the crib has been replaced the load rating can be increased to the original design load. Monitor town side crib following high rainfall events for further scour damage and collapse. Consider installing narrow structure ahead signs at both approaches

NEW RATING IS 10 TONNES. REPLACE CRIB TO ATTAIN ORIGINAL RATING OF 175 OR 68 TONNES.

INSPECTOR Mark Spence DATE SIGNED: 25-Oct-07 REVIEWED AND NOTED BY: D. Foster, P. Eng SIGNED: Nov 26 2008

Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2269

Stave River

YEAR BUILT:

21.60

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Stave River

Chilliwack

19.1 c/c

BCTS

8013.01

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2009 BRIDGE CLAS Semi Permanent Perma Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	3	100mm x 300mm untreated fir worn with pockets of rot (CK-2269-a7); water runn	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	3	200mm x 200mm untreated fir ties, spaced 400mm c/c.	Remarks
	Nails	3	Town side: nail heads protruding 5mm (CK-2269-a8).	Remarks
	Curbs and Blocks	3	250mm x 250mm untreated fir curbs; upstream curb has mechanical damage (C	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3	Bolted to girder.	Remarks
	Hardware	3		Remarks
	Delineators	5	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Painted steel, paint flaking	Remarks
	Diaphragms	3	Painted steel, paint flaking.	Remarks
	Bracing	3	Painted steel, paint flaking.	Remarks
	Trussing	6		Remarks
	Hardware	3	Bolted to sill and ballast wall.	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	4	Town side: Abutment transitions from a 2 log high to a 4 log high cedar crib from	Remarks
	Tie-backs	4	Town side: 4 rows of cedar tie-backs, 500mm average diameter, 30mm sap rot.	Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	300mm x 300mm untreated fir plank sill.	Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	3	100mm x 250mm untreated fir ballast wall planks.	Remarks
	Wing Wall Planks	6	Town side: 6 high cedar bin wall, 800 average diameter face logs with 30mm sap	Remarks
	Bracing	6		Remarks
	Hardware	4	Pinned and lashed.	Remarks
	Fill	4	Town side: refer to crib description above. Bush side: retaining fill adequately.	Remarks
	Riprap	6	No riprap present.	Remarks
	Overall	4	Based on the condition of the town side abutment.	Remarks
APPROACHES		3	Located on horizontal curve, poor drainage has resulted in water running down th	Remarks

PRESENT WATER LEVEL (m):	2.00	PRESENT WATER CLEARANCE	7.30	ESTIMATED HIGH WATER LEVEL (m):	4	HAZARD(S) DESCRIPTION:
						Scour damage at town side abutment.

HAZARDS: Scour

Repair Required?	Yes	Professional Inspection Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Repair town side abutment downstream corner; replace curbs and deck; install delineators; provide adequate drainage at approaches.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	22	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: NAD: GPS

Based on the condition of the bush side downstream corner the overall condition of this structure is poor.

INSPECTOR

Mark Spence

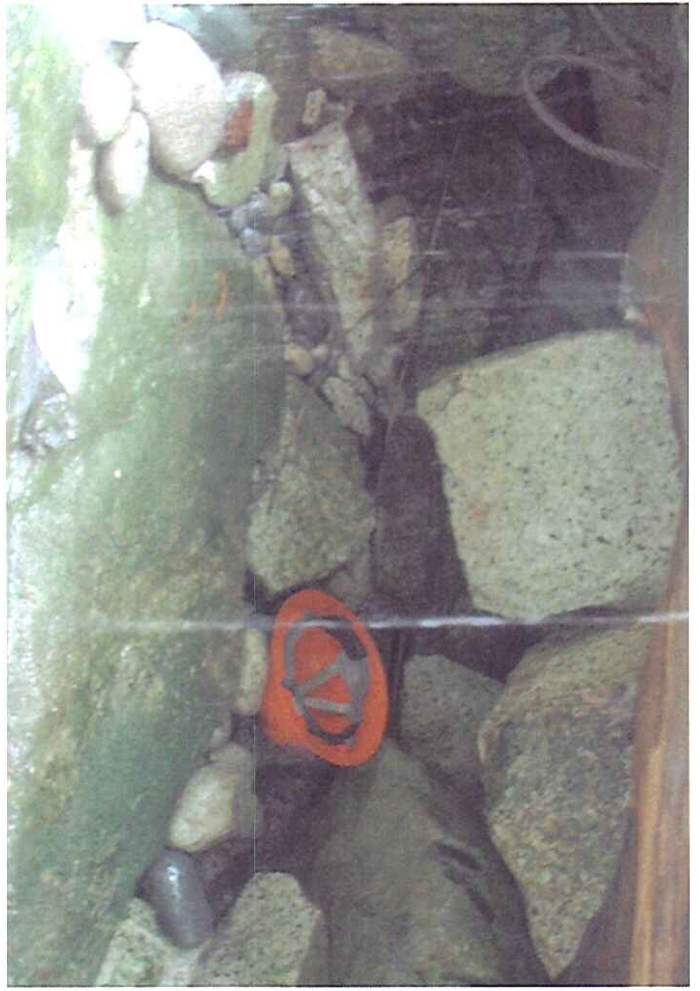
DATE SIGNED: 25-Oct-07

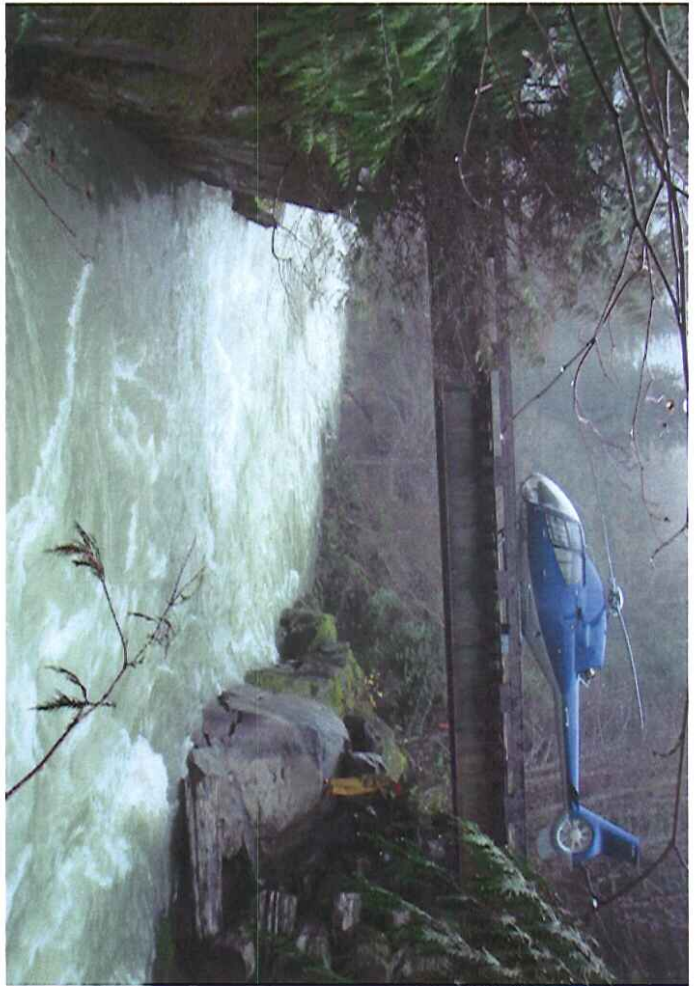
REVIEWED AND NOTED BY:

SIGNED:

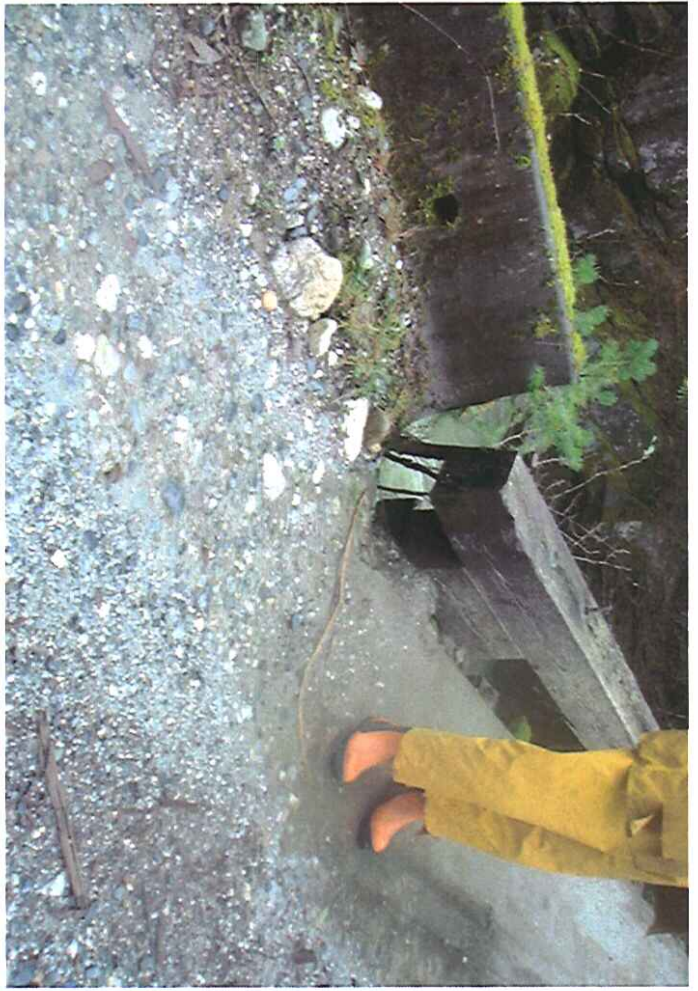












Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2270

Stave River

23.60

1

1

Crossing: Side Creek District: Chilliwack Span: 13.5 c/c SBFEP/FRM: BCTS Project Number: 8013.01

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	3 50mm x 300mm untreated fir running planks on top of 50mm x 300mm untreated
	Ties	5 200mm x 200mm untreated fir, 40mm sap rot, spaced 450mm C/C, installed at a 4
	Nails	3
	Curbs and Blocks	4 400mm cedar curb log with 100mm sap rot (CK-2270-a4).
	Delineators	5 No delineators present.

STRINGERS	Span Number:				Number of Stringers:			Average Stringer Rot Depth For Wood Culvert (mm):						10	Stringer Comments
	1				6										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Diameter mm	730	900	850	700	1000	780									
Rot mm	10	10	10	10	10	10									
Spacing mm	200	250	200	200	200	200									

All stringers are spruce.
Stringer 3 and 4 have konk.

All stringers are spruce.
Stringer 3 and 4 have konk.

	CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS	6	
PIERS	Caps	6
	Piles or Posts	6
	Concrete	6
	Bracing or Sheat	6
	Cribs	6
	Hardware	6
	Riprap	6
	Overall	6
ABUTMENTS	Cribs	3 Town side: 2 log high cedar crib, 900mm average diameter face logs, 30m
	Tie-backs	3 Town side: 1 row of 4, 500mm average diameter tie-backs, 30mm sap rot.
	Caps or Sills	6
	Piles or Posts	6
	Concrete	6
	Bulkhead Planks	6
	Wing Wall Planks	3 Bush side: 1 log high cedar log wing wall.
	Bracing	6
	Hardware	3
	Fill	3
APPROACHES	Riprap	4 Town side: Majority of crib is on bed rock. Bush side: Riprap present at
	Overall	4
		3 Bush side located on a horizontal curve.

PRESENT WATER LEVEL (m):	0.40	PRESENT WATER CLEARANCE	2.10	ESTIMATED HIGH WATER LEVEL (m):	1.4
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HAZARD(S) DESCRIPTION:

Scour damage at town side abutment.

HAZARDS: Scour

Repair Required? Yes REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No Install delineators, consider replacing bridge.

AS_BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 13 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes: L45

SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the condition of the ties overall condition of the structure is poor. Consider installing narrow structure signs at approaches. L45 load rating sign at town side (CK-2270-a9). PRESENT RATING OF L45 OR 41 TONNES TO CONTINUE.

INSPECTOR Mark Spence DATE SIGNED: 25-Oct-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: D. ROBEK, P. Eng. RN DATE SIGNED: Nov. 26-2008









Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2271

Stave River

YEAR BUILT: 1998

26.20

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Stave River

Chilliwack

23.2 c/c

BCTS

8013.01

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	3	100mm x 300mm untreated fir planks worn with pockets of rot; gravel accumulation	Remarks
	Structural Decking	3	100mm x 300mm treated fir planks.	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	3	200mm x 250mm treated fri ties, spaced 400mm c/c.	Remarks
	Nails	3		Remarks
	Curbs and Blocks	3	200mm x 200mm untreated fir curbs.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3	Every 5th tie is bolted to girder.	Remarks
SUPER-STRUCTURE	Delineators	5	No delineators present.	Remarks
	Girders / Slabs	3	Weathering steel. ID: MOF, L75, June 98.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
SPAN #	Hardware	3	Weathering steel.	Remarks
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3		Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	3	Town side: cast in place concrete pads.	Remarks
	Bulkhead Planks	3	Town side/Bush side: 5 high 150mm x 300mm treated fir planks.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	3	Town side: bedrock. Bush side: Large angular rock well placed; 1:1 slope.	Remarks
	Overall	6		Remarks
APPROACHES		3	Located on horizontal curve.	Remarks

PRESSENT WATER LEVEL (m):	2.00	PRESSENT WATER CLEARANCE	2.20	ESTIMATED HIGH WATER LEVEL (m):	3	HAZARD(S) DESCRIPTION:
HAZARDS:				None		
Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
				Install delineators at approaches.		
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESSENT POSTED RATING tonnes:
						SUGGESTED REPLACEMENT DATE
						at new load rating:
						at original design load
Comments:	NEW LOAD RATING tonnes:		NAD:		GPS	

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

PRESENT RATING OF L75 OR 68 TONNES TO CONTINUE.

INSPECTOR

Mark Spence

DATE SIGNED: 25-Oct-07

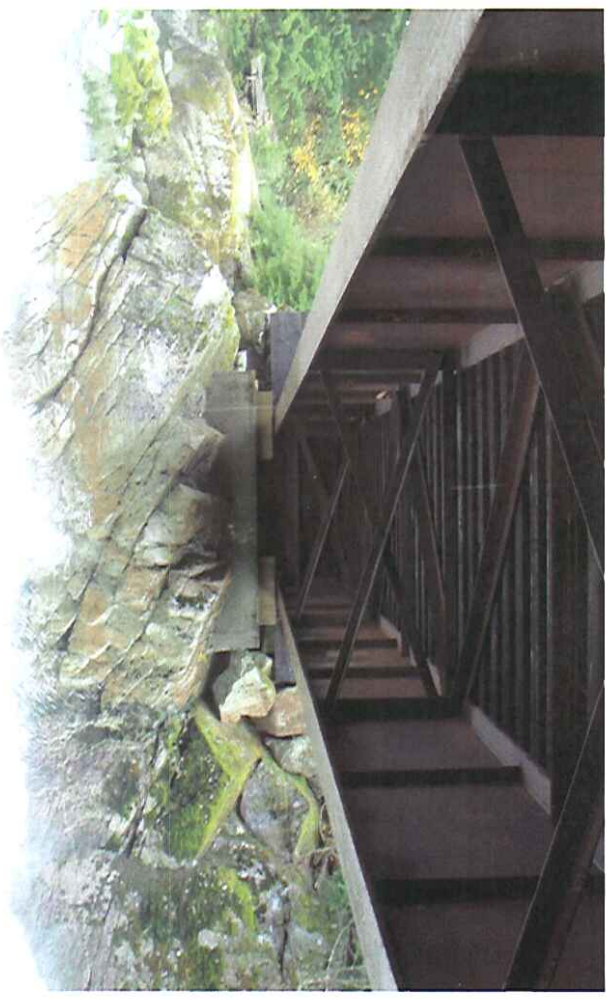
REVIEWED AND NOTED BY:

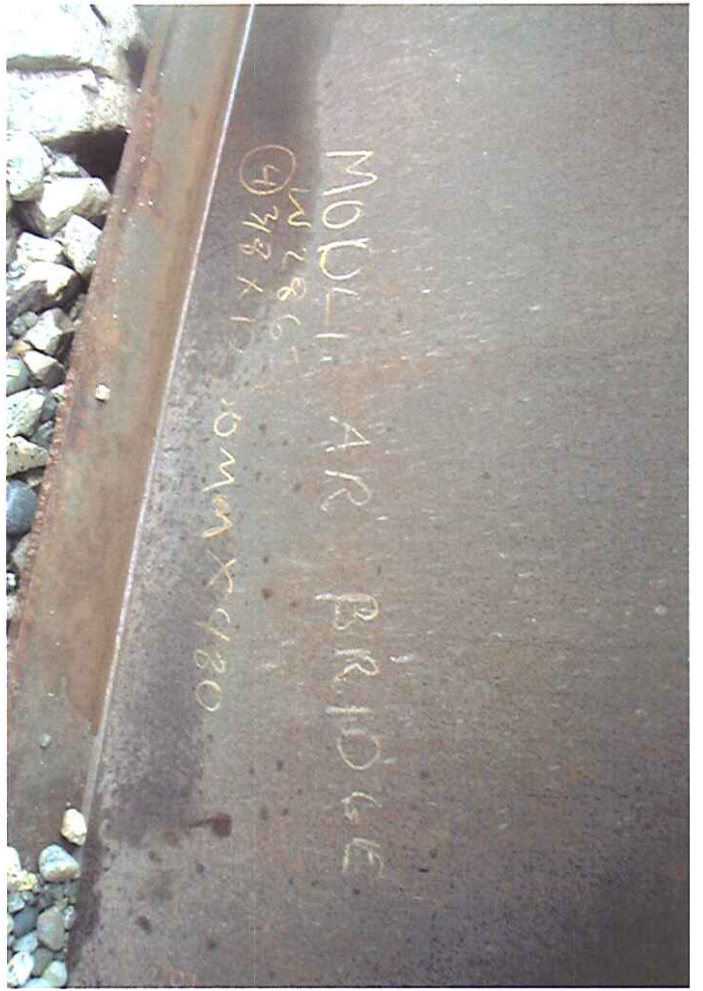
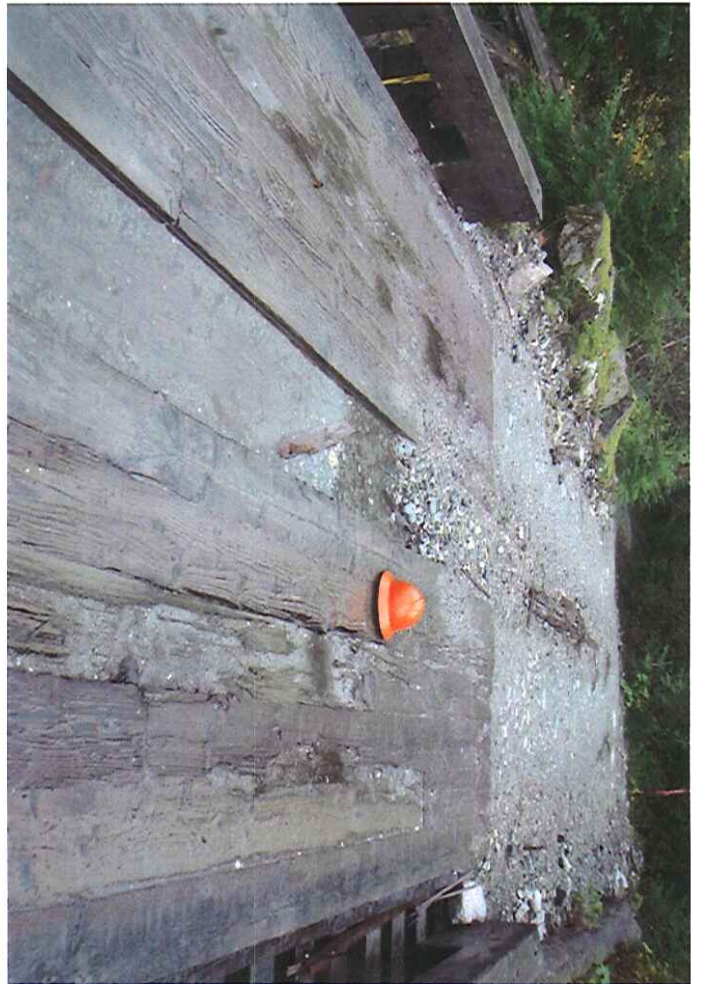
D. F. F. Eng.

SIGNED:

Nov. 26. 2008

* These photos were labeled as 2272 by contractor







Photos for 2272 appear to be mislabeled as
2271 RM

* These photos were labeled as 2271 by conf rafter





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

100mm x 3700mm

Structure Number: Forest Service Road:

CK-2273

Stave River

Km:

30.90

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013

Date of this
Inspection:

M:

10

Y:

2007

Date of Next
Inspection:

M:

10

Y:

2010

BRIDGE CLASS
CULVERT

Year Built:

Number of

Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3	Small to medium sized woody debris jam at inlet (CK-227)	Remarks
Outlet	3		Remarks
Bolts	3		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1400mm cover.	Remarks
Riprap	3		Remarks
Road Approaches	3		Remarks
Overall	3		Remarks

PRESENT WATER LEVEL	0.40	PRESENT WATER CLEARANCE (m):	2.00	ESTIMATED HIGH WATER LEVEL (m):	0.8	HAZARD(S) DESCRIPTION:
						Small to medium sized woody debris at inlet.

HAZARDS

	Debris			
--	--------	--	--	--

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	Remove woody debris from inlet.
As-Built Checked?	No	NUMBER OF PICTURES TAKEN: 5.00
		Narrow Structure Signs? PRESENT POSTED No RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:	at original design load:
---------------------	--------------------------

Comments:

The overall condition of the structure is fair.

PREVENT RATING OF 175 OR 60 TONNES TO CONTINUE.

INSPECTOR

Mark Spence

DATE SIGNED:

25-Oct-07

NAD:

REVIEWED AND NOTED BY:

D. ROSEK, P. Eng.

RN DATE SIGNED:

Nov 26 2007

NEW LOAD RATING tonnes:

GPS





Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2274

Stave River

31.60

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

6.4 c/c

BCTS

8013.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	6
	Ties	6
	Nails	6
	Curbs and Blocks	6
	Delineators	5
		300mm gravel depth. Gap between stringer 1 and stringer 2; stringer 1 has shifted
		No delineators present.

STRINGERS	Span Number:			Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):					15		Stringer Comments
	1			13											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Limited access due to beaver dam (CK-2274-a6 to a8).
Diameter mm										700	600	740	900		
Rot mm										15	10	10	20		
Species										Yc	Cw	Cw	Cw		

NEEDLE BEAM(S) SHIMS	CONDITION	REMARKS
PIERS	6	
Caps	6	
Piles or Posts	6	
Concrete	6	
Bracing or Sheat	6	
Cribs	6	
Hardware	6	
Riprap	6	
Overall	6	
ABUTMENTS	6	
Cribs	6	
Tie-backs	6	
Caps or Sills	3	Town side: 1400mm cedar sill with 10mm sap rot. Undermined at outlet (C)
Piles or Posts	6	
Concrete	6	
Bulkhead Planks	6	
Wing Wall Planks	6	
Bracing	6	
Hardware	5	Lashing is loose.
Fill	3	
Riprap	6	No riprap present.
Overall	3	
APPROACHES	3	Potholes at approaches.

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	1.20	ESTIMATED HIGH WATER LEVEL (m):	0.6	HAZARD(S) DESCRIPTION:
						Sills undermined at outlet. Woody debris jam throughout structure, wet land formed by beaver dam at inlet (CK-2276-a9).

HAZARDS: Debris Scour

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	Relash stringers. Clean out debris. Grade road. Install delineators.

AS BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	13	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
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SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS:

The overall condition of the structure is fair, consider installing narrow structure signs at approaches.

Retain previous load rating of 5 tonnes. Please confirm this is original bridge and has not recently been replaced.

INSPECTOR K. MacDonald DATE SIGNED: 17-Sep-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: J. Dohm, PEng RN DATE SIGNED: Dec 9/08









Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

900mm x 3700m

Structure Number: Forest Service Road:

CK-2275

Stave River

Km: Page: Of:

32.80 1 1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

09

Date of Next
Inspection:

M:

09

Y: 2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of

Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	4	500mm bedload at inlet which tapers to 200mm at outlet.	Remarks
Outlet	3		Remarks
Bolts	3		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	800mm gravel fill.	Remarks
Riprap	3	Over steepened 1:1 slope, well placed.	Remarks
Road Approaches	3	Located on a bush side vertical curve.	Remarks
Overall	4		Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.75	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
						Large bedload at culvert inlet.

HAZARDS

	Debris			
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		Remove inlet bed load and create a sump immediately upstream of culvert inlet.			
Professional Inspection Required?	No				
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	5.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		68

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of the structure is fair.

*Remove bed load from culvert.
Retain present load rating of 1.75 (68 tonnes)*

INSPECTOR

K. MacDonald

DATE SIGNED: 17-Sep-07

NAD:

REVIEWED AND NOTED BY:

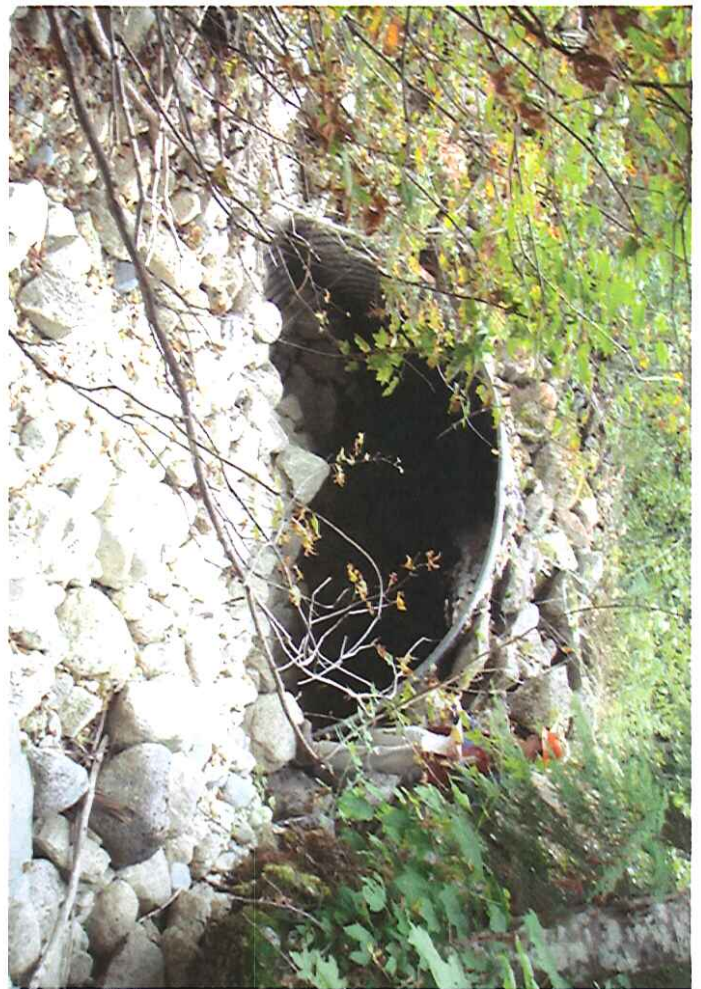
H. Dohm, P. Eng.

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:

GPS





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2277

Stave - Winslow Creek

YEAR BUILT:

0.90

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Beaver Dam Creek

Chilliwack

9.0 c/c

BCTS

8013.02

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	3 slab compo girder. Minor spalling at town and bush side slab edges (CK-2277-	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	4	250mm x 250mm untreated fir curbs with 100mm shell thickness remaining (CK-	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3		Remarks
	Delineators	3	Delineators present but damaged.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Concrete slabs.	Remarks
	Diaphragms	6		Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6		Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	200mm x 250mm treated fir sills (CK-2277-a6).	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	3 high lock block abutment.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	3	Riprap undersized and minimal amounts present.	Remarks
	Overall	3		Remarks
APPROACHES	3		Potholes at approaches, brushed in. No post barriers at approaches.	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	1.60	ESTIMATED HIGH WATER LEVEL (m):	0.4	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Replace damaged delineators. Replace curb rails. Monitor spalling at approaches.

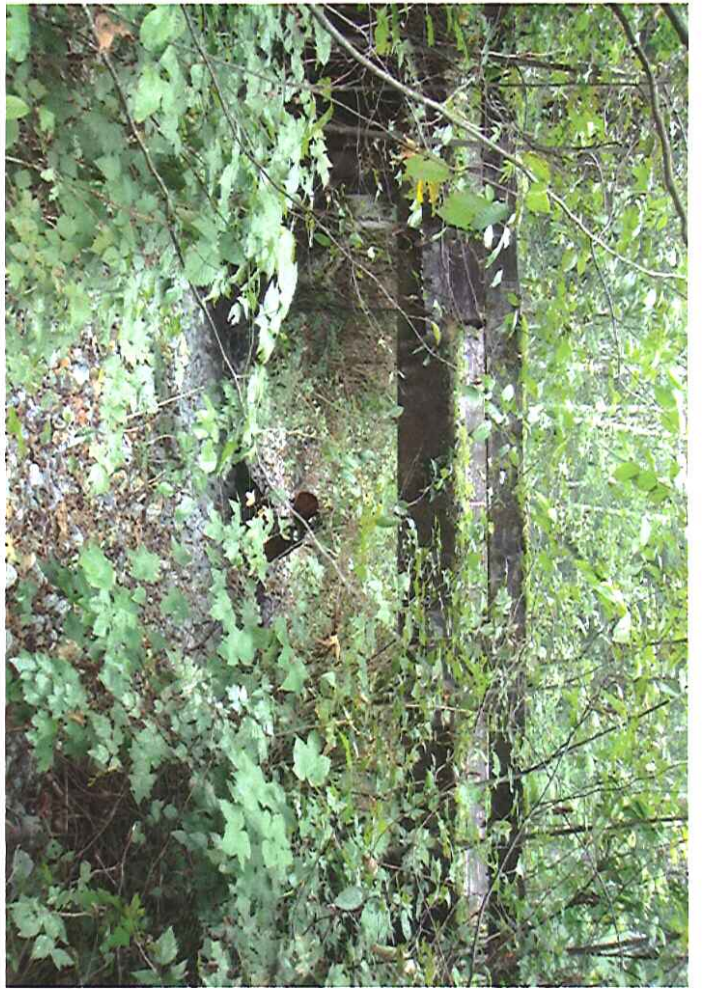
AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: NAD: GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

Retain present load rating of L75 (68 tonnes)

INSPECTOR Mark Spence DATE SIGNED: 18-Sep-07 REVIEWED AND NOTED BY: H. Dohm, Peng SIGNED: Dec/08







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2315

Wray-Berkey Creek

4.20

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Berkey Creek

Chilliwack

7.9 c/c

BCTS

8113.02

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS
DECK	Running Planks	5	100mm x 250mm untreated fir with 30mm of sap rot. Planks are crushed at wheel
	Ties	5	200mm x 200mm untreated fir with 60mm of sap rot. 50% of the ties are rotten (CK-2315-a8)
	Nails	4	
	Curbs and Blocks	5	200mm x 200mm untreated fir with 70mm of sap rot (CK-2315-a8).
	Delineators	4	Only town side upstream delineator is present.

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				150		Stringer Comments
	1				5										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Diameter mm	700	750	590	660	580										Conk on underside of stringer 5 (CK-2315-a6).
Rot mm	300	100	70	40	250										
Species	Df	Df	Df	Df	Df										

		CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS		6	
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	3	Town side / Bush side: 3 log high cedar crib, 650mm average diameter fa
	Tie-backs	3	Town side / Bush side: 2 rows of 3 cedar tie-backs, 400 mm average diam
	Caps or Sills	6	
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	4	200mm x 200mm untreated fir spacers between stringers.
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	4	Lashing is loose and heavily corroded.
	Fill	4	
	Riprap	4	Riprap has been stacked vertically at the upstream and downstream corn
	Overall	4	
APPROACHES		4	Approaches are brushed, and ballast has been washed away from the road

PRESENT WATER LEVEL (m):	0.40	PRESENT WATER CLEARANCE	2.90	ESTIMATED HIGH WATER LEVEL (m):	1.6	HAZARD(S) DESCRIPTION:
						Collapse of bush side downstream corners riprap indicates a scour hazard exists for this structure.

HAZARDS: Scour

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	
		Replace bridge.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	12	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
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SUGGESTED REPLACEMENT: at new load rating: at original design load

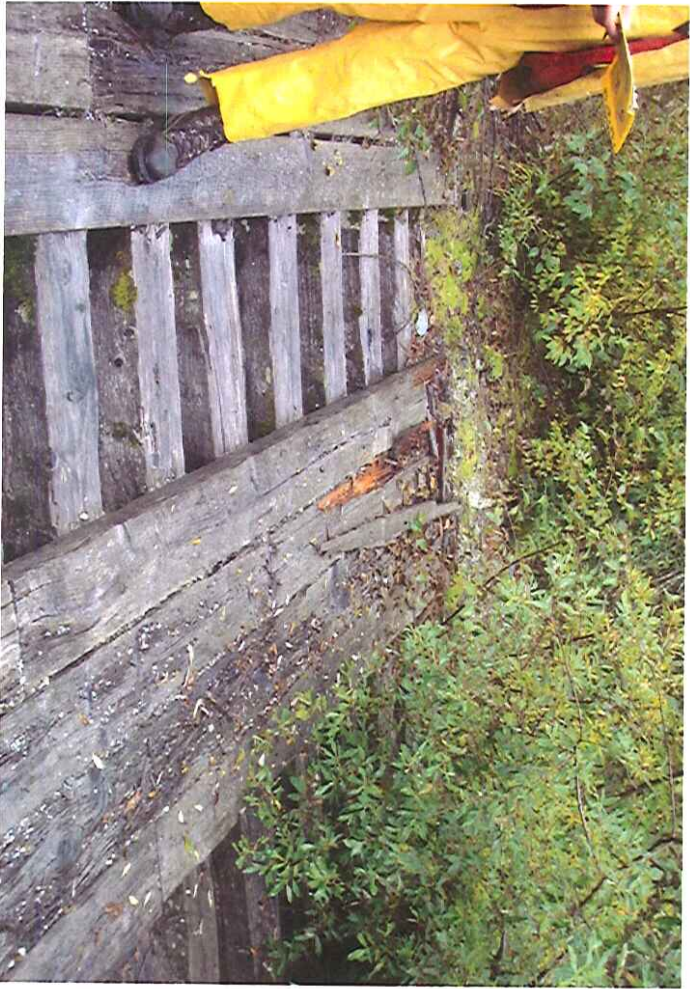
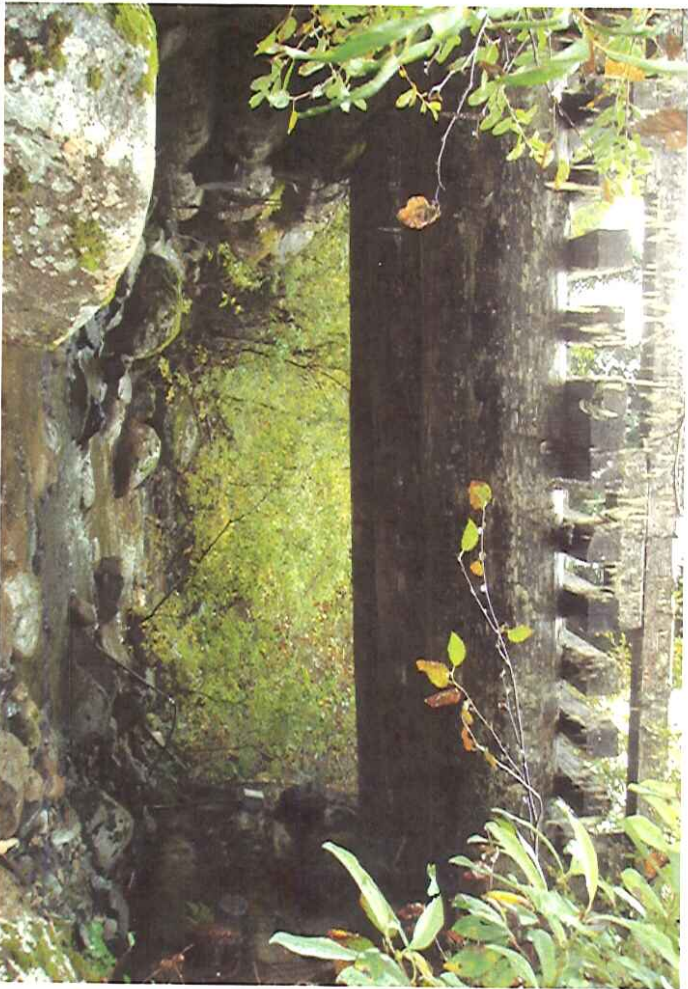
Comments: NAD: GPS

Based on the very poor condition of the curbs, deck, ties and the poor condition of the stringers the overall condition of this structure is poor. We recommend this structure be replaced with one that meets the hydrological requirements of the drainage area.

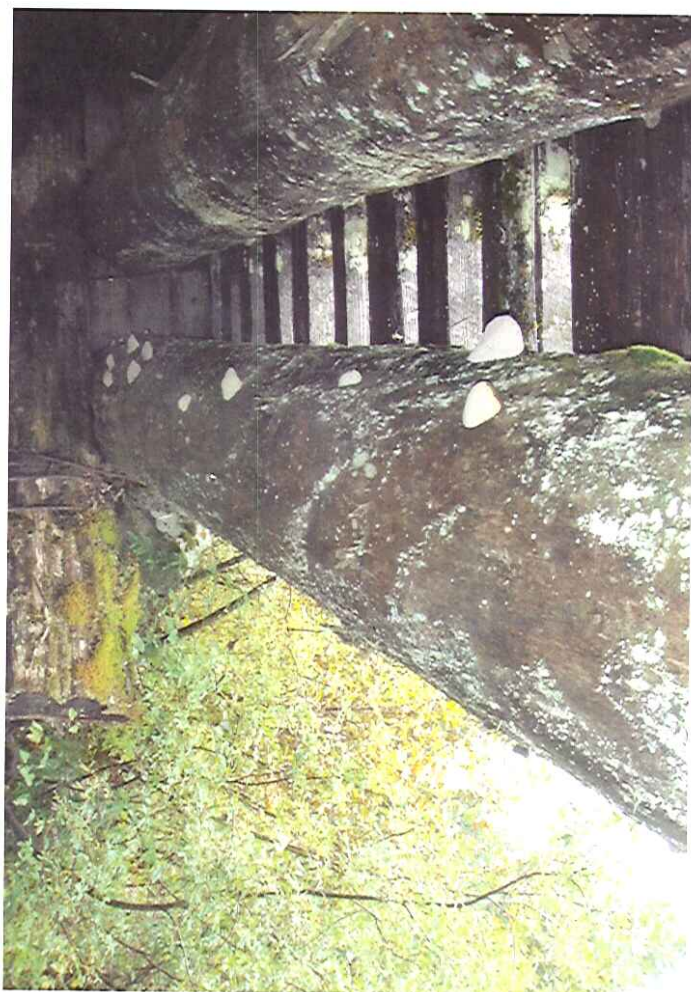
Recommend closure and replacement.

INSPECTOR Mark Spence DATE SIGNED: 01-Oct-07 NEW LOAD RATING tonnes: 0

REVIEWED AND NOTED BY: A. Dohm, P. Eng. RN DATE SIGNED: Dec 9 08







~ 350 ~ 400 ~ 350 $\approx 11/m \text{ c/c.}$

Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2327 Stave River

YEAR BUILT:

0.00

1 1

Crossing: District Span: SBFEP/FRM: Project Number:

Side Creek

Chilliwack

6.65 c/c

BCTS

8013.01

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Semi Permanent Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	4	100mm x 300mm untreated fir, planks heavily worn and crushed (CK-2327-a3 to	Remarks
	Structural Decking	5	100mm x 300mm untreated fir with multiple pockets of rot and numerous holes in	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	4	250mm x 250mm untreated fir ties, spaced 500mm c/c with 50mm surface rot.	Remarks
	Nails	4		Remarks
	Curbs and Blocks	4	500mm fir curb logs.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3	Steel bracket every 5 ties.	Remarks
	Hardware	4		Remarks
	Delineators	4	Town side upstream delineator present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Painted steel.	Remarks
	Diaphragms	3	Painted steel.	Remarks
	Bracing	3	Painted steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Painted steel.	Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	3	3 high lock block wall with concrete footings.	Remarks
	Caps or Sills	3	300mm x 300mm untreated fir with 2mm surface rot.	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	3 high lock block wall with concrete footings. Bush side downstream corner lock	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3	Steel tiebacks	Remarks
	Fill	3	Over steepened slope 0.5/1.	Remarks
	Riprap	3		Remarks
	Overall	3		Remarks
APPROACHES		3	Moderate potholes at approaches; brushed in.	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	1.80	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
						Back water from close proximity lake.

HAZARDS: High Water Debris

Repair Required? Yes Professional Inspection Required? No REPAIR DESCRIPTIONS AND COST ESTIMATE:

Replace ties and decking. Install missing delineators. Brush out and grade approaches.

AS BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 10 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes: SUGGESTED REPLACEMENT DATE

at new load rating: 0 tonnes

at original design load

Comments: NEW LOAD RATING tonnes: NAD: GPS

Based on the condition of the ties and deck the overall condition of this structure is poor.

Close bridge until bridge deck (ties and planks) is replaced

INSPECTOR Mark Spence DATE SIGNED: 18-Sep-07 REVIEWED AND NOTED BY: H. Dohm, Reg. SIGNED: Dec. 9/08







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

YEAR BUILT: 1995

Km: 0.00

Page: Of: 1 1

CK-2327

Stave River

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

6.8

BCTS

8013-01

Date of this Inspection: M: 11 Y: 2003 Date of Next Inspection: M: 11 Y: 2006 BRIDGE CLAS Permanent Bridge

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	3-4	Worn, will need replacing soon.	Remarks
	Structural Decking	2 - Good	Untreated.	Remarks
	Concrete Deck	6 - N/A (not applicable)		Remarks
	Gravel Surfacing	6 - N/A (not applicable)		Remarks
	Ties	2 - Good	Untreated.	Remarks
	Nails	3 - Fair		Remarks
	Curbs and Blocks	2 - Good	Log.	Remarks
	Hand Rails	6 - N/A (not applicable)		Remarks
	Deck to Girder Bolt	6 - N/A (not applicable)		Remarks
	Hardware	2 - Good	Cable.	Remarks
	Delineators	3 - Fair	In place but bent.	Remarks
SUPER-STRUCTURE	Girders / Slabs	2 - Good	Two steel I beams. Painted.	Remarks
	Diaphragms	6 - N/A (not applicable)		Remarks
	Bracing	2 - Good	3 braces. Painted.	Remarks
	Trussing	6 - N/A (not applicable)		Remarks
	Hardware	2 - Good		Remarks
SPAN #	1			
PIERS	Caps	6 - N/A (not applicable)		
	Piles or Posts	6 - N/A (not applicable)		
	Concrete	6 - N/A (not applicable)		
	Bracing or Sheat	6 - N/A (not applicable)		
	Cribs	6 - N/A (not applicable)		
	Hardware	6 - N/A (not applicable)		
	Riprap	6 - N/A (not applicable)		
	Overall	6 - N/A (not applicable)		
ABUTMENTS	Cribs	6 - N/A (not applicable)		Remarks
	Tie-backs	6 - N/A (not applicable)		Remarks
	Bin Walls	6 - N/A (not applicable)		Remarks
	Caps or Sills	2 - Good	Untreated squared timbers.	Remarks
	Piles or Posts	6 - N/A (not applicable)		Remarks
	Concrete	2 - Good	Lock blocks, 3 high.	Remarks
	Bulkhead Planks	2 - Good	Steel.	Remarks
	Wing Wall Planks	6 - N/A (not applicable)		Remarks
	Bracing	6 - N/A (not applicable)		Remarks
	Hardware	2 - Good	Lock blocks bolted.	Remarks
	Fill	2 - Good		Remarks
	Riprap	2 - Good		Remarks
	Overall	2 - Good		Remarks
APPROACHES		2 - Good	Fender logs only on bush end. Requires brushing. Potholes.	Remarks

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	1.80	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
--------------------------	------	-------------------------	------	---------------------------------	---	------------------------

HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Instal fender logs, brush and grade out potholes at best opportunity.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	0	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	68	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	NAD:	NAD 27 UTM	GPS	N	5475216	E	554651
-----------	-------------------------	------	------------	-----	---	---------	---	--------

PRESENT LOAD RATING OF 68 TONNES TO CONTINUE. MONITOR PLANKS AND REPLACE WHEN REQUIRED.

INSPECTOR

Johnson, Ross

DATE SIGNED: 21-Nov-03

REVIEWED AND NOTED BY: D.Robek, P.Eng.

SIGNED: 04-Feb-11

Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2331 Stave River

5.10 1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Camp Creek

Chilliwack

6.6 c/c

BCTS

8013.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	400mm gravel depth.	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	4	400mm hemlock curb logs; lashing loose on downstream log.	Remarks
	Delineators	4	All delineators present. Town and bush side upstream delineators damaged.	Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				10		Stringer Comments
	1				9										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Diameter mm	820	600	700	720	800	610	800	600	650					
Rot mm	10		10	15	10	5	20	15	15						
Species	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw	Cw						

Stringer 5 has a shell thickness of 210mm.

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		6		
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town/Woods side: 2 log high cedar crib, 700mm average diameter face lo	Remarks
	Tie-backs	3	Town/Woods side: 1 row of 3 cedar tiebacks (500mm) with 15mm sap rot.	Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3	Lashing tight.	Remarks
	Fill	3	Retaining fill adequately.	Remarks
	Riprap	3	No riprap present.	Remarks
	Overall	3		Remarks
APPROACHES		3	Minor potholes at approaches.	Remarks

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	1.40	ESTIMATED HIGH WATER LEVEL (m):	1
--------------------------	------	-------------------------	------	---------------------------------	---

HAZARD(S) DESCRIPTION:

Large and medium size woody debris building up at inlet.

HAZARDS: Debris

Repair Required? Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No

Repair damaged delineators. ✓

AS_BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 7 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

The overall condition of the structure is fair; load rate. Consider installing narrow structure signs at approaches.

Retain present load rating of L75 (68 tonnes). Monitor stringer 5.

INSPECTOR Mark Spence DATE SIGNED: 18-Sep-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: H. Doherty, P. Eng. RN DATE SIGNED: Dec. 10/08





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2400mm x 2

Structure Number: Forest Service Road:

CK-2332

Stave River

Km:

1.40

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

09

Date of Next

M:

09

Inspection:

Y:

2010

BRIDGE CLASS
CULVERT

Year Built:

Number of

Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	5	Bush side culvert inlet 2400mm gravel bedload.	Remarks
Outlet	3	Bush side culvert outlet 480mm gravel bedload (CK-2332)	Remarks
Bolts	3		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	6	Culvert floor not visible.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1100mm fill over culvert.	Remarks
Riprap	3		Remarks
Road Approaches	3	Minor potholes at approaches. Located on horizontal and	Remarks
Overall	3	2400mm x 18.0m steel pipe. X 2	Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	0.00	ESTIMATED HIGH WATER LEVEL (m):	2.4	HAZARD(S) DESCRIPTION:
						Gravel accumulations in culvert.

HAZARDS

High Water	Debris			
------------	--------	--	--	--

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		Re-establish flow by removing bed load from culverts.			
Professional Inspection Required?	No				
As-Built Checked?	No	NUMBER OF PICTURES TAKEN:	6.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes: 68
			No		

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of both structures is poor.

*Remove bed load from culvert ASAP.
Retain present load rating of L75 (68 tonnes)*

INSPECTOR	Mark Spence	DATE SIGNED:	18-Sep-07	NAD:
REVIEWED AND NOTED BY:	G. Dohm, P. Eng.	RN DATE SIGNED:	Dec 9/08	
NEW LOAD RATING tonnes:	GPS			

Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2400mm x 2

Structure Number: Forest Service Road:

CK-2332

Stave River

Km:

1.40

Page: Of:

1

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of

Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	5	Culvert inlets have 2400mm gravel bedload.	Remarks
Outlet	3	Culvert outlets have 1200mm gravel bedload (CK-2332-a)	Remarks
Bolts	6		Remarks
Connections	6	No access.	Remarks
Roof	3		Remarks
Floor	6	No access.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1100mm fill over culvert.	Remarks
Riprap	4	Upstream riprap buried.	Remarks
Road Approaches	3	Minor potholes at approaches. Located on a horizontal an	Remarks
Overall	5	Two 2400mm x 18.0m steel pipe.	Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	0.00	ESTIMATED HIGH WATER LEVEL (m):	2.4	HAZARD(S) DESCRIPTION:
						Gravel accumulations in culvert.

HAZARDS

High Water	Debris		
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
		Re-establish flow by removing bead load from culverts.	
Professional Inspection Required?	No		
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	6.00
		Narrow Structure Signs?	PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of both structures is poor.

INSPECTOR

Mark Spence

DATE SIGNED: 18-Sep-07

NAD:

REVIEWED AND NOTED BY:

RN DATE SIGNED:

NEW LOAD RATING tonnes:

GPS





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2200mm x 2

Structure Number: Forest Service Road:

CK-2333

Stave River

Km:

3.00

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of

Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	3	Town side culvert / Bush side culvert: small woody debris	Remarks
Outlet	3	Town side culvert: scour damage at culvert invert (entire)	Remarks
Bolts	3		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	600mm gravel cover.	Remarks
Riprap	3	Oversteepened at 1/1 slope, well placed.	Remarks
Road Approaches	2	Potholes at approaches.	Remarks
Overall	3		Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	2.00	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
						Bedload at inlet.

HAZARDS

	Debris			
--	--------	--	--	--

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		Clean out bedload, grade approaches.			
Professional Inspection Required?	No				
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	6.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		68

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of L75 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED: 18-Sep-07

NAD:

REVIEWED AND NOTED BY:

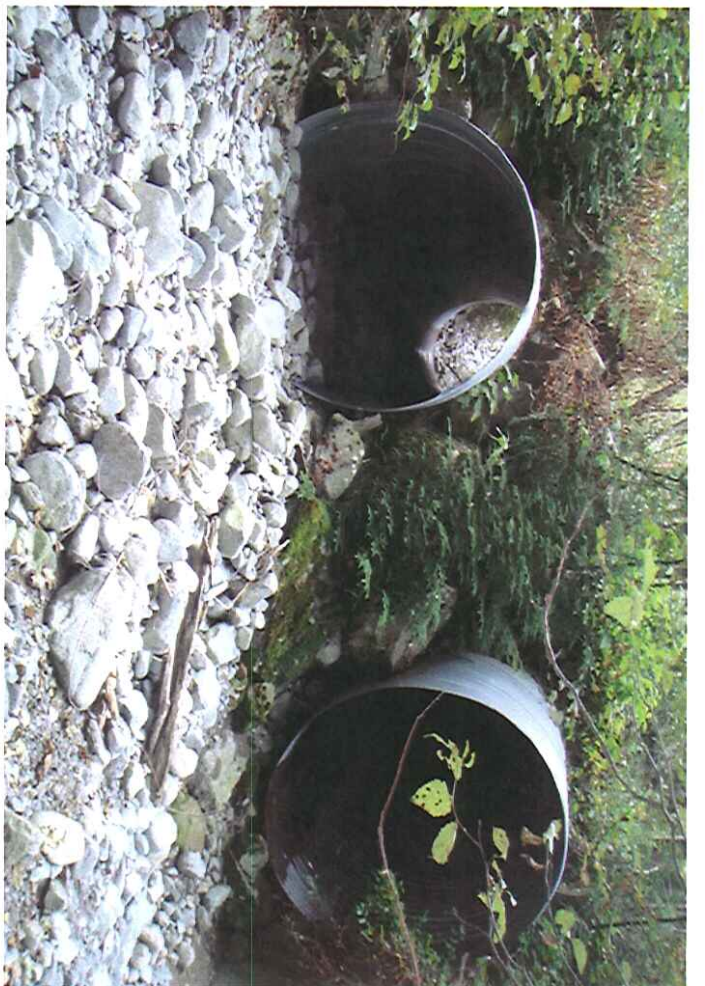
A. Dohm, P. Eng.

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:

GPS





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1 x 5100mm / 2

Structure Number: Forest Service Road:

CK-2334

Stave River

Km:

4.40

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection: M: 09
Y: 2007Date of Next
Inspection: M: 09
Y: 2010**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION	Remarks
Inlet	3	
Outlet	3	Scouring at town and bush side of bush side culvert outlet.
Bolts	3	
Connections	3	
Roof	3	
Floor	3	Minor staining at average water level.
Side Walls	3	
Baffles	6	
Trash Rack	6	
Wing / Head Walls	6	
Coating	3	Galvanized.
Cover / Fill	3	500mm fill over culvert.
Riprap	3	Undermining at outlet.
Road Approaches	3	Minor potholes at approaches.
Overall	3	2200 mm steel culvert.

PRESENT
WATER
LEVEL

0.00

PRESENT
WATER
CLEARANCE (m):

3.30

ESTIMATED
HIGH WATER
LEVEL (m):

0.5

HAZARD(S) DESCRIPTION:

Scour damage and outlet.

HAZARDS

Scour

Repair
Required

Yes/no

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional
Inspection
Required?

No

As-Built
Checked?

No

NUMBER OF
PICTURES TAKEN:

11.00

Narrow Structure Signs?

No

PRESENT POSTED
RATING tonnes:

68

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of L-75 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED:

18-Sep-07

NAD:

REVIEWED AND NOTED BY:

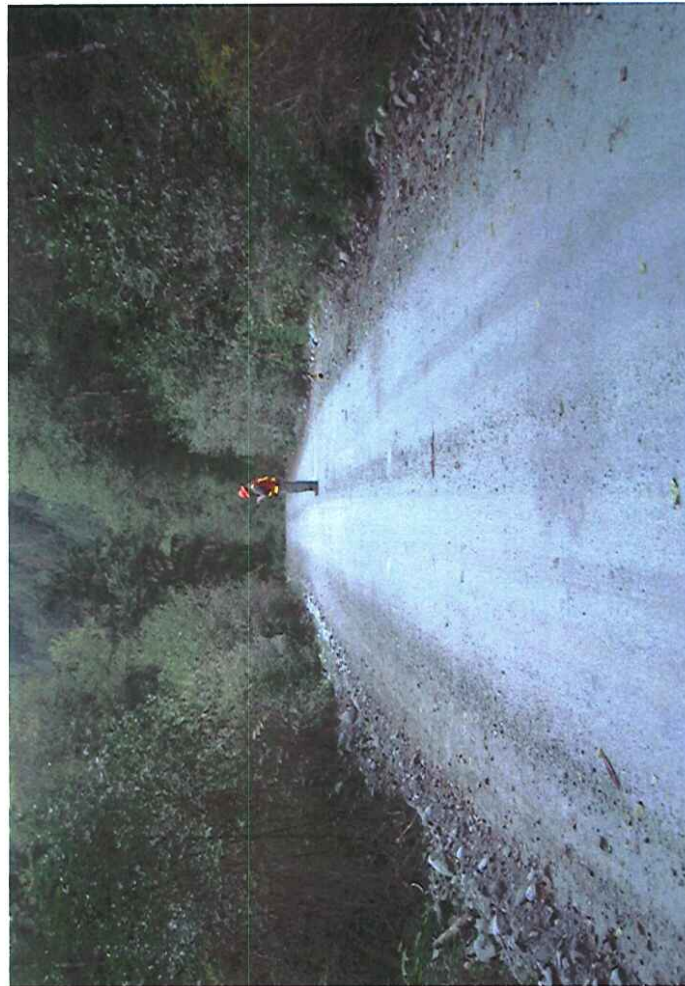
M. Dohm, P.Eng.

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:

GFS







Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

5000mm @ 2

Structure Number: Forest Service Road:

CK-2334

Stave River

Km: Page: Of:

4.40 1 1

Crossing:

District

Project Number:

Side Creeks

Chilliwack

8013-01

Date of this M: 09 Date of Next M: 09
Inspection: Y: 2002 Inspection: Y: 2005**BRIDGE CLASS
CULVERT**Year Built: Number of
Culverts: 2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	2 - Good		Remarks
Outlet	2 - Good	.2m fall from town culvert.	Remarks
Bolts	2 - Good	Town culvert only.	Remarks
Connections	2 - Good		Remarks
Roof	2 - Good		Remarks
Floor	2 - Good		Remarks
Side Walls	2 - Good		Remarks
Baffles	6 - N/A (not applicable)		Remarks
Trash Rack	6 - N/A (not applicable)		Remarks
Wing / Head Walls	6 - N/A (not applicable)		Remarks
Coating	3 - Fair	Minor surface rust on floor.	Remarks
Cover / Fill	2 - Good	.3 cover I/L side of town culvert.	Remarks
Riprap	2 - Good		Remarks
Road Approaches	2 - Good		Remarks
Overall	2 - Good		Remarks

PRESENT WATER LEVEL	0.10	PRESENT WATER CLEARANCE (m):	2.10	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
						Clearance is for bush culvert.

HAZARDS

				None
--	--	--	--	------

Repair Required No REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No

As-Builts Checked? No

NUMBER OF PICTURES TAKEN:

0.00

Narrow Structure Signs?

PRESENT POSTED

L75

No

RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

2WD road, barge access only. Town culvert = 5050 X 3330mm X 18m helical multiplate corrugated metal pipe. Bush culvert = 2200mm X 18 round corrugated metal pipe. PRESENT LOAD RATING TO CONTINUE. CK-2334 (8013.01 @ 4.4) We don't have design information on file for this culvert. If it is available in your office, the required cover should be checked, but should be at least 600mm. Ross had some maintenance recommendations: see below. The outlet erosion should be repaired as the road shoulder could slough and present a safety hazard (Mike Feduk 11/04/05)

INSPECTOR

Johnson, Ross

DATE SIGNED: 02-Sep-20

NAD:

REVIEWED AND NOTED BY: Dan Robek, P.Eng.

RN DATE SIGNED: 03-Jun-10

NAD 27 UTM

NEW LOAD RATING tonnes:

GPS

N

5478232

E

556779

Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

900mm x 2500mm

Structure Number: Forest Service Road:

CK-2335

Stave River

Km:

Page:

Of:

7.20

1

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	3		Remarks
Outlet	3		Remarks
Bolts	2		Remarks
Connections	2		Remarks
Roof	3		Remarks
Floor	3	Staining at normal water level (CK-2335-a1, a2). /	Remarks
Side Walls	6		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized. /	Remarks
Cover / Fill	3	400mm cover. /	Remarks
Riprap	3	Oversteepened at 1/1. /	Remarks
Road Approaches	2		Remarks
Overall	3	1800mm x 2500mm x 12.5m steel pipe arch. /	Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.80	ESTIMATED HIGH WATER LEVEL (m):	0.6	HAZARD(S) DESCRIPTION:
---------------------------	------	------------------------------------	------	---------------------------------------	-----	------------------------

HAZARDS

			None
--	--	--	------

Repair Required	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:	
Professional Inspection Required?	No		
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	6.00
		Narrow Structure Signs?	No
		PRESENT POSTED RATING tonnes:	68

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of L75 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED:

18-Sep-07

NAD:

REVIEWED AND NOTED BY:

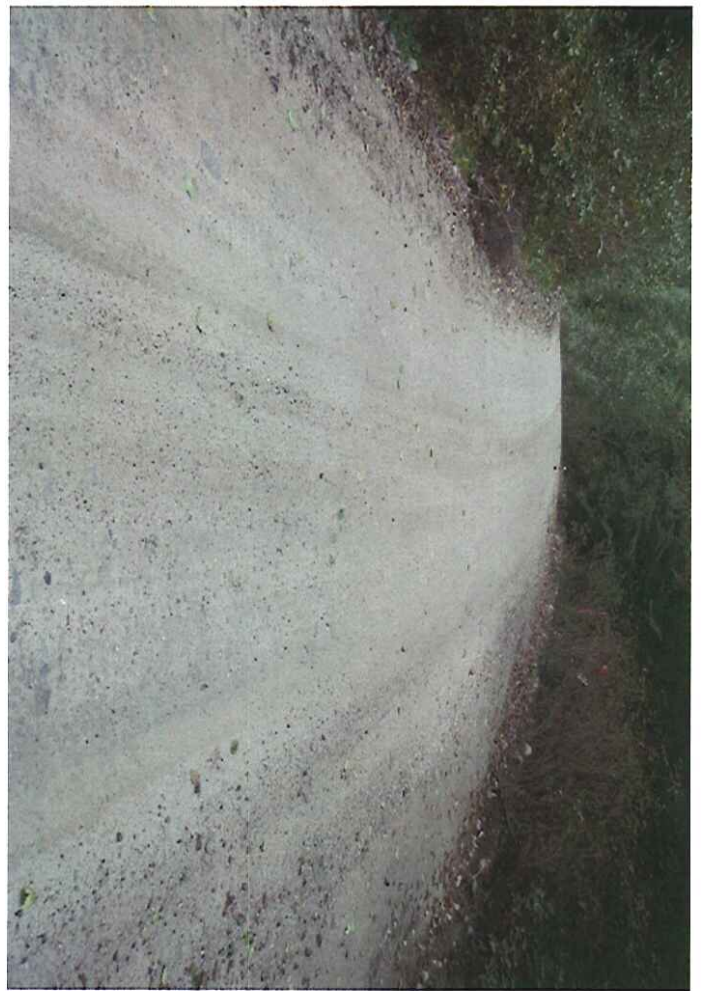
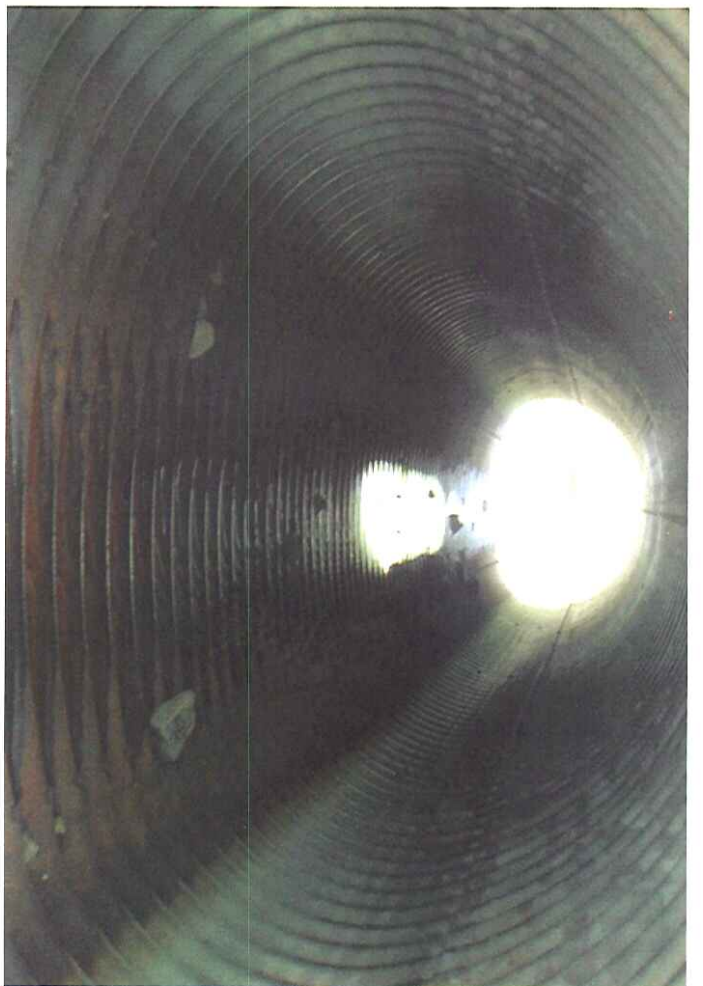
G. Dohm, PEng

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:

GPS





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1400mm

Structure Number: Forest Service Road:

CK-2336

Stave River

Km:

7.20

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION	Remarks
Inlet	3	
Outlet	3	500mm bedload.
Bolts	6	
Connections	2	
Roof	6	
Floor	3	Bedload extends the entire length of the culvert (CK-2336)
Side Walls	6	
Baffles	6	
Trash Rack	6	
Wing / Head Walls	6	
Coating	3	Galvanized.
Cover / Fill	3	500mm gravel cover.
Riprap	2	
Road Approaches	2	
Overall	3	1400mm x 14.2 m long steel culvert.

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.40	ESTIMATED HIGH WATER LEVEL (m):	0.6	HAZARD(S) DESCRIPTION:
HAZARDS						
					None	

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
	☒	Remove bedload and crete a sump at the inlet.
Professional Inspection Required?	No	
As-Built Checked?	No	NUMBER OF PICTURES TAKEN: 5.00
		Narrow Structure Signs? PRESENT POSTED RATING tonnes: 68

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of 475 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED:

18-Sep-07

NAD:

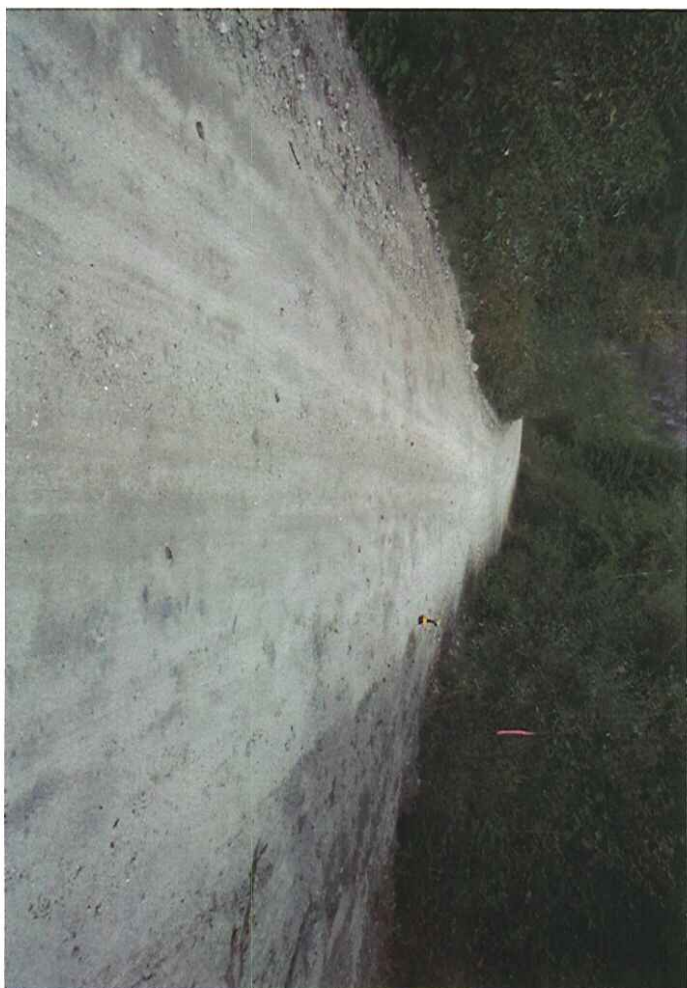
REVIEWED AND NOTED BY:

G. Dohm, PE
GPS

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2400mm

Structure Number: Forest Service Road:

CK-2336

Stave River

Km:

7.30

Page: Of:

1

1

Crossing:

side creek

District

Chilliwack

Project Number:

8013-01

Date of this
Inspection: M: 08
Y: 2005Date of Next
Inspection: M: 08
Y: 2007**BRIDGE CLASS
CULVERT**Year Built:
1996Number of
Culverts: 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION	Remarks
Inlet	2 - Good	Remarks
Outlet	2 - Good	Remarks
Bolts	2 - Good	Remarks
Connections	2 - Good	Remarks
Roof	2 - Good	Remarks
Floor	3 - Fair	some rust
Side Walls	2 - Good	Remarks
Baffles	6 - N/A (not applicable)	Remarks
Trash Rack	6 - N/A (not applicable)	Remarks
Wing / Head Walls	6 - N/A (not applicable)	Remarks
Coating	3 - Fair	some rust on floor
Cover / Fill	2 - Good	Remarks
Riprap	3 - Fair	Remarks
Road Approaches	2 - Good	Remarks
Overall	2 - Good	Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.80	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
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HAZARDS

None

Repair Required	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		no repairs at this time			
Professional Inspection Required?	No				
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	0.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		L75

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

2440mm X 1825mm pipe arch (RG 05/08/19)

INSPECTOR

Getzlaf, Ray P. Eng.

DATE SIGNED: 19-Aug-05

NAD:

REVIEWED AND NOTED BY: Getzlaf, Ray P. Eng.

RN DATE SIGNED: 26-Jan-06

NEW LOAD RATING tonnes: L75

GPS

0556321

5480702

Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2000mm

Structure Number: Forest Service Road:

CK-2339

Stave River

Km:

13.60

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection:

M:

10

Y:

2007

Date of Next
Inspection:

M:

10

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	3	Minor scour damage has created a void (800mm deep x 2	Remarks
Outlet	3	Minor scour damage has created a void (1000mm deep x	Remarks
Bolts	3		Remarks
Connections	3	50mm gap, 40mm elevation difference between culvert se	Remarks
Roof	3		Remarks
Floor	3	Minor staining at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	500mm gravel cover.	Remarks
Riprap	3		Remarks
Road Approaches	3		Remarks
Overall	3		Remarks

PRESENT WATER LEVEL	0.05	PRESENT WATER CLEARANCE (m):	1.95	ESTIMATED HIGH WATER LEVEL (m):	0.4	HAZARD(S) DESCRIPTION:
						Scour damage at inlet and outlet.

HAZARDS

		Scour		
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Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
Professional Inspection Required?	No				
As-Built Checked?	No	NUMBER OF PICTURES TAKEN:	7.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		68

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of 475 (68 tonnes)

INSPECTOR

K. MacDonald

DATE SIGNED:

24-Oct-07

NAD:

REVIEWED AND NOTED BY:

G. Dehm, PE

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:

GPS





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

2000

Structure Number: Forest Service Road:

CK-2339

Stave River

Km:

13.60

Page: Of:

1

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013-01

Date of this
Inspection:

M:

11

Y:

2003

Date of Next
Inspection:

M:

11

Y:

2006

BRIDGE CLASS
CULVERT

Year Built:

1996

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	2 - Good		Remarks
Outlet	2 - Good		Remarks
Bolts	6 - N/A (not applicable)		Remarks
Connections	2 - Good		Remarks
Roof	2 - Good		Remarks
Floor	2 - Good		Remarks
Side Walls	2 - Good		Remarks
Baffles	6 - N/A (not applicable)		Remarks
Trash Rack	6 - N/A (not applicable)		Remarks
Wing / Head Walls	6 - N/A (not applicable)		Remarks
Coating	2 - Good	Minor corrosion on floor.	Remarks
Cover / Fill	2 - Good	.8m cover on U/S side.	Remarks
Riprap	2 - Good		Remarks
Road Approaches	2 - Good		Remarks
Overall	2 - Good		Remarks

PRESENT WATER LEVEL	0.10	PRESENT WATER CLEARANCE (m):	1.90	ESTIMATED HIGH WATER LEVEL (m):	0.8	HAZARD(S) DESCRIPTION:
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HAZARDS

	Debris			
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Repair
Required

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional
Inspection
Required?

No

As-Builts
Checked?

No

NUMBER OF
PICTURES TAKEN:

0.00

Narrow Structure Signs?

No

PRESENT POSTED
RATING tonnes:

68

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

2000mm round corrugated metal pipe. PRESENT LOAD RATING TO CONTINUE.

INSPECTOR

Johnson, Ross

DATE SIGNED:

21-Nov-03

NAD:

REVIEWED AND NOTED BY:

D.Robek, P.Eng.

RN DATE SIGNED:

04-Feb-11

NAD 27 UTM

NEW LOAD RATING tonnes:

GPS

N

5483793

E

552872

Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

CK-2341

Stave River

Km:

16.90

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Span:

5.6 c/c

SBFEP/FRM:

BCTS

Project Number:

8013.01

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS
DECK	Running Planks	6	200mm gravel surface.
	Ties	6	
	Nails	6	
	Curbs and Blocks	6	
	Delineators	6	

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				15		Stringer Comments
	1				10										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Limited access due to high water.
Diameter mm	600									560					
Rot mm	10									20					
Species	Cw									Cw					

		CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS		6	
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	3	Town side: 2 log high cedar crib. Bush side: 2 log high cedar crib. Townsi
	Tie-backs	6	No access due to high water.
	Caps or Sills	6	
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	6	
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	6	No access due to high water.
	Fill	6	No access due to high water.
	Riprap	6	No access due to high water.
	Overall	3	
APPROACHES		3	

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	0.60	ESTIMATED HIGH WATER LEVEL (m):	0.95
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HAZARD(S) DESCRIPTION:

High water. Debris jam at mid span (CK-2341-a3).

HAZARDS: High Water Debris

Repair Required? Yes

Professional Inspection Required? No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Clean out debris from structure.

AS_BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 7 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments:

NAD:

GPS:

The overall condition of this structure appears to be fair. It appears that this structure does not meet the hydrological requirements of the drainage area; we recommend this structure be replaced within the next 1 to 2 years.

INSPECTOR K. MacDonald

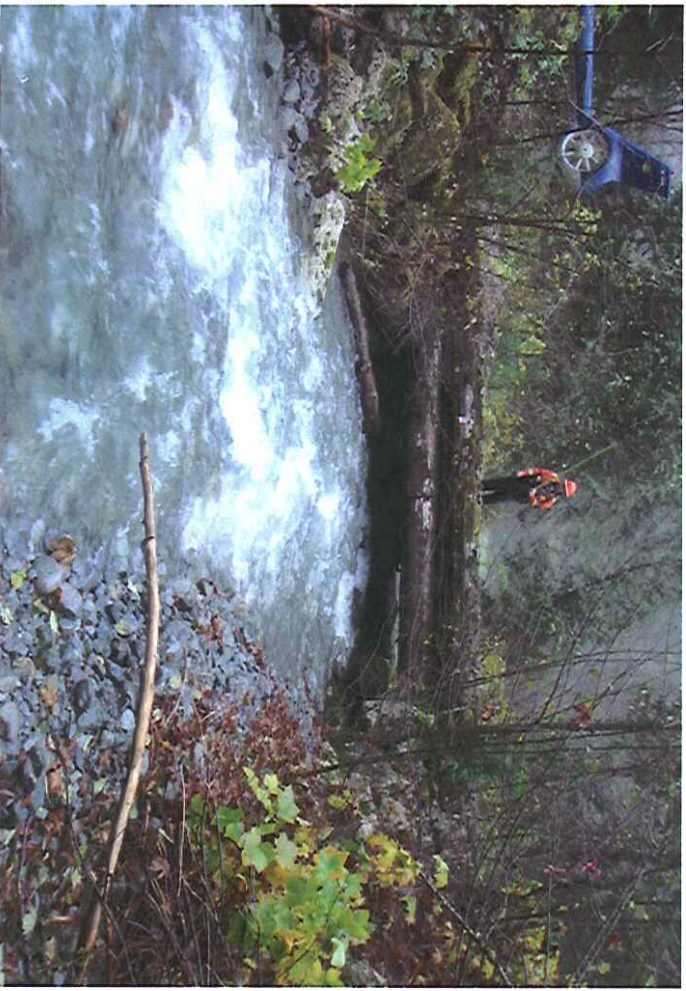
DATE SIGNED: 24-Oct-07

NEW LOAD RATING tonnes: 54

REVIEWED AND NOTED BY: J. Dohm, P.Eng.

RN DATE SIGNED: Dec 10/08

Recommend cleaning debris ASAP to prevent washout...and plan for replacement to increase hydraulic capacity. Return previous load rating of 140 (54 tonnes)





Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

900mm x 2500mm

Structure Number: Forest Service Road:

→ CK-2343 Stave River

Km: 28.10

Page: 1

Of: 1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this
Inspection: M: 10
Y: 2007Date of Next
Inspection: M: 10
Y: 2010**BRIDGE CLASS
CULVERT**

Year Built:

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3		Remarks
Outlet	3		Remarks
Bolts	6	No access.	Remarks
Connections	6	No access.	Remarks
Roof	6	No access.	Remarks
Floor	6	No access; minor staining at normal water level.	Remarks
Side Walls	6	No access.	Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	1100 mm gravel cover.	Remarks
Riprap	3	1:1 slope, riprap well placed.	Remarks
Road Approaches	3	Moderately potholed and brushed in.	Remarks
Overall	3	Back water from the Stave River.	Remarks

PRESENT WATER LEVEL	0.80	PRESENT WATER CLEARANCE (m):	1.00	ESTIMATED HIGH WATER LEVEL (m):	1.8	HAZARD(S) DESCRIPTION:
						Back water from Stave River.

HAZARDS

High Water

Repair
Required

Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Grade and brush out approaches.

Professional
Inspection
Required?

No

As-Builts
Checked?

No

NUMBER OF
PICTURES TAKEN:

4.00

Narrow Structure Signs?

No

PRESENT POSTED
RATING tonnes:

L75

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of L75 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED:

25-Oct-07

NAD:

REVIEWED AND NOTED BY:

Greg Doherty

RN DATE SIGNED:

Dec 9/08

NEW LOAD RATING tonnes:

68

GPS



Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km:

Page: Of:

CK-2344

Stave River

33.10

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

5.1 c/c

BCTS

8013.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS
DECK	Running Planks	6	300mm gravel depth, exposed puncheon (CK-2344-a3).
	Ties	6	
	Nails	6	
	Curbs and Blocks	6	
	Delineators	6	

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				10		Stringer Comments
	1				11 est.										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Diameter mm	630										800				Limited access to interior stringers, only outside stringers were assessed.
Rot mm	230										5				
Species	Cw										Cy				

		CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS		6	
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	6	
	Tie-backs	6	
	Caps or Sills	3	Town side/Bush side: 900mm cedar sill logs, 5mm sap rot.
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	6	
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	6	No access.
	Fill	6	
	Riprap	6	No access.
	Overall	3	
APPROACHES		3	Brushed in.

PRESENT WATER LEVEL (m):	0.30	PRESENT WATER CLEARANCE	0.20	ESTIMATED HIGH WATER LEVEL (m):	0.4
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HAZARD(S) DESCRIPTION:

Present water is within 200mm of bottom of stringers. Debris jam at inlet and beaver dam at outlet (CK-2344-a2, d).

HAZARDS: High Water Debris

Repair Required?	Yes
Professional Inspection Required?	No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Brush out approaches; remove debris jam/beaver dam.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	6	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	
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SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments:

NAD:

GPS

Based on the condition of the upstream stinger the overall condition of this structure is poor.

Recommend downrating to 2 tonnet PV. Missing information to properly rate bridge.
Recommend planning to replace bridge.

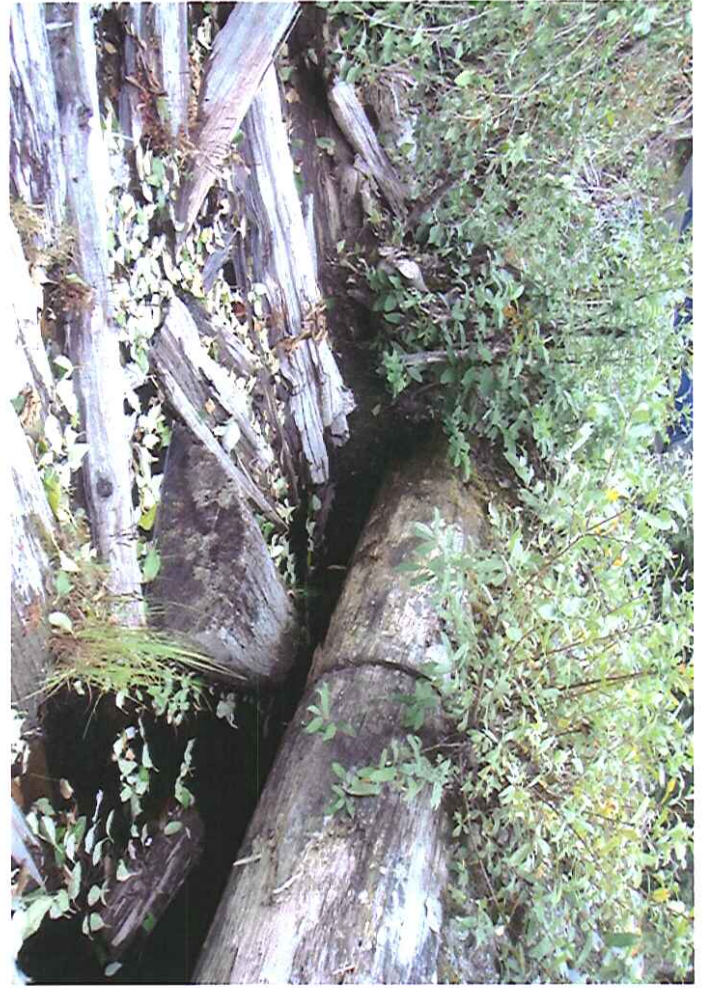
INSPECTOR K. MacDonald DATE SIGNED: 17-Sep-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY:

RN DATE SIGNED:

Dec. 9/08





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2345

Stave - Winslow

YEAR BUILT:

2.40

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Bradley Creek

Chilliwack

20.7 c/c

BCTS

8013.02

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3 ✓	Minor spalling at approaches (CK-2345-a3). Gravel accumulating on deck. ✓	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3 ✓	250mm x 250mm untreated fir with 5mm surface rot. ✓	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3 ✓	Composite concrete deck. ✓	Remarks
	Hardware	3 ✓		Remarks
	Delineators	3 ✓	All delineators present. ✓	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel, minor flaking (CK-2345-a8). ✓	Remarks
	Diaphragms	3	Weathering steel. ✓	Remarks
	Bracing	3	Weathering steel. ✓	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel. ✓	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bush side upstream and downstream bearing pads buldging (CK-2345-a5 to a7).	Remarks
	Piles or Posts	3		Remarks
	Concrete	3	Precast concrete ballast wall. Minor spalling at ballast wall and deck joint.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3		Remarks
	Hardware	3		Remarks
	Fill	2		Remarks
	Riprap	2		Remarks
	Overall	3		Remarks
APPROACHES		3	Brushed in. No post barriers not functioning (CK-2345-a4).	Remarks

PRESENT WATER LEVEL (m):	0.40 ✓	PRESENT WATER CLEARANCE	3.70 ✓	ESTIMATED HIGH WATER LEVEL (m):	2 ✓	HAZARD(S) DESCRIPTION:
--------------------------	--------	-------------------------	--------	---------------------------------	-----	------------------------

HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Monitor spalling. Remove gravel from deck. Brush out approaches. Reinstall No post barriers.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	16	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	68	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: NAD: GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

Retain present load rating of L75 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED: 18-Sep-07

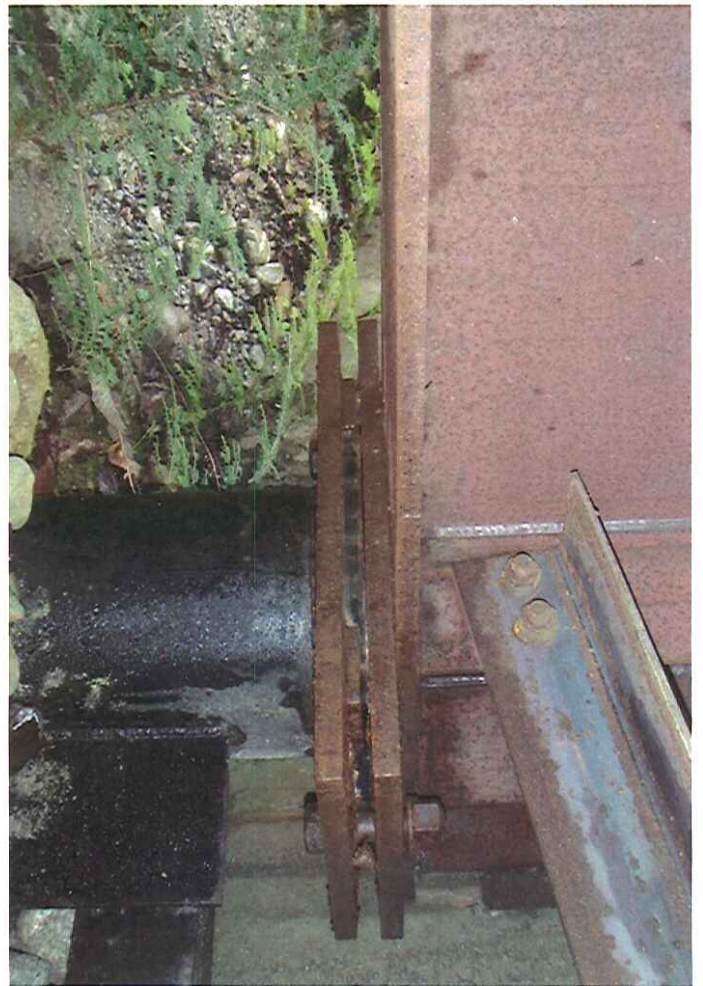
REVIEWED AND NOTED BY:

A. Dohy Peng

SIGNED:

Dec 1/08







Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1600mm

Structure Number: Forest Service Road:

CK-2349

Stave River

Km:

5.20

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8013.01

Date of this Inspection:

M:

09

Y:

2007

Date of Next Inspection:

M:

09

Y:

2010

BRIDGE CLASS
CULVERT

Year Built:

Number of

Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		Remarks
Inlet	3	Minor scouring at sides of inlet (CK-2349-u).	Remarks
Outlet	3	Minor scouring at outlet (CK-2349-a4).	Remarks
Bolts	6		Remarks
Connections	3		Remarks
Roof	3		Remarks
Floor	3	Staining at normal water level (CK-2349-a3).	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	500mm gravel cover.	Remarks
Riprap	3		Remarks
Road Approaches	3	Minor potholes at approaches.	Remarks
Overall	3		Remarks

PRESENT WATER LEVEL	0.10	PRESENT WATER CLEARANCE (m):	1.40	ESTIMATED HIGH WATER LEVEL (m):	0.4	HAZARD(S) DESCRIPTION:
---------------------	------	------------------------------	------	---------------------------------	-----	------------------------

HAZARDS

None

Repair Required No REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No

As-Builts Checked? No

NUMBER OF PICTURES TAKEN:

8.00

Narrow Structure Signs?

No

PRESENT POSTED

RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

Retain present load rating of L75 (68 tonnes)

INSPECTOR

Mark Spence

DATE SIGNED:

18-Sep-07

NAD:

REVIEWED AND NOTED BY:

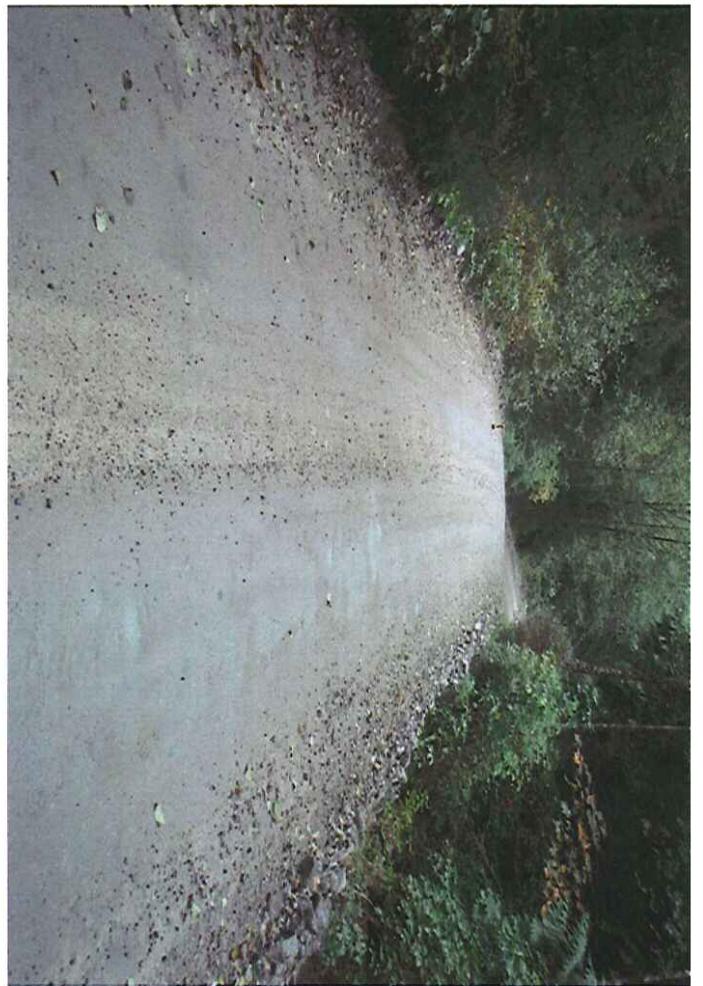
L. Dohm, P.Eng.

RN DATE SIGNED:

Dec 9/08

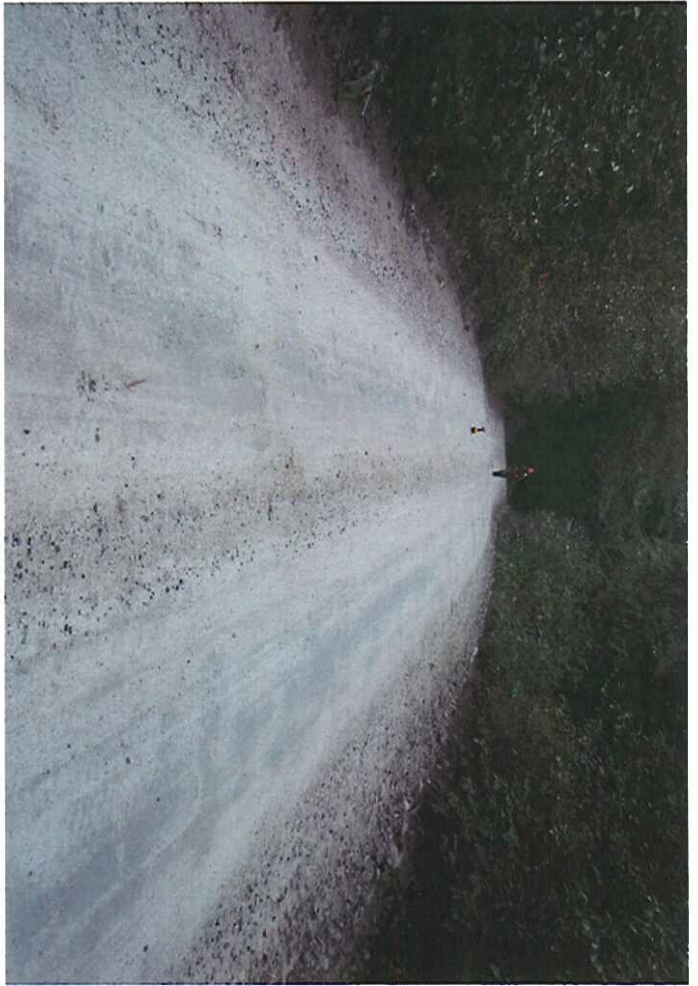
NEW LOAD RATING tonnes:

GPS





INSPECTOR	Mark Spence	DATE SIGNED:	18-Sep-07	NAD:
REVIEWED AND NOTED BY:	<i>G. Dohm, P. Eng.</i>	RN DATE SIGNED:	<i>Dec 9/08</i>	
NEW LOAD RATING tonnes:		GPS		





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2353

Stave - Winslow Creek

YEAR BUILT:

1.90

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

8.0/c/c

BCTS

8013.02

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Three concrete slab girders, gravel accumulating between gaps (25mm) of slabs	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	4	250mm x 250mm untreated fir curbs; curbs loose with 10mm sap rot and conks	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3		Remarks
	Delineators	4	Missing 2 delineators; 1 delineator is damaged.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Concrete slab girders. ✓	Remarks
	Diaphragms	6		Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	3		Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	2	200mm x 250mm treated fir sill. ✓	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	3 high lock block wall, geodrid noted. ✓	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	3		Remarks
	Overall	3		Remarks
APPROACHES		3	Moderate potholes at approaches; brushed in; bush side downstream no-post b	Remarks

PRESENT WATER LEVEL (m): 0.00

PRESENT WATER CLEARANCE 1.90 ✓

ESTIMATED HIGH WATER LEVEL (m): 0.5 ✓

HAZARD(S) DESCRIPTION:

HAZARDS:

None

Repair Required?

Yes

Professional Inspection Required?

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Install missing delineators, replace damaged delineator; tighten curbs; reinstall bush side downstream no-post barrier; grade and brush out approaches. ✓

AS_BUILT CHECKED?

No

NUMBER OF PICTURES TAKEN:

10

NARROW STRUCTURE SIGNS?

No

PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load

Comments:

NEW LOAD RATING tonnes: 68

NAD:

GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

Retain present load rating of 68 (68 tonnes)
Recommend replacing curbs in near future

INSPECTOR

Mark Spence

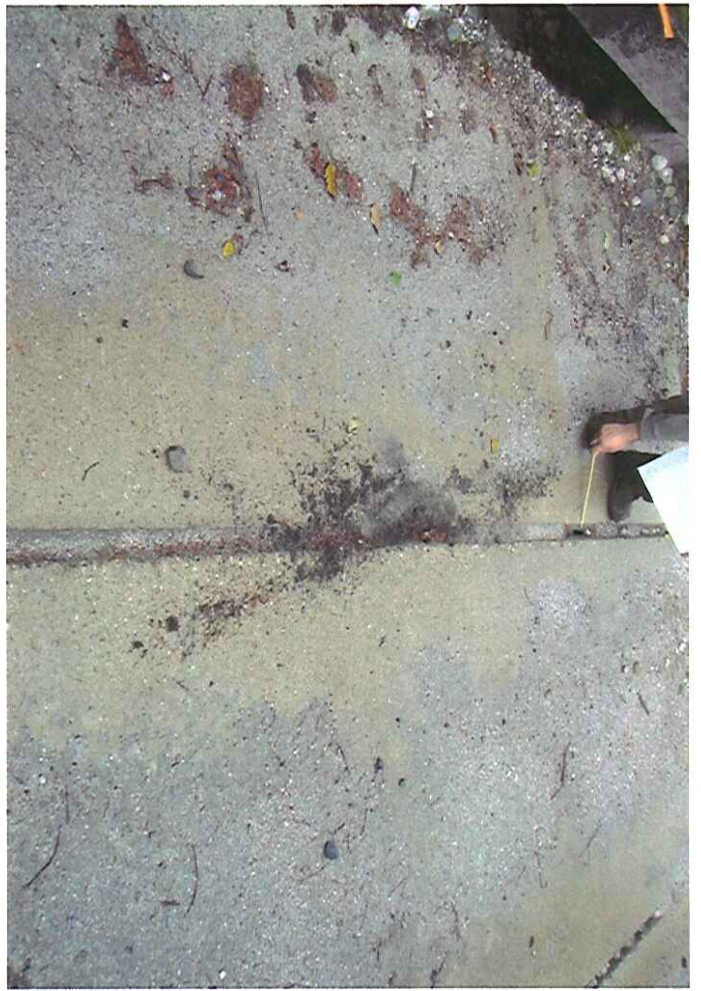
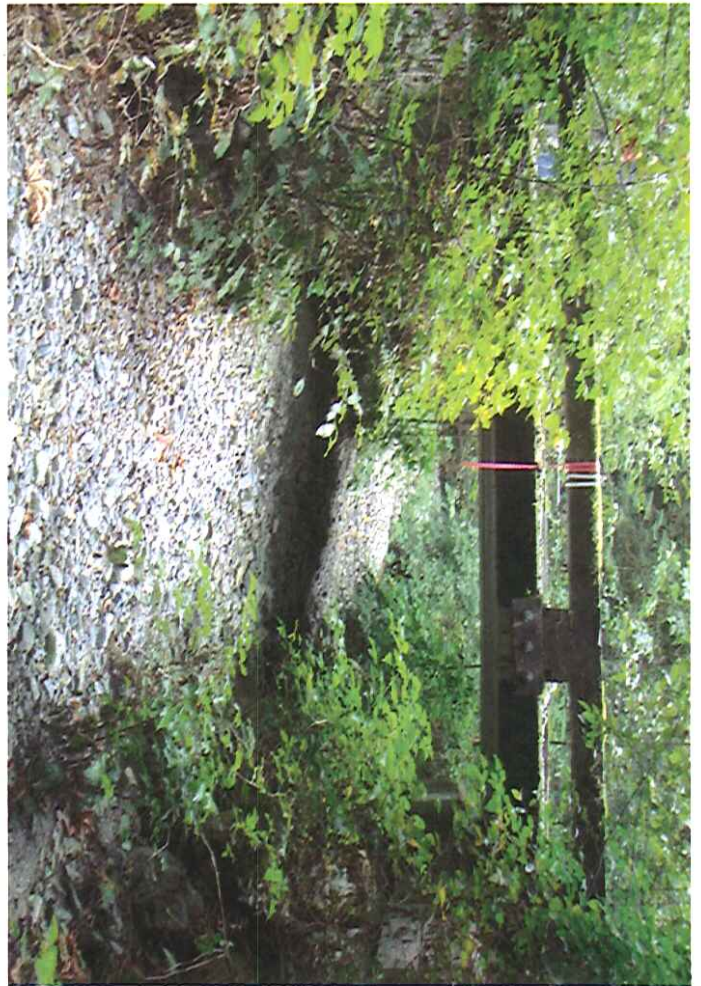
DATE SIGNED: 18-Sep-07

REVIEWED AND NOTED BY:

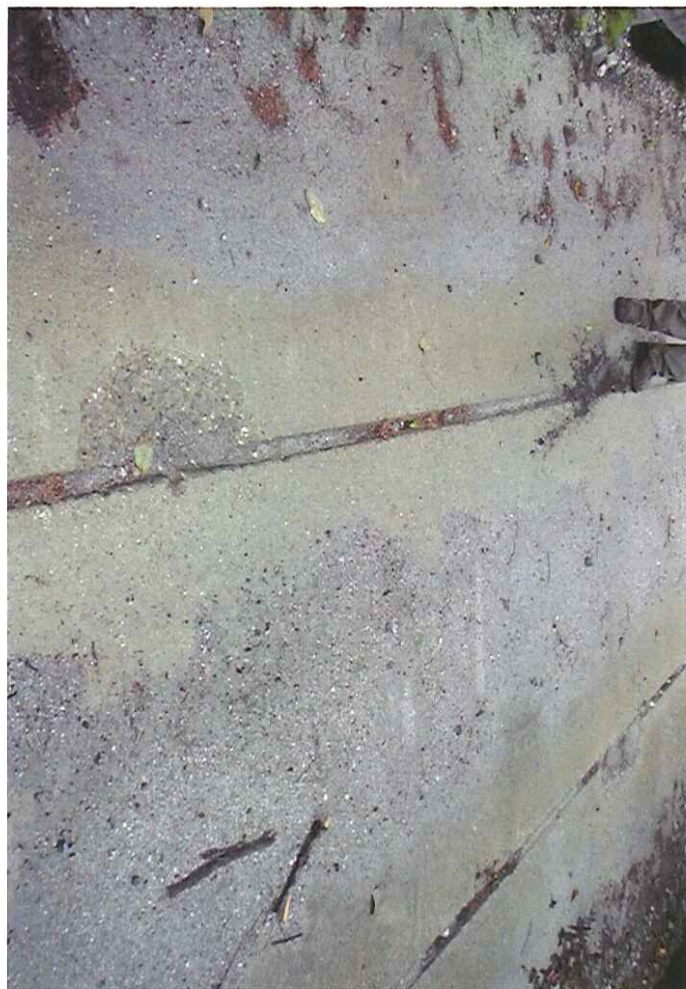
H. Dohm, Perry

SIGNED:

Dec 9/08







Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1800mm x 2

Structure Number: Forest Service Road:

CK-2358

Lost Creek

Km:

3.10

Page:

1

Of:

2

Crossing:

Side creek

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of

Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	3	500mm thick bed load at town side inlet extends entire le	Remarks
Outlet	4	Town side downstream embankment collapsed (CK-2358)	Remarks
Bolts	6		Remarks
Connections	6		Remarks
Roof	3		Remarks
Floor	3	Minor staining noted at normal water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	900mm gravel cover.	Remarks
Riprap	4	Downstream riprap collapsed (CK-2358-a7).	Remarks
Road Approaches	3	Town side approach narrowed due to downstream emban	Remarks
Overall	4		Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.80	ESTIMATED HIGH WATER LEVEL (m):	0.9	HAZARD(S) DESCRIPTION:
						Based on the bed load at the culvert inlets and the collapsed downstream embankment, debris and scour hazards exist for this structure.

HAZARDS

	Debris	Scour		
--	--------	-------	--	--

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		Remove inlet bed load and create a sump immediately upstream of culvert inlets.			
Professional Inspection Required?	No				
As-Builts Checked?	No	NUMBER OF PICTURES TAKEN:	10.00	Narrow Structure Signs?	PRESENT POSTED RATING tonnes:
			No		

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

Comments:

Based on the bed load at the culvert inlets the overall condition of the structure is poor.

Load up to 64 tonnes load rating to continue.

INSPECTOR

s

DATE SIGNED: 19-Sep-07

NAD:

REVIEWED AND NOTED BY:

J. Kozek, P. Eng.

RN DATE SIGNED:

Nov. 26-2008

NEW LOAD RATING tonnes:

GPS

Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

1800mm x 2

Structure Number: Forest Service Road:

CK-2358

Lost Creek

Km:

3.10

Page:

1

Of:

2

Crossing:

Side creek

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

Number of

Culverts:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION		
Inlet	5	900mm bedload at bush side culvert (CK-2358-a3 and a5)	Remarks
Outlet	3	Erosion of 200mm x 900mm cavity under culvert outlet.	Remarks
Bolts	6		Remarks
Connections	6		Remarks
Roof	3		Remarks
Floor	3	Minor staining noted at average water level.	Remarks
Side Walls	3		Remarks
Baffles	6		Remarks
Trash Rack	6		Remarks
Wing / Head Walls	6		Remarks
Coating	3	Galvanized.	Remarks
Cover / Fill	3	800mm fill.	Remarks
Riprap	3	No rip rap at sides of culvert at outlet.	Remarks
Road Approaches	3		Remarks
Overall	5	Bush side culvert.	Remarks

PRESENT WATER LEVEL	0.00	PRESENT WATER CLEARANCE (m):	1.80	ESTIMATED HIGH WATER LEVEL (m):	0.9	HAZARD(S) DESCRIPTION:
						Based on the bed load at the culvert inlets and the collapsed downstream emankmentm, debris and scour hazards exist for this structure.

HAZARDS

	Debris	Scour		
--	--------	-------	--	--

Repair Required	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:			
		Remove inlet bed load and create a sump immediately upstream of culvert inlets.			
Professional Inspection Required?	No				
As-Built Checked?	No	NUMBER OF PICTURES TAKEN:	10.00	Narrow Structure Signs?	PRESENT POSTED
			No		RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating: at original design load:

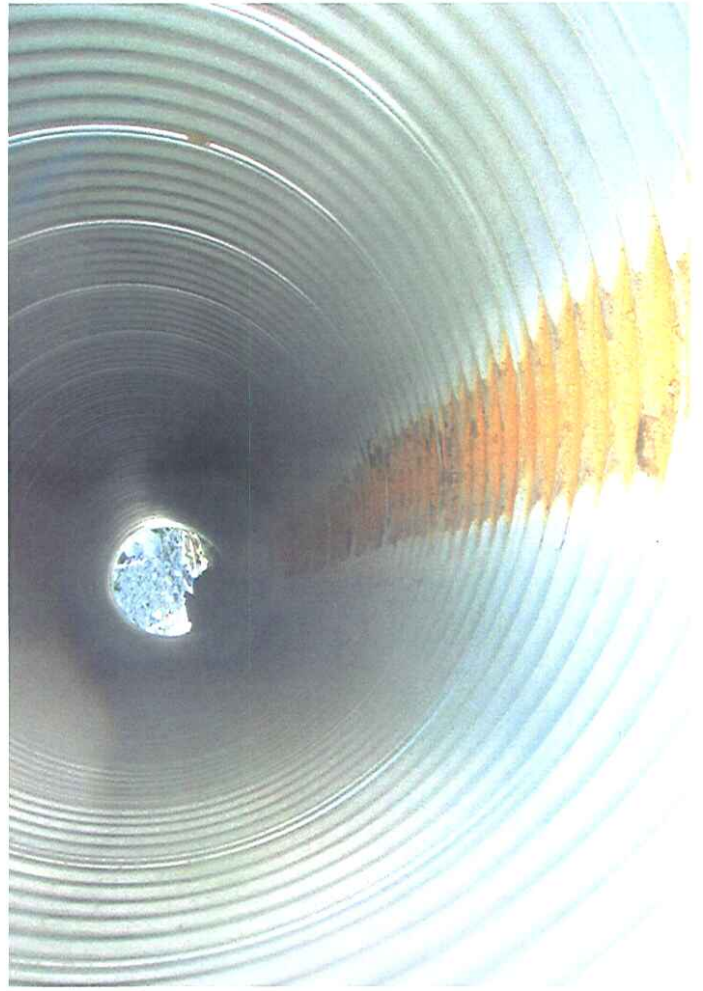
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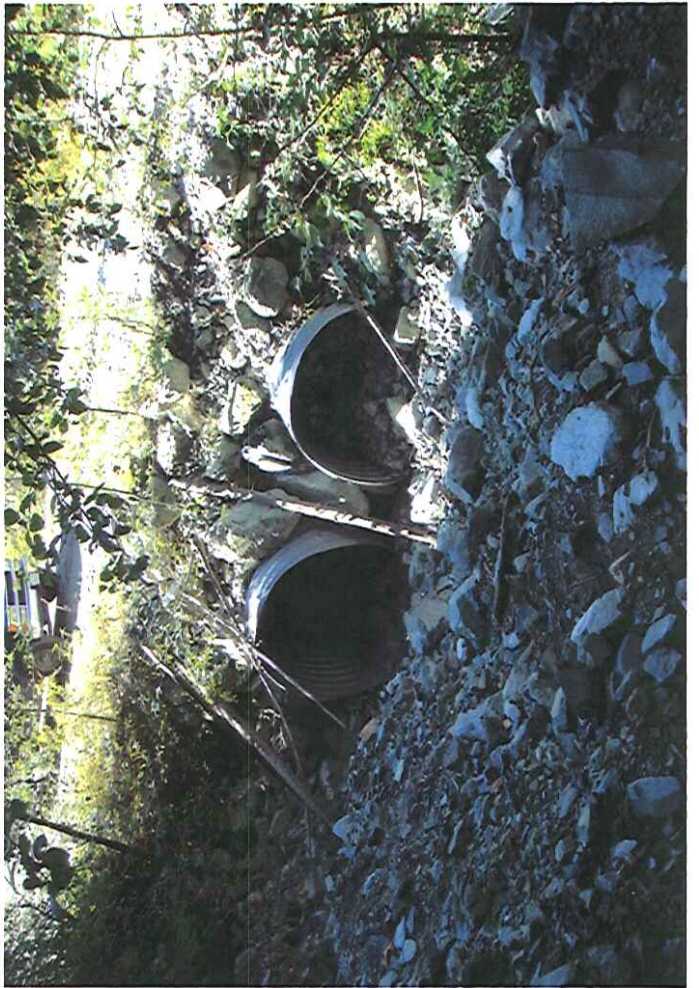
Based on the bed load at the culvert inlets the overall condition of the structure is poor.

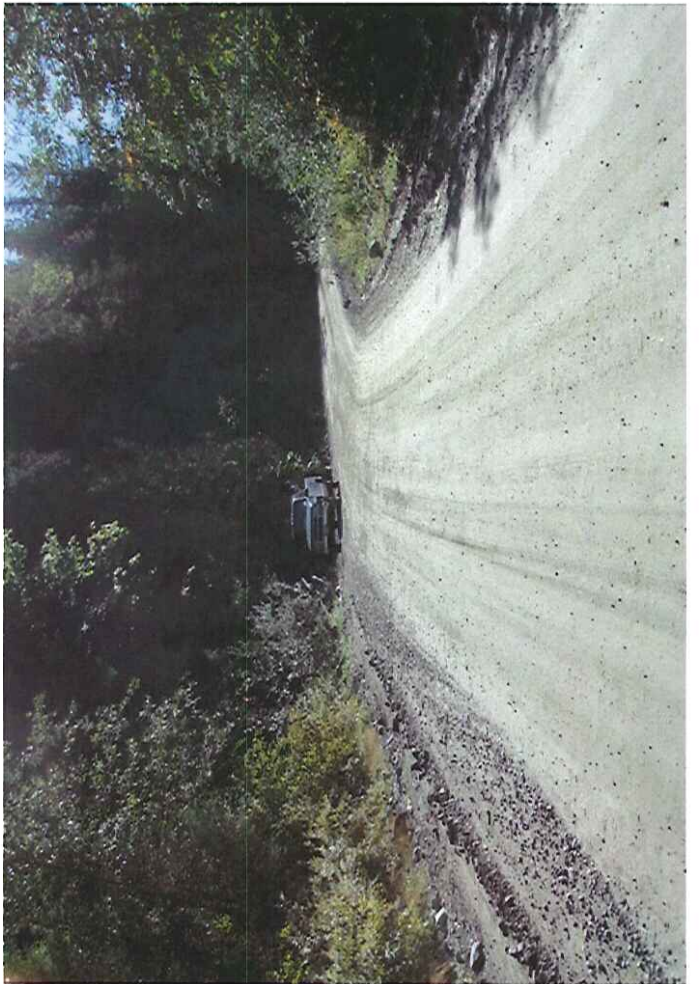
INSPECTOR: s DATE SIGNED: 19-Sep-07 NAD:

REVIEWED AND NOTED BY: RN DATE SIGNED:

NEW LOAD RATING tonnes: GPS







Map / Location

Stream Classification:

#Name?

Culvert

SBFEP/FRM:

BCTS

Culvert Dia:

100mm x 3900mm

Structure Number: Forest Service Road:

CK-2365

Lost Creek

Km:

1.10

Page:

1

Of:

1

Crossing:

Side Creek

District

Chilliwack

Project Number:

8466.01

Date of this
Inspection:

M:

09

Y:

2007

Date of Next
Inspection:

M:

09

Y:

2010

**BRIDGE CLASS
CULVERT**

Year Built:

1987

Number of
Culverts:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge.

b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs.

c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

CULVERT ELEMENT	CONDITION	REMARKS
Inlet	3	
Outlet	3	
Bolts	3	
Connections	3	
Roof	3	
Floor	3	Minor staining at normal water level, 20mm high ripple at
Side Walls	3	
Baffles	6	
Trash Rack	6	
Wing / Head Walls	6	
Coating	3	Galvanized.
Cover / Fill	3	1800mm fill over culvert.
Riprap	3	Well placed, 1.5/1 slope.
Road Approaches	3	Brushed in.
Overall	3	

PRESENT WATER LEVEL	0.10	PRESENT WATER CLEARANCE (m):	2.70	ESTIMATED HIGH WATER LEVEL (m):	1	HAZARD(S) DESCRIPTION:
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HAZARDS

				None
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Repair
Required

Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Brush out approaches.

Professional
Inspection
Required?

No

As-Built
Checked?

No

NUMBER OF
PICTURES TAKEN:

5.00

Narrow Structure Signs?

No

PRESENT POSTED
RATING tonnes:

SUGGESTED REPLACEMENT DATE

at new load rating:

at original design load:

Comments:

The overall condition of the structure is fair.

RETAIN ORIGINAL DESIGN RATING; 136 TONNES.

INSPECTOR

Mark Spence

DATE SIGNED:

19-Sep-07

NAD:

REVIEWED AND NOTED BY:

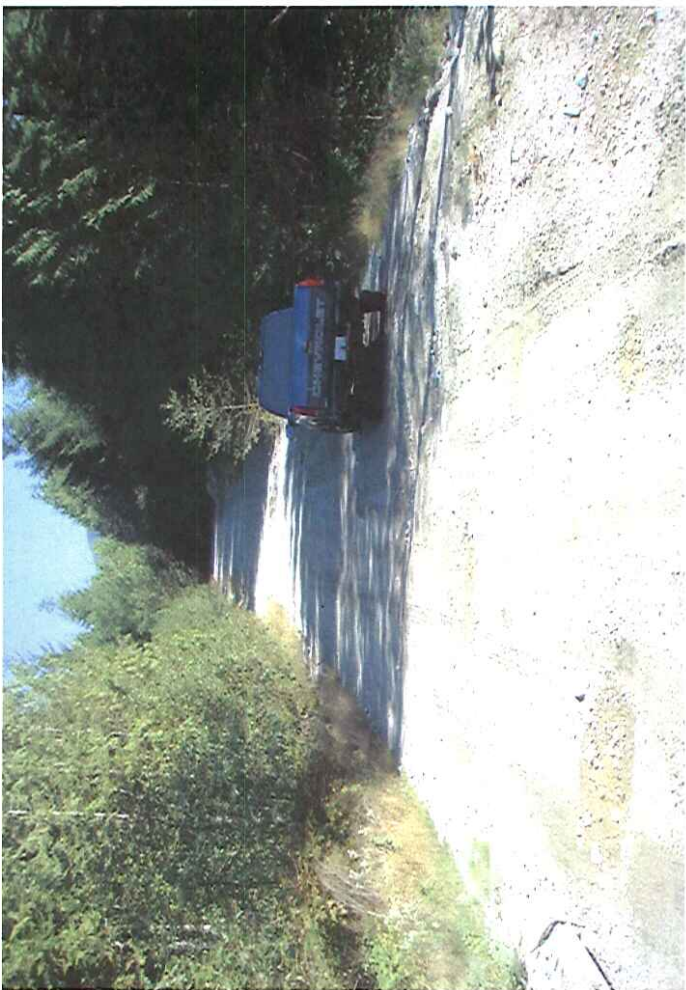
D. Robsek, P. Eng.

RN DATE SIGNED:

Nov 20 08

NEW LOAD RATING tonnes:

GPS





Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2370

Karen Creek

YEAR BUILT:

1.81

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Karen Creek

Chilliwack

21.288 c/c

BCTS

8240.01

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	10mm gravel accumulations on deck (CK-2370-a3).	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	250mm x 250mm untreated fir, longitudanel cracks.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3		Remarks
	Delineators	5	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel, Serial # 12699, L75 (ck-2370-a10).	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bearing pads bulding (ck-2370-a4 to a7).	Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	3	Precast concrete ballast wall, spalling noted at the top of the camp end interior f	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3		Remarks
	Fill	4	Bush side upstream girder burried by fill slope (ck-2370-a9).	Remarks
	Riprap	2		Remarks
	Overall	3		Remarks
APPROACHES	3		Approaches brushed in and located on horizontal and vertical curves.	Remarks

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	2.65	ESTIMATED HIGH WATER LEVEL (m):	0.8	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:
				Install delineators; remove gravel accumulations from deck; ensure fill slope is not in contact with bush side upstream girder.

AS_BUILT CHECKED?	NUMBER OF PICTURES TAKEN:	15	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	L75	SUGGESTED REPLACEMENT DATE
							at new load rating:
							at original design load

Comments: NEW LOAD RATING tonnes: NAD: GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

PRESENT LOAD RATING OF L75 OR 68 TONNES TO CONTINUE.

INSPECTOR

Mark Spence

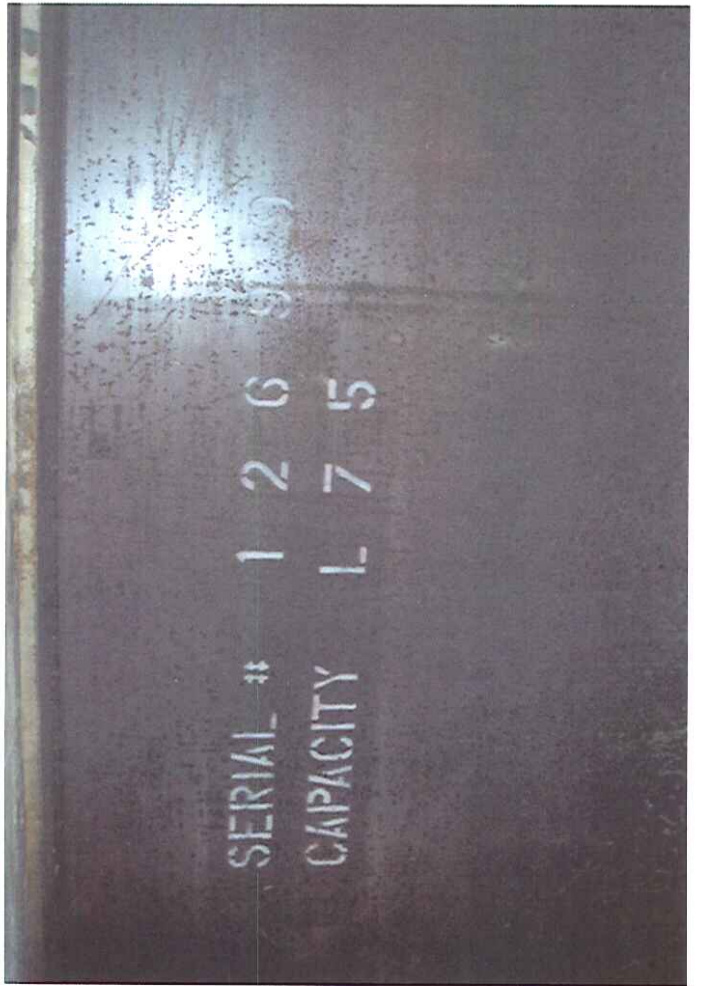
DATE SIGNED: 27-Sep-07

REVIEWED AND NOTED BY:

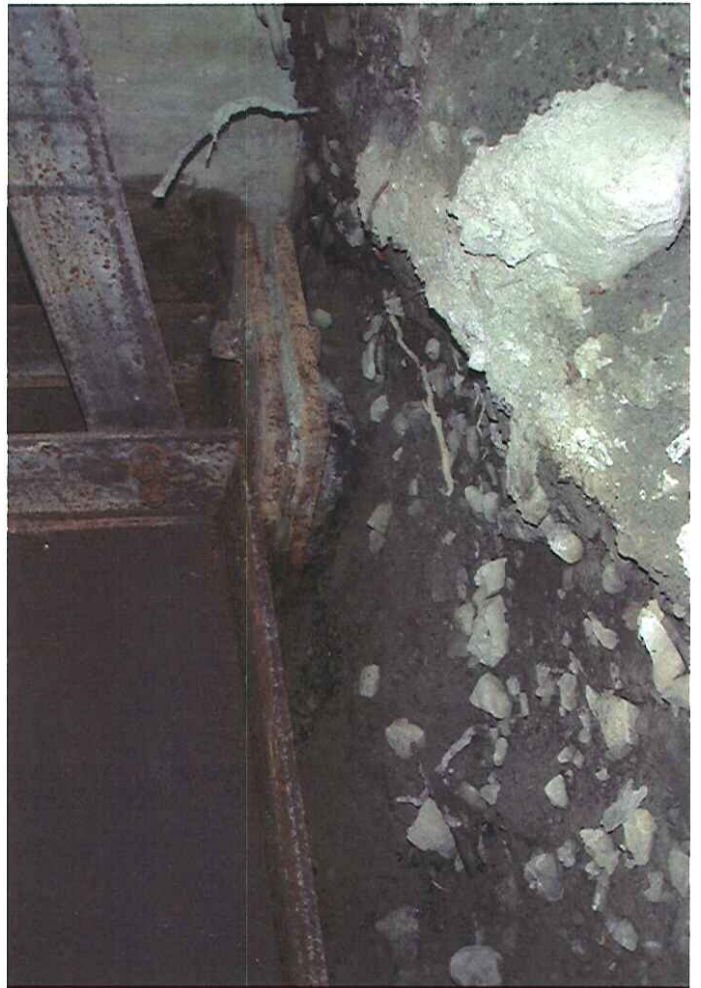
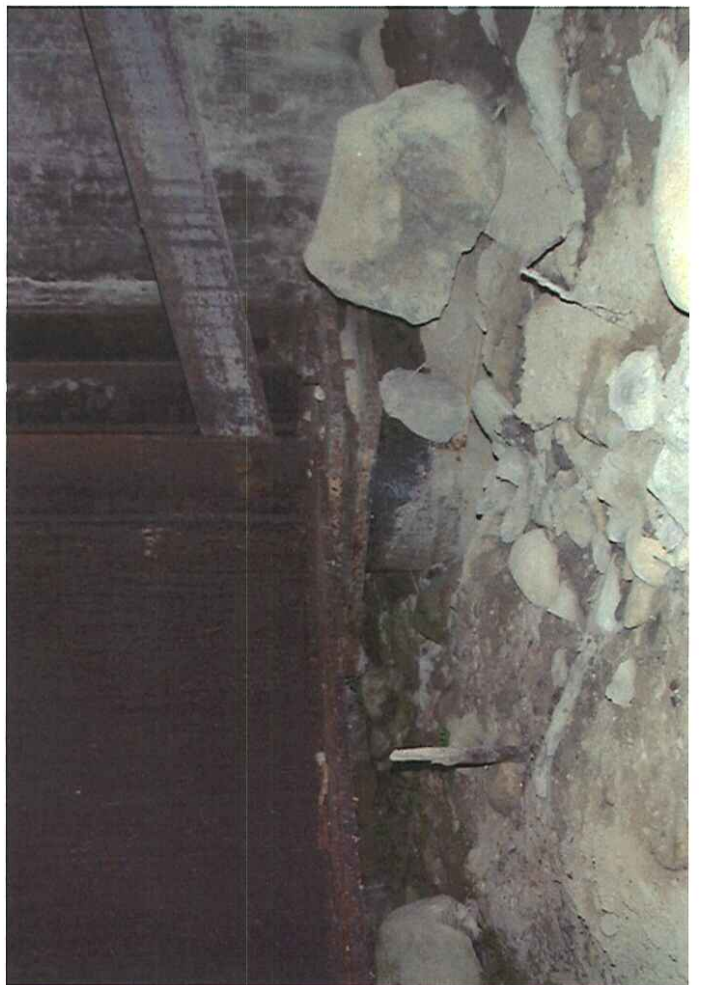
P. ROSEK, P. Eng

SIGNED:

Nov. 20. 2008









Structure Number: Forest Service Road:

CK-2371

Karen Creek

YEAR BUILT:

Km:

Page: Of:

2.26

1	1
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Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

17.5 c/c

BCTS

8240.01

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Composite concrete deck, 10mm to 20mm gravel accumulations (CK-2371-a5).	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	250mm x 250mm untreated fir ties, town side downstream corner starting to loos	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6	No access to grout pockets and panel grout.	Remarks
	Hardware	6		Remarks
Delineators	3	All present.	Remarks	
SUPER-STRUCTURE	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
	Hardware	3	Weathering steel.	Remarks
SPAN #	1			
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Town side bearing bulging 3mm (CK-2371-a6). Bush side upsteam and downstr	Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	3	Concrete ballast walls, minor spalling at approaches (CK-2371-a3-a4).	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access.	Remarks
	Hardware	6		Remarks
	Fill	2	Retaining fill well.	Remarks
	Riprap	2		Remarks
	Overall	3		Remarks
APPROACHES	3	Located on a wide horizontal curve, %15 favorable grade.	Remarks	

PRESENT WATER LEVEL (m):	0.20	PRESENT WATER CLEARANCE	2.50	ESTIMATED HIGH WATER LEVEL (m):	0.8	HAZARD(S) DESCRIPTION:
--------------------------	------	-------------------------	------	---------------------------------	-----	------------------------

HAZARDS:					None
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Repair Required?
<p> ☐ No ☐ Yes </p>

Yes

Professional
Inspection
Required?

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Clear gravel accumulations from deck.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	13	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	62	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	NAD:	GPS				
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The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

RETAIN PRESENT LOAD RATING OF L75 OR 66 TUNNES.

INSPECTOR

K. MacDonald

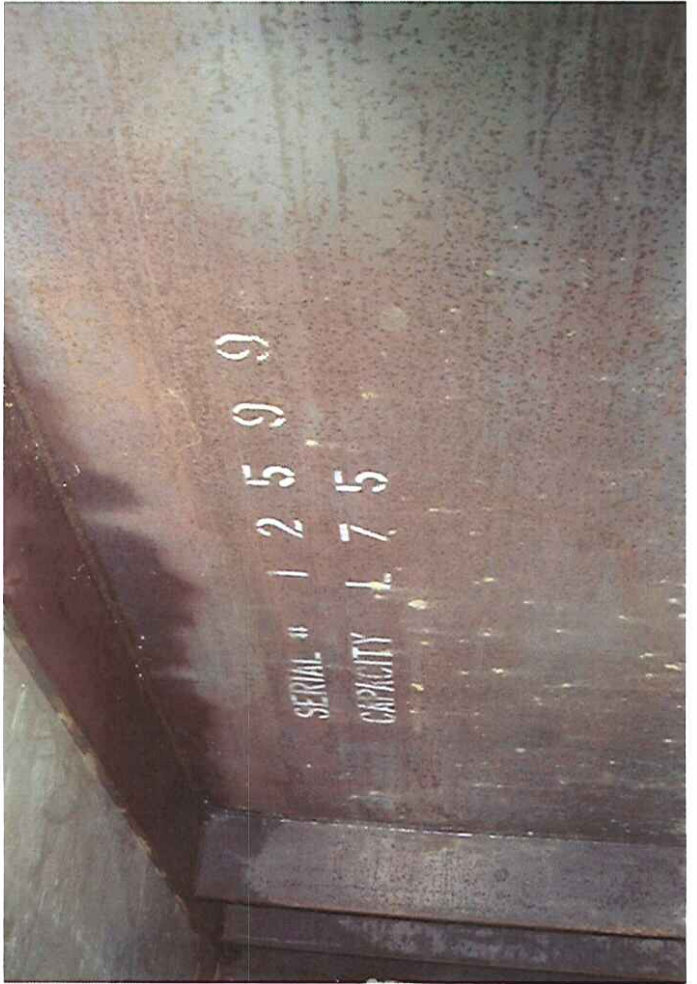
DATE SIGNED _____

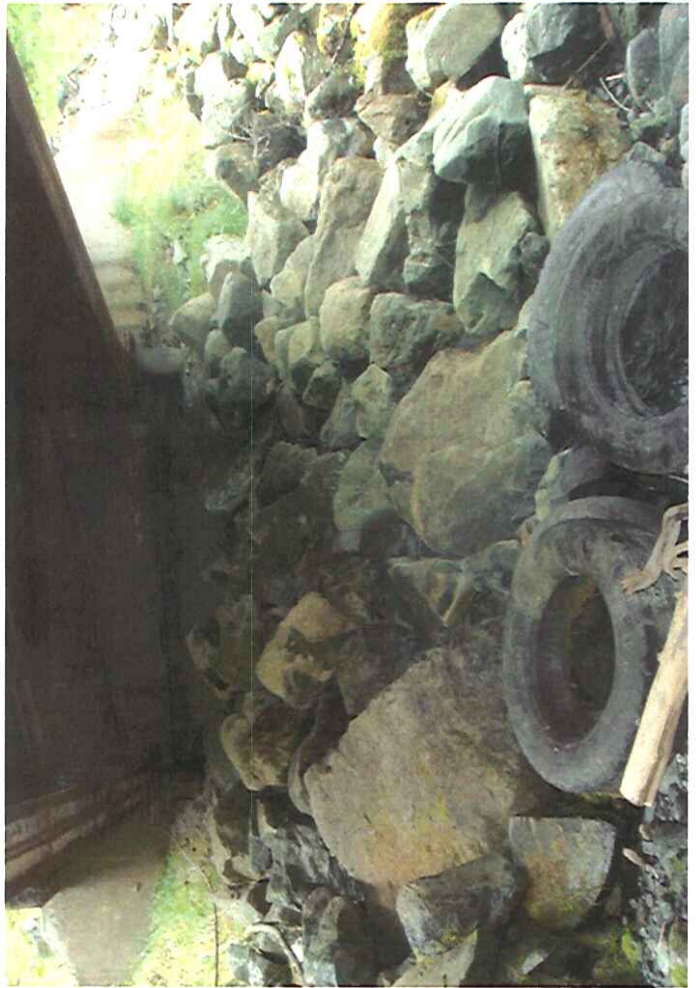
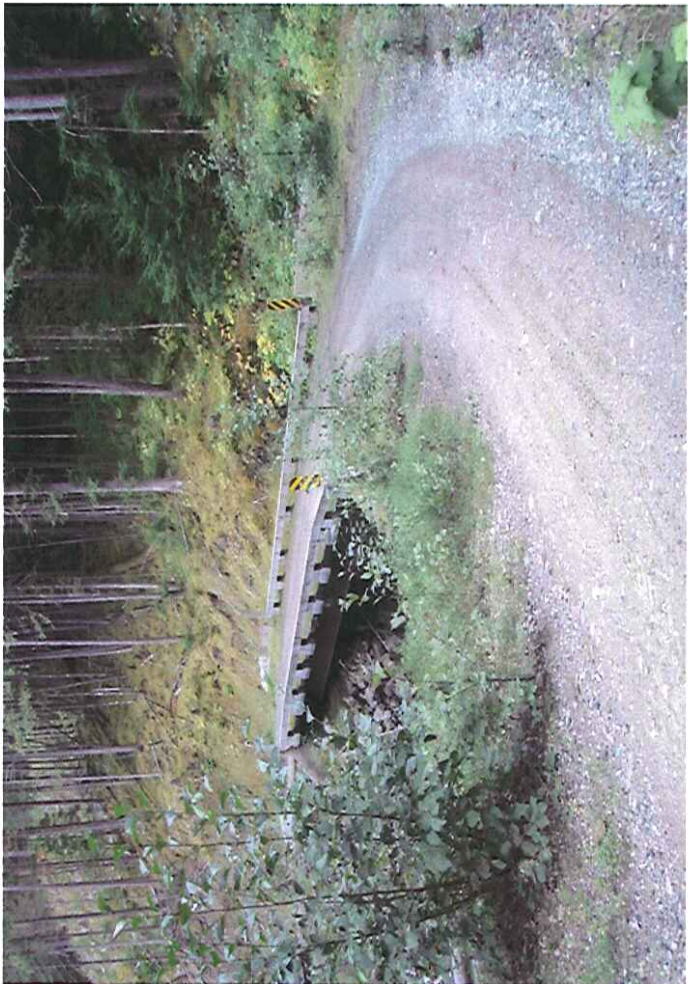
27-Sep-07

REVIEWED AND NOTED BY:

D. L. R. 1/1

SIGNED: Ken McLean









Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km:

Page: Of:

CK-2378

Stave River

YEAR BUILT:

8.80

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Winslow Side Channel

Chilliwack

29.6 c/c

BCTS

8013.01

Date of this Inspection: M: 09 Y: 2007 Date of Next Inspection: M: 09 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	3	Concrete deck, minor spalling at approaches along wheel path (CK-2378-a3 and	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3		Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	3	Deck attached with clips.	Remarks
	Hardware	3	Bush side rubber joint between panel 1 and panel 2 protruding (CK-2378-a5).	Remarks
SUPER-STRUCTURE	Delineators	4	One delineator present.	Remarks
	Girders / Slabs	3	Weathering steel.	Remarks
	Diaphragms	3	Weathering steel.	Remarks
	Bracing	3	Weathering steel.	Remarks
	Trussing	6		Remarks
SPAN #	Hardware	3	Weathering steel.	Remarks
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
ABUTMENTS	Overall	6		
	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	Bearing pads differ in thicknesses from from town side to bush side.	Remarks
	Piles or Posts	6	No access.	Remarks
	Concrete	3	Precast concrete ballast wall, minor spalling at town and bush side approaches	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	3		Remarks
	Hardware	3		Remarks
	Fill	3	Fill spilling out from ballast wall at bush side downstream corner (CK-2378-a7, as	Remarks
APPROACHES	Riprap	3	Town side: Scour damage has created a 1.3m vertical face immediately below the	Remarks
	Overall	3	Minor potholes at approach.	Remarks

PRESENT WATER LEVEL (m):	2.40	PRESENT WATER CLEARANCE	3.90	ESTIMATED HIGH WATER LEVEL (m):	3.9	HAZARD(S) DESCRIPTION:
						Scour damage at both abutments.

HAZARDS:		Scour		REPAIR DESCRIPTIONS AND COST ESTIMATE:
Repair Required?	Yes	Professional Inspection Required?	No	Install missing delineators.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	16	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:	NAD:	GPS				
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The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

Retain present load rating of 68 tonnes (L75)

INSPECTOR

Mark Spence

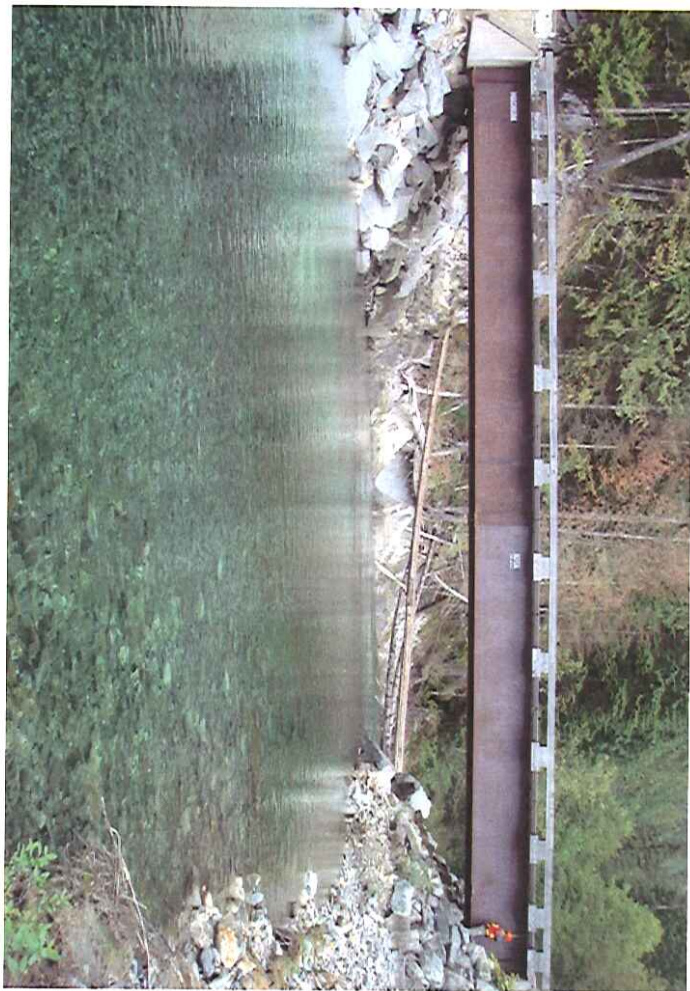
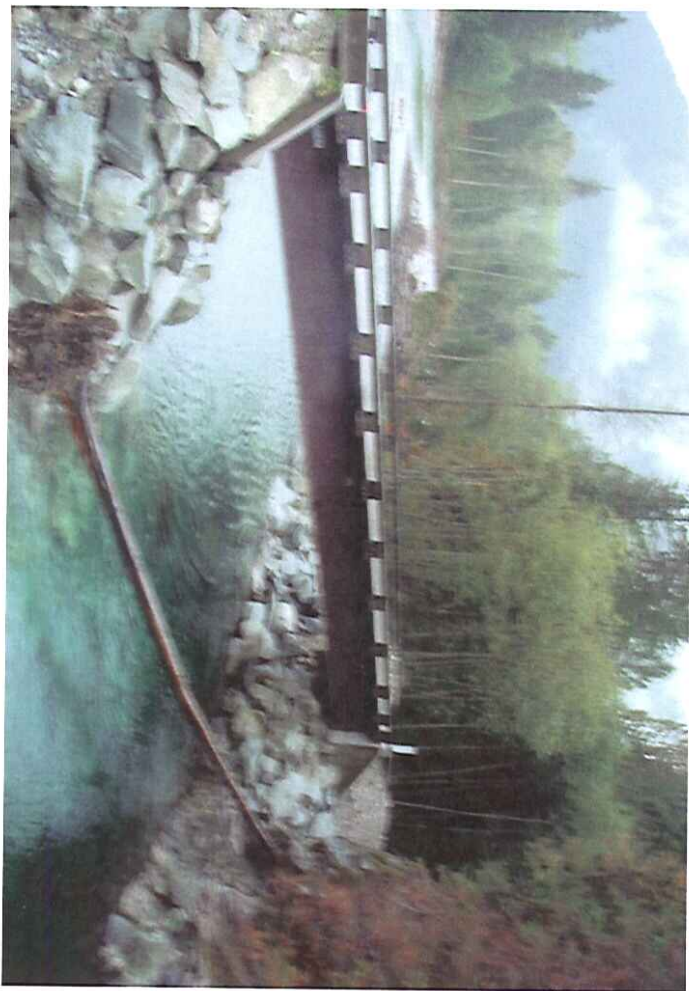
DATE SIGNED: 18-Sep-07

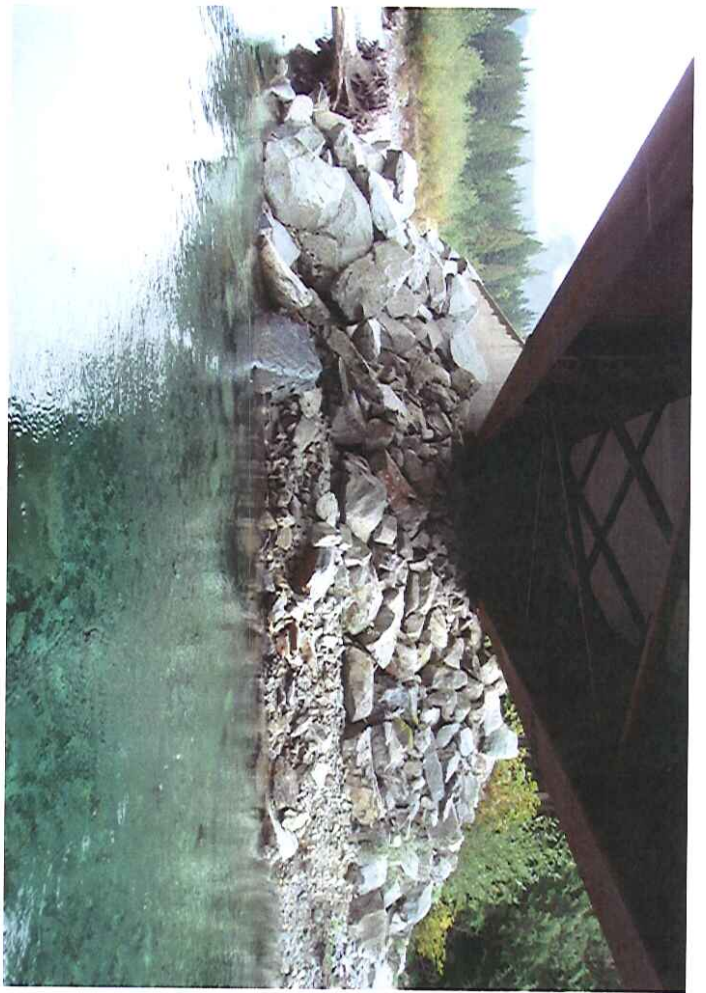
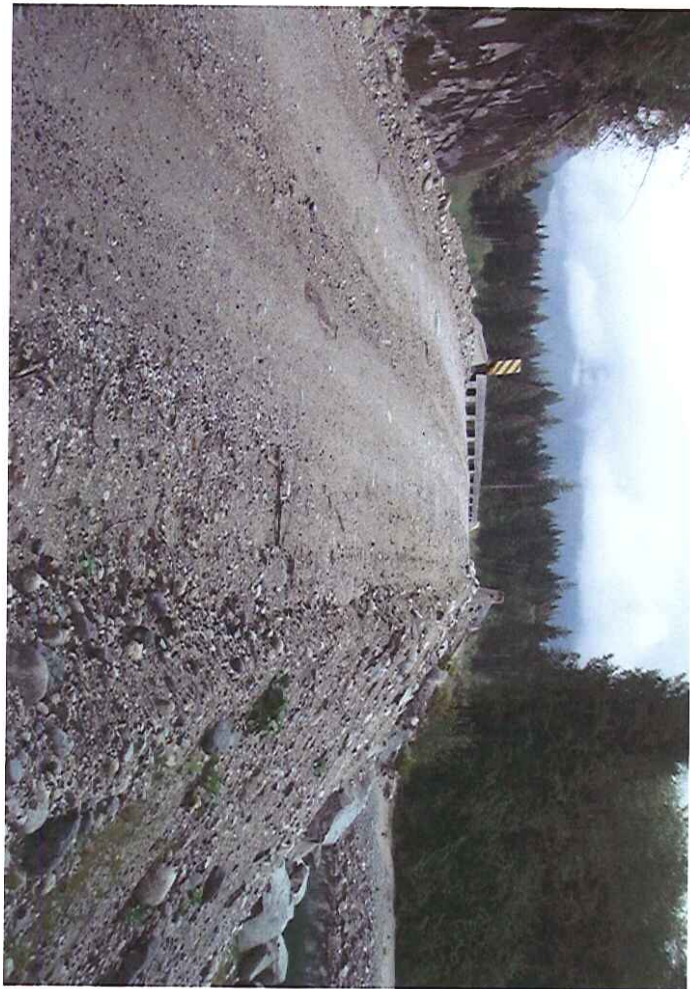
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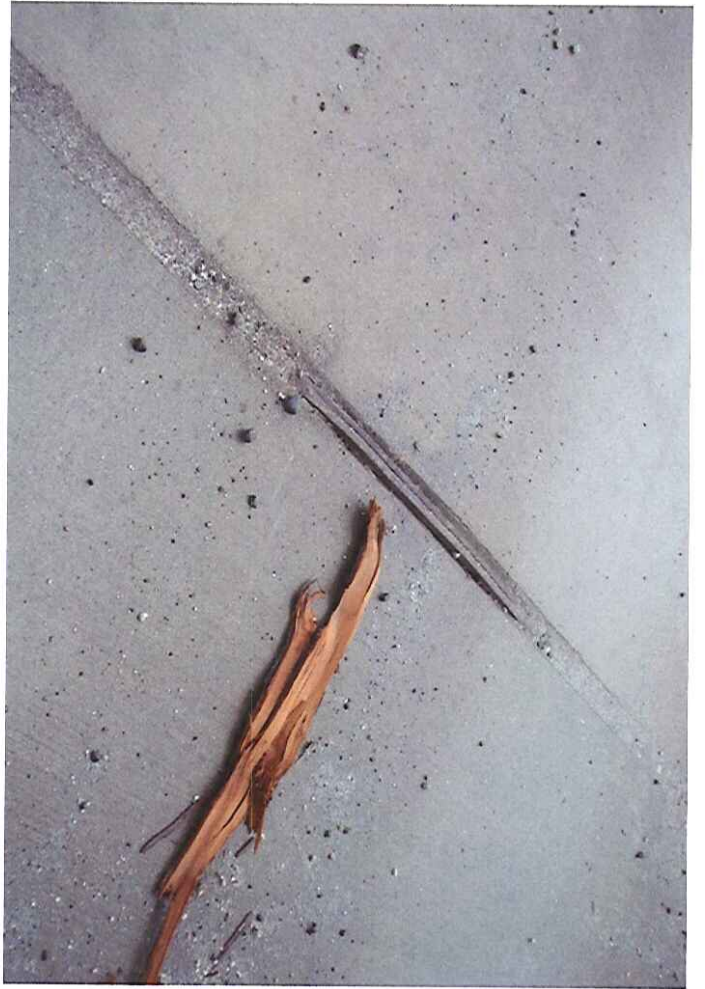
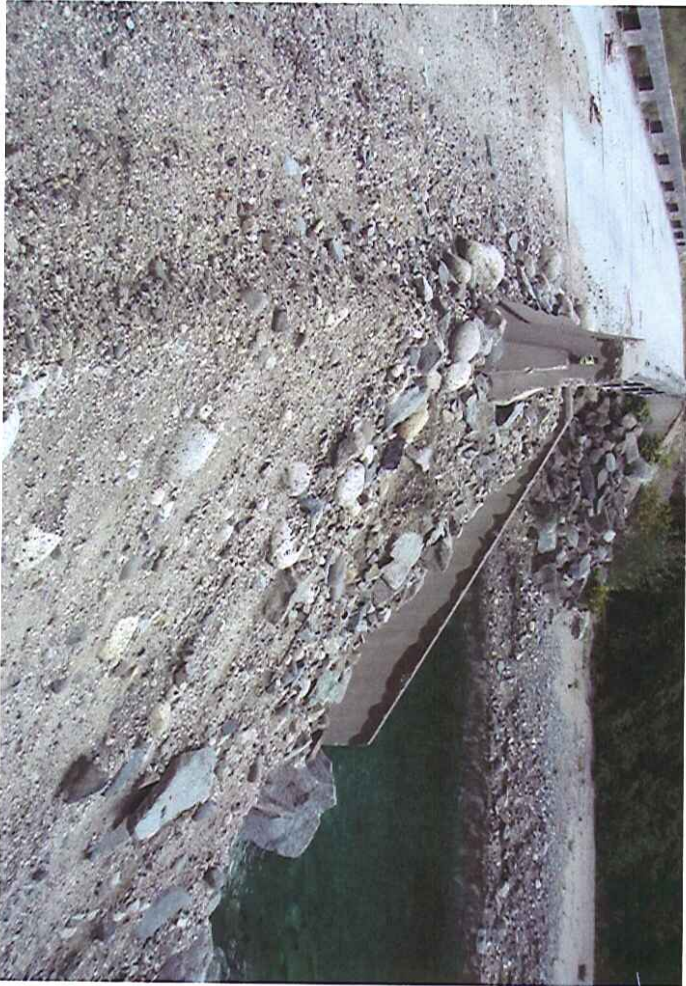
Ereg Dohm, Perry

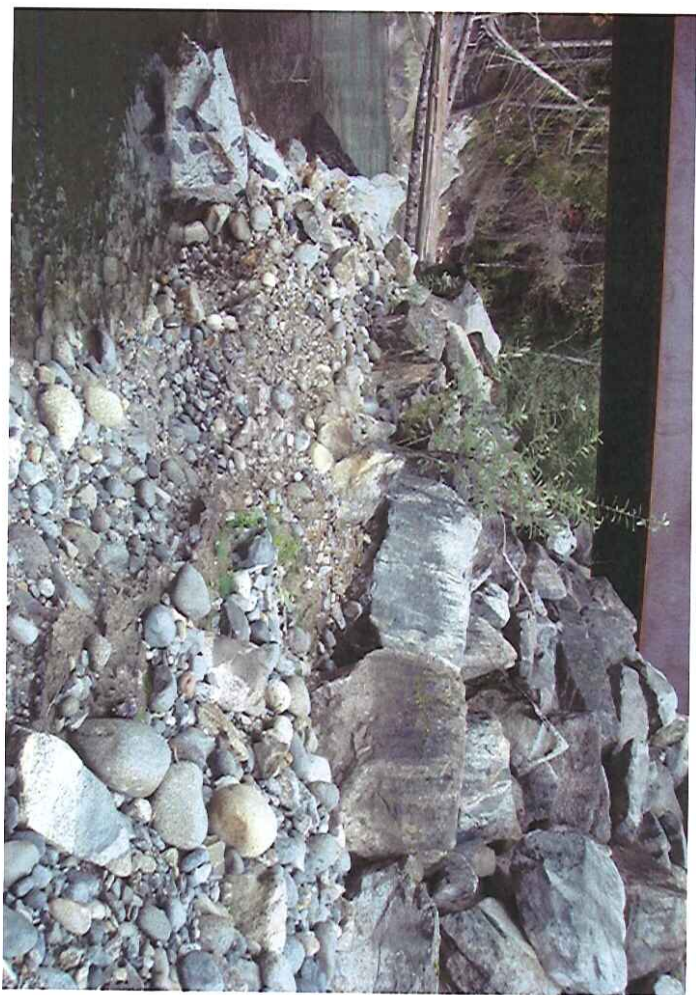
SIGNED:

Dec 17/08









Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2387

Chilliwack River

YEAR BUILT:

6.70

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Paleface Creek Side Channel

Chilliwack

17.20 c/c

BCTS

5127.01

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	6		Remarks
	Concrete Deck	1	Composite concrete deck, flared at approaches.	Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	1	W-beam guide rail.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	1	Grout pockets in good condition (CK-2387-a3).	Remarks
	Delineators	1		Remarks
SUPER-STRUCTURE	Girders / Slabs	1	Weathering steel. Identification #053-05, Cap CL625, Date 10-05-05, Paleface#2	Remarks
	Diaphragms	1	Weathering steel. ✓	Remarks
	Bracing	1	Weathering steel. ✓	Remarks
	Trussing	6		Remarks
	Hardware	1	Weathering steel. ✓	Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	1	Bearings. ✓	Remarks
	Piles or Posts	6		Remarks
	Concrete	1	Precast concrete ballast wall. ✓	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6	No access. ✓	Remarks
	Hardware	3		Remarks
	Fill	3		Remarks
	Riprap	4	Bush side downstream corner of riprap toe has collapsed (CK-2387-a5 and a6).	Remarks
	Overall	4		Remarks
APPROACHES		3	Located on horizontal curve. Bush side approach potholed. ✓	Remarks

PRESENT WATER LEVEL (m):	0.10 ✓	PRESENT WATER CLEARANCE	2.40 ✓	ESTIMATED HIGH WATER LEVEL (m):	1.3 ✓
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HAZARD(S) DESCRIPTION:

Collapsed bush side downstream corner riprap indicates a scour hazard exists for this structure. Additionally, a large amount of bed load movement upstream of the crossing indicates a debris hazard for this structure.

HAZARDS: Debris Scour

Repair Required?	Yes	Professional Inspection Required?	No
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REPAIR DESCRIPTIONS AND COST ESTIMATE:

Repair bush side downstream riprap. ✓

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	10	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	CL625	SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments: NEW LOAD RATING tonnes: CL625 NAD: GPS

The overall condition of the structure is fair. Consider installing narrow structure signs at approaches.

Retain present load rating of CL625 (63.8 tonnes)

INSPECTOR

K. MacDonald

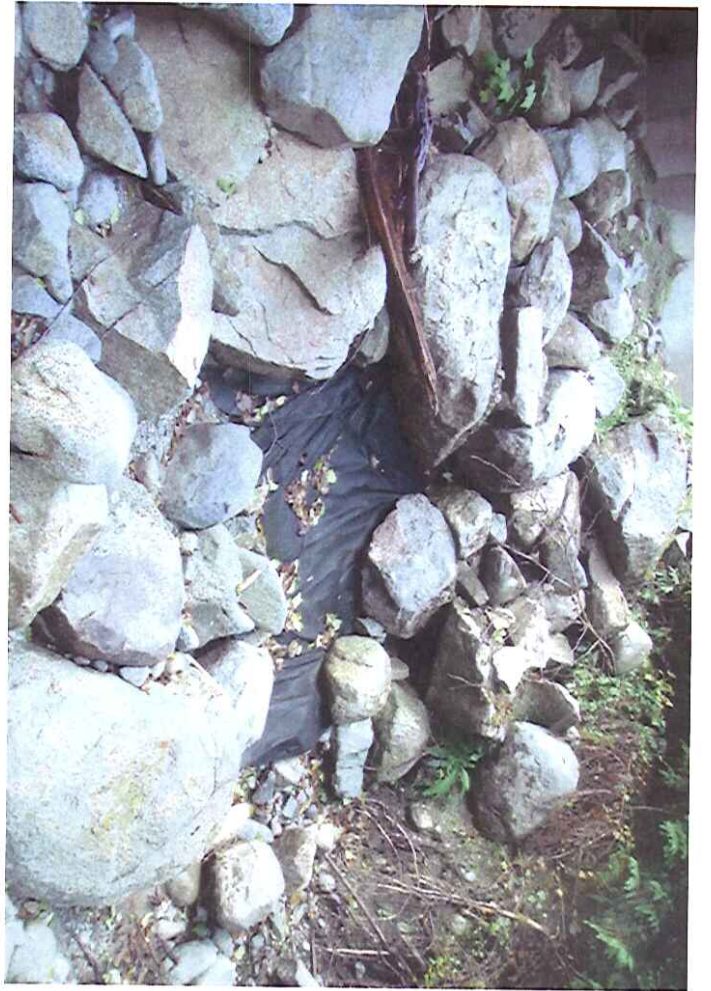
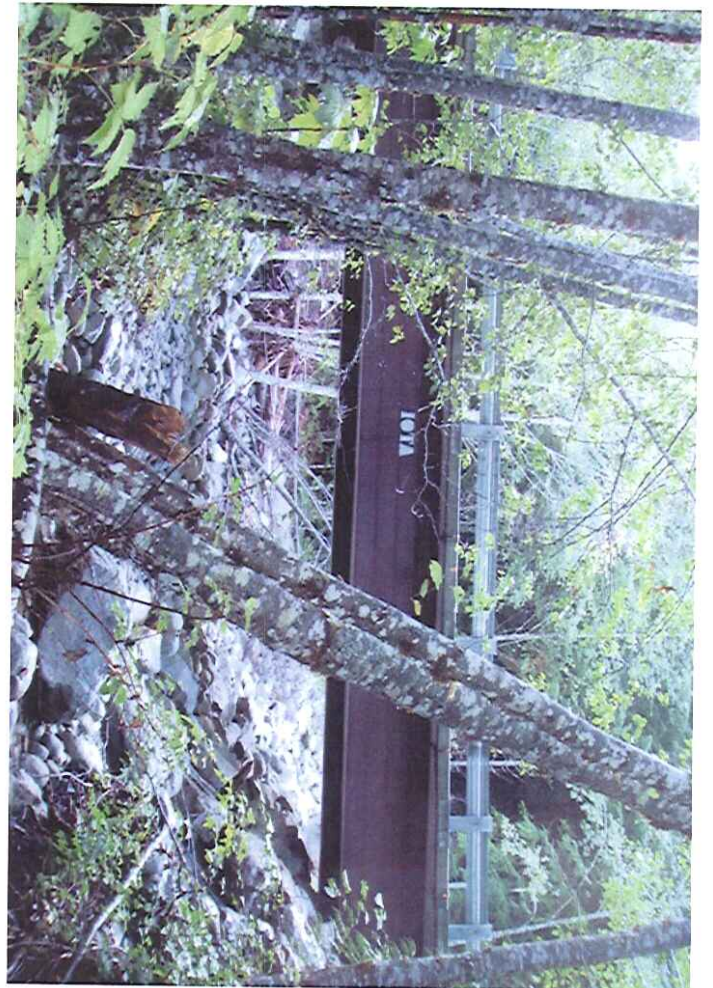
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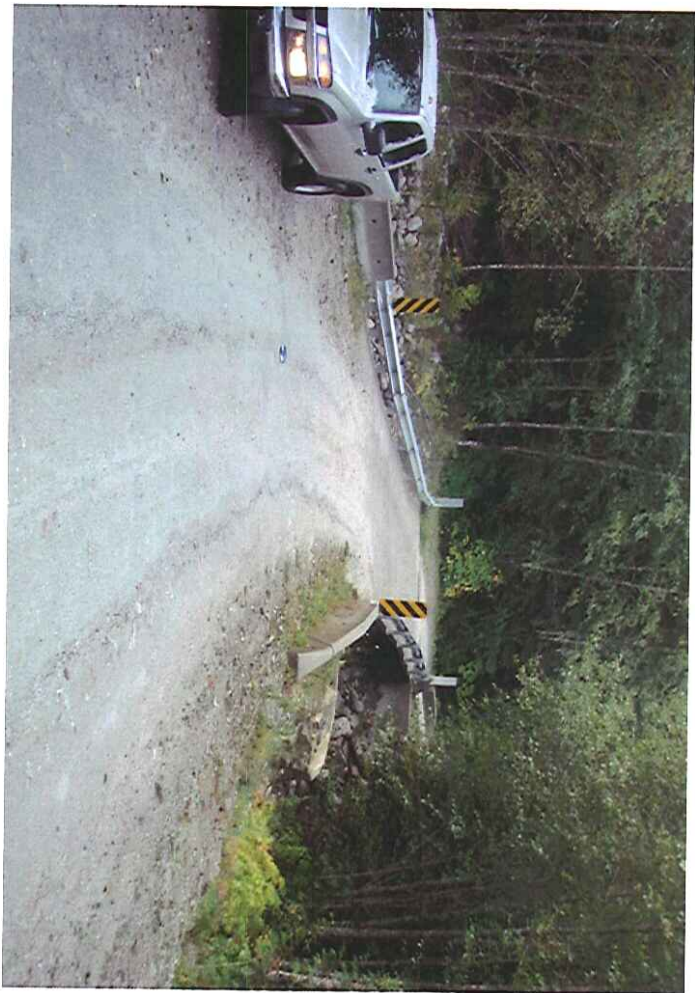
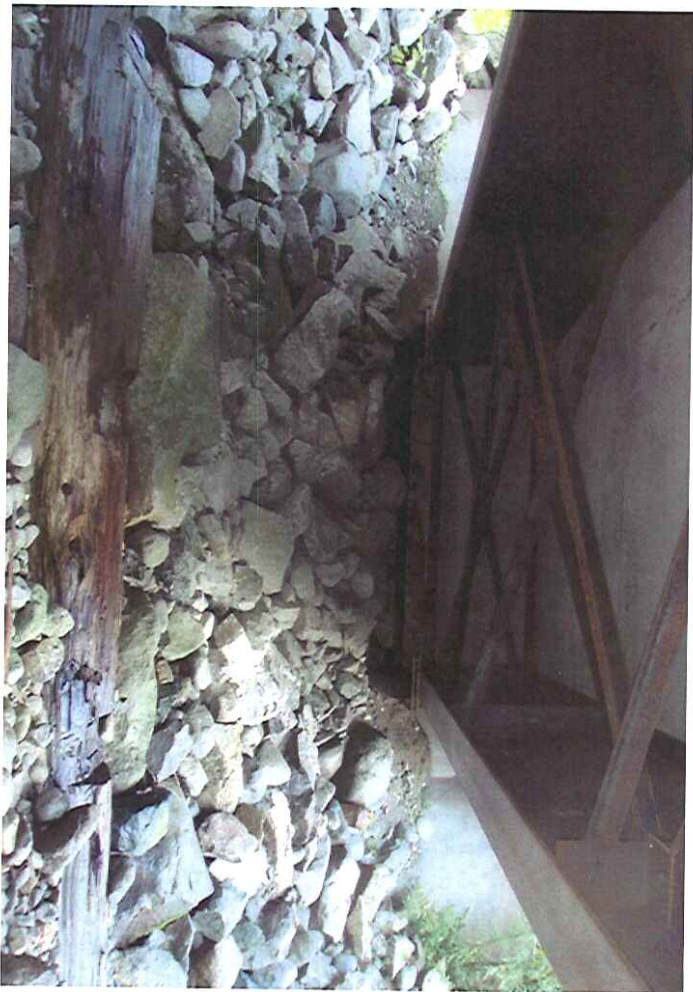
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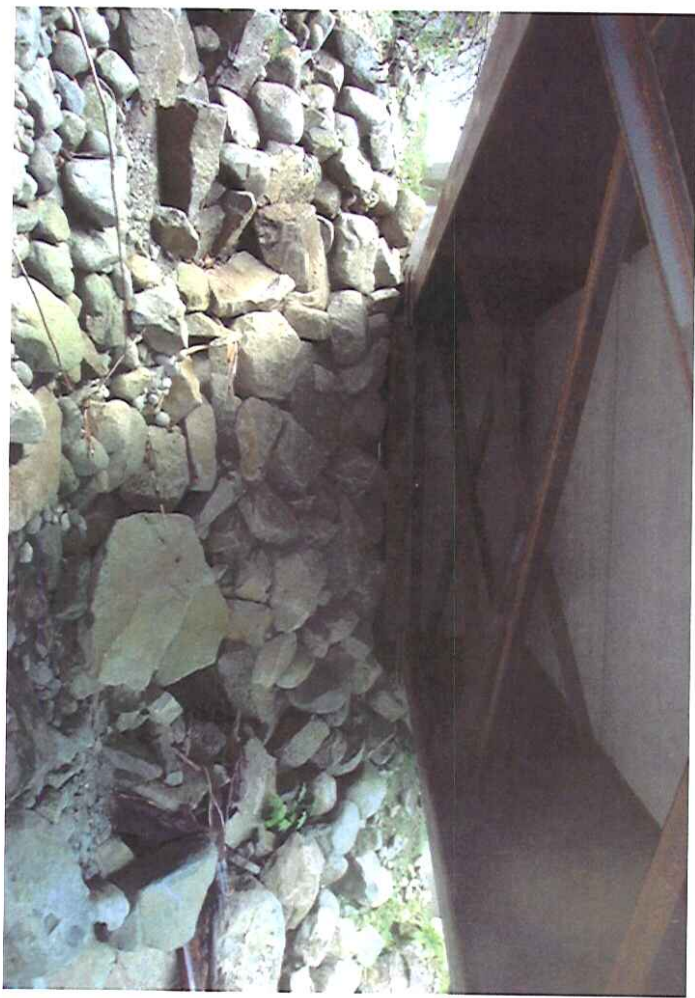
H. Dohm, Perry

SIGNED:

Dec 9/08







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2394

Harrison East

0.20

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Big Silver Creek

Chilliwack

0

BCTS

5748.02

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	
DECK	Running Planks	6	500mm gravel cover.	Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	1000mm fir curb logs with 40mm sap rot. Upstream curb log has shifted outward re	Remarks
	Delineators	5	No delineators present.	Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				20		Stringer Comments
	1				8										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Diameter mm	760	1000	1000	1200	1100	1050	970	820							Sap rot recorded. Longitudinal cracks noted along the entire length of stringer #4; it appears that stringer #4 is no longer functioning + is supported entirely by needle beams
Rot mm	20	20	20	20	20	20	25	10							
Species	Fd	Fd	Fd	Fd	Fd	Fd	Fd	Fd							

		CONDITION	REMARKS	
NEEDLE BEAM(S) SHIMS		5	2 fir needle beams, no access, shims and lashing loose, needle beams no longer fu	
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	3	Town side: 1000mm cedar sill log on bedrock, upstream corner supported	Remarks
	Tie-backs	3	Town side/Bush side: 900mm average diameter tie-backs, 20mm sap rot.	Remarks
	Caps or Sills	6		Remarks
	Piles or Posts	6		Remarks
	Concrete	6		Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6	No lashing or steel pins noted.	Remarks
	Fill	3	Retaining fill adequately.	Remarks
	Riprap	6	No riprap present.	Remarks
	Overall	3		Remarks
APPROACHES		5	Moderate potholes at approaches, heavily brushed in (CK-2394-a3), town	Remarks

PRESENT WATER LEVEL (m):	1.20	PRESENT WATER CLEARANCE	2.30	ESTIMATED HIGH WATER LEVEL (m):	2.7
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HAZARD(S) DESCRIPTION:

Estimated high water clearance is 600mm.

HAZARDS: High Water

Repair Required? Yes

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Professional Inspection Required? No

Replace structure.

AS_BUILT CHECKED? No NUMBER OF PICTURES TAKEN: 12 NARROW STRUCTURE SIGNS? No PRESENT POSTED RATING tonnes:

SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the condition of stringer #4 and the fact that the needle beams are no longer functioning, the overall condition of this structure is poor. We recommend that the structure be replaced in the near future.

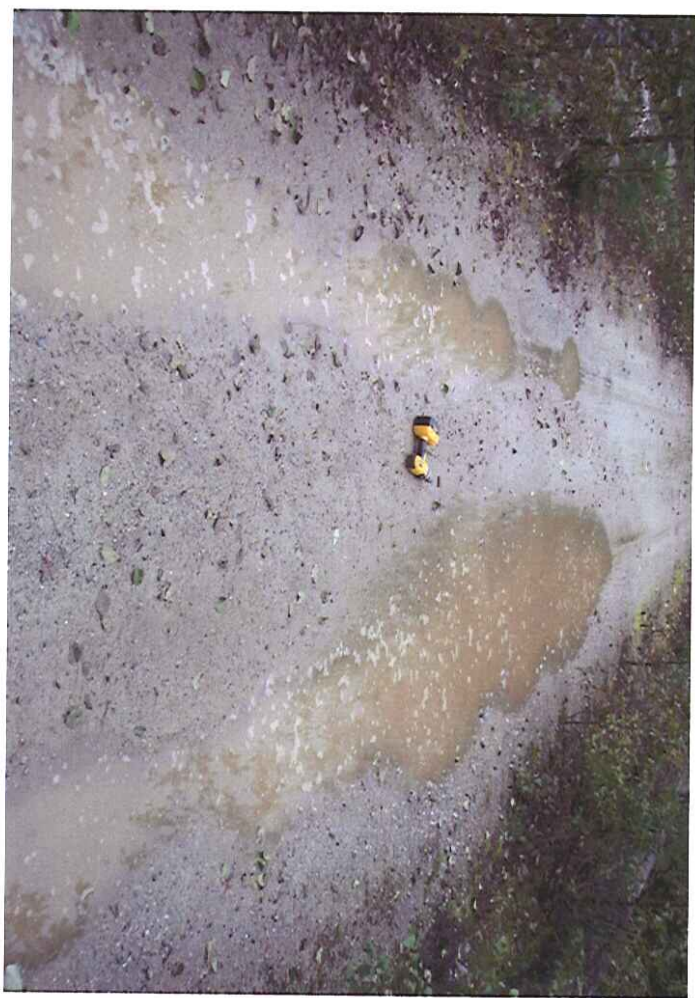
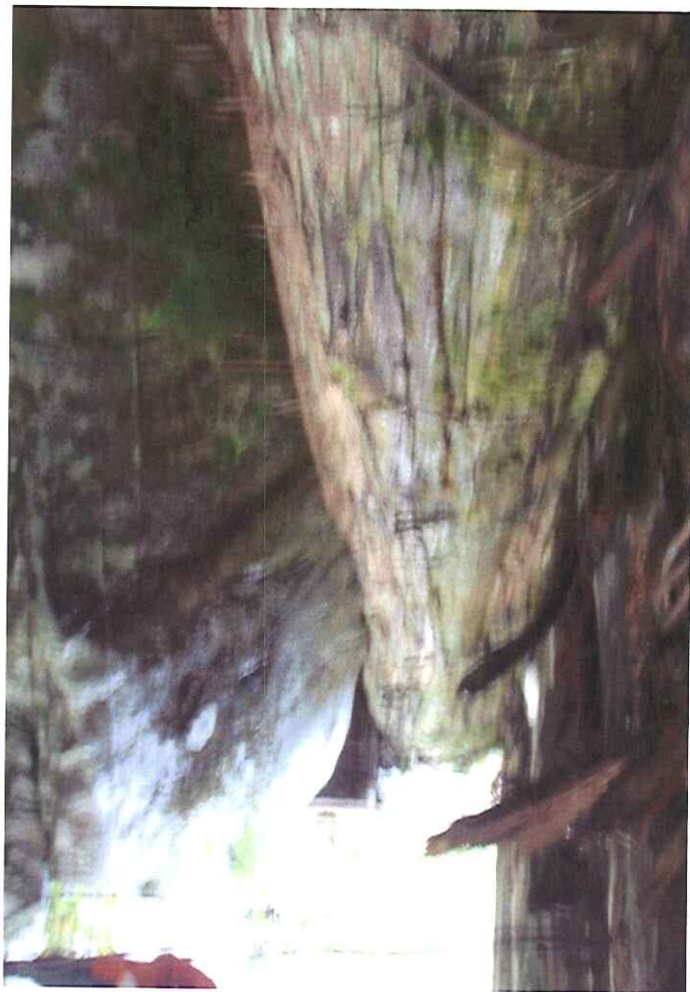
Strongly recommend bridge closure, and replacement.

INSPECTOR K. MacDonald DATE SIGNED: 03-Oct-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: G. Dohm, P. Eng. RN DATE SIGNED: Dec 17/08







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2397

Harrison East - Shovel Creek

3.30

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Side Creek

Chilliwack

12.2 c/c

BCTS

5748.01

Date of this M: 10 Date of Next M: 10 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	3 100mm x 300mm untreated fir. Fines accumulating on deck (CK-2397-a9). Approa
	Ties	3 300mm x 300mm untreated fir over 300mm gravel deck (CK-2397-a7).
	Nails	3
	Curbs and Blocks	5 300mm cypress curb logs. Curb logs not attached to structure (CK-2397-a9). Gap
	Delineators	5 No delineators present.

STRINGERS	Span Number:		Number of Stringers:		Average Stringer Rot Depth For Wood Culvert (mm):		10		Stringer Comments
	1	2	3	4	5	6	7	8	
	1150	1200	800	920	1150				
	30	15	10	10	10				
	Cw	Cw	Cw	Cw	Cw				

CONDITION		REMARKS
NEEDLE BEAM(S) SHIMS	6	
PIERS	Caps	6
	Piles or Posts	6
	Concrete	6
	Bracing or Sheat	6
	Cribs	6
	Hardware	6
	Riprap	6
	Overall	6
ABUTMENTS	Cribs	4 Town side: 2 log high cedar crib, face log #1 (number from bottom) 1000 r
	Tie-backs	4 Town side: 1 row of 3 tiebacks (800mm) with 20mm sap rot, exposed ends
	Caps or Sills	3 Bush side: 1200mm cedar sill log; 500mm thick shell remaining; longitudir
	Piles or Posts	6
	Concrete	6
	Bulkhead Planks	6
	Wing Wall Planks	6
	Bracing	6
	Hardware	3
	Fill	4 Large void at bush side upstream approach indicates crib is not retaining f
	Riprap	6 No riprap present.
	Overall	4
APPROACHES	4	Moderate potholes at approaches. Bush side approach has a 800mm wid

PRESENT WATER LEVEL (m):	0.90	PRESENT WATER CLEARANCE	1.90	ESTIMATED HIGH WATER LEVEL (m):	2	HAZARD(S) DESCRIPTION:
						Scour damage and undermining of abutments.

HAZARDS: Scour

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	13	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
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SUGGESTED REPLACEMENT: at new load rating: at original design load

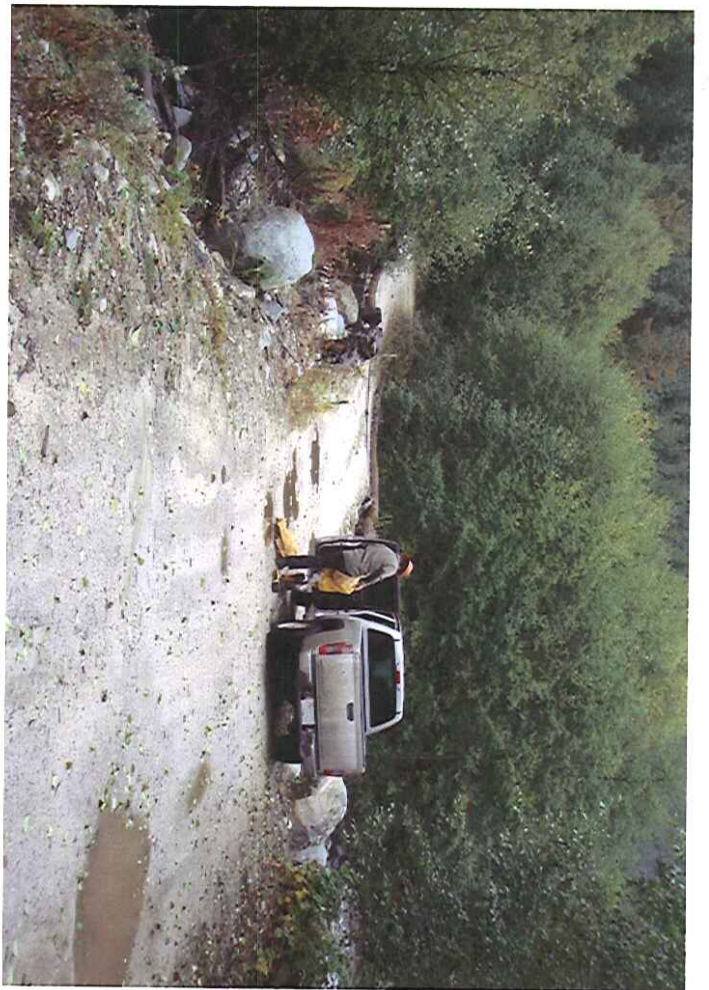
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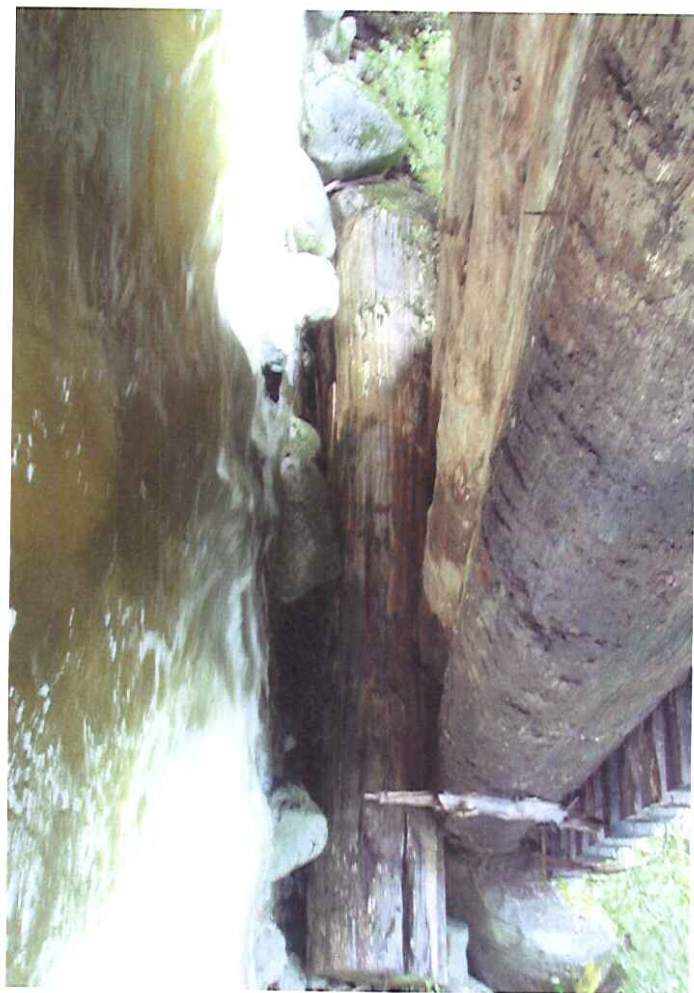
Based on the condition of the abutments the overall condition of this structure is poor; this structure should be considered for replacement in the near future.

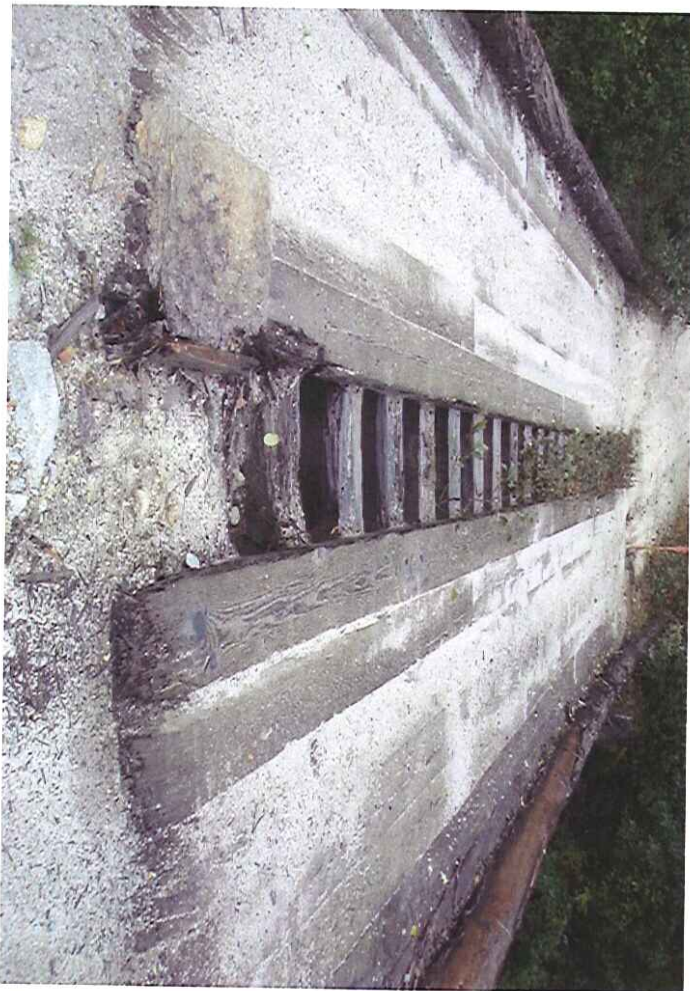
Recommend closure until approaches abutment and curbs repaired. Once repairs are completed load

INSPECTOR Mark Spence DATE SIGNED: 03-Oct-07 NEW LOAD RATING tonnes: *5 tonne*

REVIEWED AND NOTED BY: *Griffin, P. Ege* RN DATE SIGNED: *Dec 17/08*









Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2400 Nesakwach Lake

YEAR BUILT: 2003

1.07

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Chilliwack

11.7 c/c

BCTS

5127.16

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2009 BRIDGE CLAS Semi Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	3	All Steel Portable, epoxy-bonded anti-skid surfacing starting to wear along wheel	Remarks
	Concrete Deck	6		Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	Tubular steel rails.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	4		Remarks
	Delineators	5	No delineators present.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Magnum L75 July 03 1078. 2440mm x 12.2m All Steel Portable (CK-2400-a3).	Remarks
	Diaphragms	6	No access.	Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	6		Remarks
SPAN #				
1				
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	6		Remarks
	Caps or Sills	3	2 x 250mm x 250mm treated fir timber sills.	Remarks
	Piles or Posts	6		Remarks
	Concrete	3	3 high lock block abutment.	Remarks
	Bulkhead Planks	3	3 high 150mm x 150mm treated fir.	Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	3	Bolted to timber sill (CK-2400-a5).	Remarks
	Fill	3	Retaining fill adequately.	Remarks
	Riprap	2		Remarks
	Overall	3		Remarks
APPROACHES		3	Brushed in.	Remarks

PRESENT WATER LEVEL (m):	0.40	PRESENT WATER CLEARANCE	2.50	ESTIMATED HIGH WATER LEVEL (m):	1.5	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?

Yes

Professional Inspection Required?

No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Install delineators and brush out approaches.

AS_BUILT CHECKED?	NUMBER OF PICTURES TAKEN:	7	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	L75 ✓	SUGGESTED REPLACEMENT DATE
							at new load rating:
							at original design load

Comments: NEW LOAD RATING tonnes: NAD: GPS

The overall condition of this structure is fair. Consider installing narrow structure signs at approaches.

PRESENT RATING OF L75 OR 68 TONNES TO CONTINUE.

INSPECTOR

Mark Spence

DATE SIGNED: 02-Oct-07

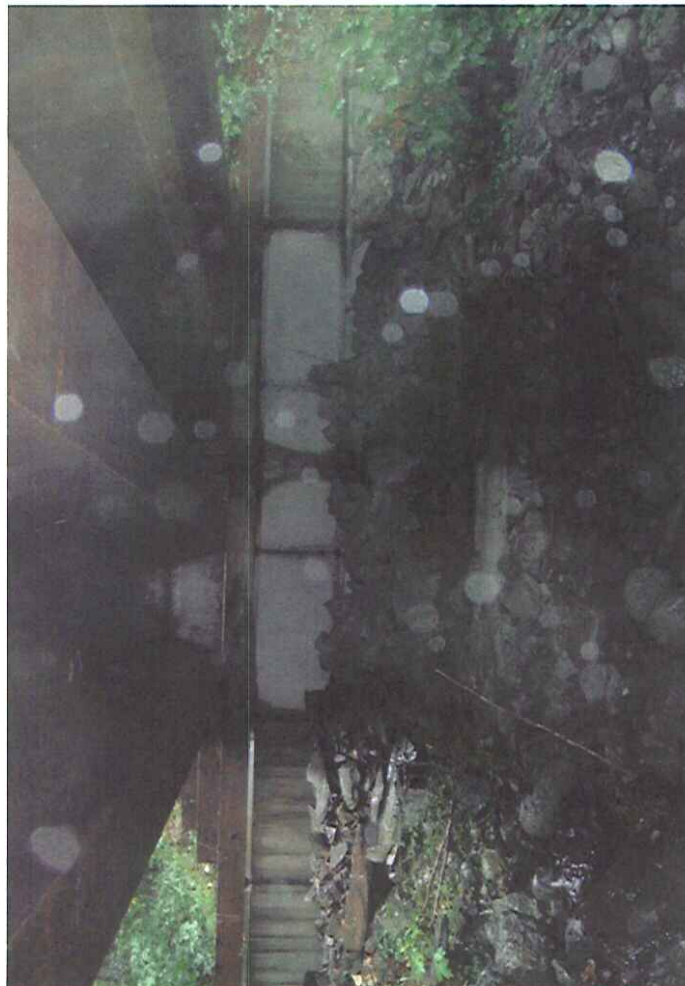
REVIEWED AND NOTED BY:

D. ROSE, P. Eng.

SIGNED:

Nov. 26, 2008







Map / Location

STEEL / CONCRETE / GLULAM

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2401

Nesahwath Lake

YEAR BUILT:

1.64

1 1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Chilliwack

6.4 c/c

BCTS

2127.16

Date of this Inspection: M: 10 Y: 2007 Date of Next Inspection: M: 10 Y: 2010 BRIDGE CLAS Permanent

Number of Spans 1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS	Remarks
DECK	Running Planks	6		Remarks
	Structural Decking	3	Shear connected concrete slabs (2) (CK-2401-a3), minor spalling at approaches	Remarks
	Concrete Deck	3		Remarks
	Gravel Surfacing	6		Remarks
	Ties	6		Remarks
	Nails	6		Remarks
	Curbs and Blocks	3	250mm x 250mm untreated fir.	Remarks
	Hand Rails	6		Remarks
	Deck to Girder Bolt	6		Remarks
	Hardware	3		Remarks
	Delineators	3	Delineators are non conforming, town side upstream delineator damaged.	Remarks
SUPER-STRUCTURE	Girders / Slabs	3	Shear connected concrete slabs (2)	Remarks
	Diaphragms	6		Remarks
	Bracing	6		Remarks
	Trussing	6		Remarks
	Hardware	3	Welded sheer connectors in fair condition.	Remarks
PIERS	Caps	6		
	Piles or Posts	6		
	Concrete	6		
	Bracing or Sheat	6		
	Cribs	6		
	Hardware	6		
	Riprap	6		
	Overall	6		
ABUTMENTS	Cribs	6		Remarks
	Tie-backs	6		Remarks
	Bin Walls	3	2 lock blocks at each abutment corner.	Remarks
	Caps or Sills	3		Remarks
	Piles or Posts	6		Remarks
	Concrete	3	Precast concrete ballast wall.	Remarks
	Bulkhead Planks	6		Remarks
	Wing Wall Planks	6		Remarks
	Bracing	6		Remarks
	Hardware	6		Remarks
	Fill	3		Remarks
	Riprap	3		Remarks
	Overall	3		Remarks
APPROACHES		3	Approaches are brushed in with moderate potholes.	Remarks

PRESENT WATER LEVEL (m):	0.05	PRESENT WATER CLEARANCE	1.20	ESTIMATED HIGH WATER LEVEL (m):	0.6	HAZARD(S) DESCRIPTION:
HAZARDS:						None

Repair Required?	Yes	Professional Inspection Required?	No	REPAIR DESCRIPTIONS AND COST ESTIMATE:		
				Install new delineators; grade and brush out approaches.		

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	12	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:		SUGGESTED REPLACEMENT DATE	
								at new load rating:	
								at original design load	

Comments:	NEW LOAD RATING tonnes:		NAD:		GPS				
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The overall condition of the structure is fair. Consider installing narrow structure ahead signs.

PRESENT RATING OF L75 OR 68 TONNES TO CONTINUE.

INSPECTOR

Mark Spence

DATE SIGNED: 02-Oct-07

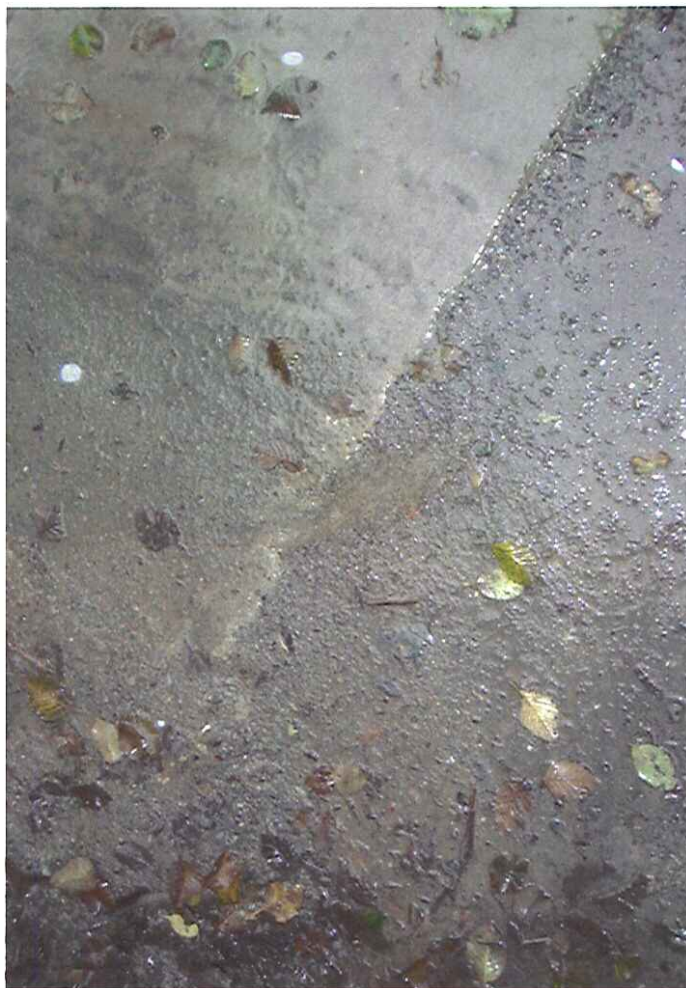
REVIEWED AND NOTED BY:

D. Foster, P. Eng.

SIGNED:

Nov 26 - 2008







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2409

Pitt- Bucklim

23.00

1

1

Crossing: District Span: SBFEP/FRM: Project Number:
 Bucklim Creek Chilliwack 7.0/ 12.0 c BCTS 8224

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class Semi Permanent Number of Spans: 2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT	CONDITION	REMARKS
DECK	Running Planks	5 100mm x 300mm untreated fir, multiple pockets of rot (CK-2409-a6) Remarks
	Ties	5 200mm x 200mm untreated fir ties, spaced 400mm c/c Remarks
	Nails	4 Nail heads protruding 5-10mm 250mm x 250mm untreated spruce curbs; town side Remarks
	Curbs and Blocks	3 Upstream: 800mm spruce curb log, 60mm sap rot. Downstream: 900mm spruce d Remarks
	Delineators	3 All present Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				90		Stringer Comments
	1				5										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Species	Sx	Sx	Sx	Sx	Sx										
Diameter mm															
Rot mm															

The overall condition of the stringers is poor; stringers 1,5 (numbered upstream to downstream) have extensive pocket rot; stringer 4 has

The overall condition of the stringers is poor; stringers 1,5 (numbered upstream to downstream) have extensive pocket rot; stringer 4 has

	CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS	4	No access to needle beams, shims are loose, <u>needle beams are not functioning.</u>
PIERS	Caps	6
	Piles or Posts	6
	Concrete	6
	Bracing or Sheat	6
	Cribs	3 3 log high cedar box crib with timber spacers, 800mm average facelog dimeter, 20
	Hardware	3 Lashing
	Riprap	3
	Overall	3
ABUTMENTS	Cribs	3 Town side: 3 log high cedar crib, 900mm average diameter face logs, 50m Remarks
	Tie-backs	3 Town/Bush side: 550mm average diameter tie-backs with a 200mm thick Remarks
	Caps or Sills	6 Remarks
	Piles or Posts	6 Remarks
	Concrete	6 Remarks
	Bulkhead Planks	6 Remarks
	Wing Wall Planks	6 Remarks
	Bracing	6 Remarks
	Hardware	3 Lashing. Remarks
	Fill	3 Retaining fill adequately. Remarks
	Riprap	3 Remarks
	Overall	3 Remarks
APPROACHES	4	Moderate potholes at approaches, heavily brushed in. Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	4.00	ESTIMATED HIGH WATER LEVEL (m):	2.5	HAZARD(S) DESCRIPTION:
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HAZARDS: None

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE: Consider replacing this structure.
Professional Inspection Required?	No	

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	12	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:
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SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

Based on the condition of the stringers the overall condition of this structure is poor.

Recommend bridge replacement; load rate for 5 tonnes.

Needle Beam not functioning, extensive rot.

INSPECTOR K. MacDonald DATE SIGNED: 17-Sep-07 NEW LOAD RATING tonnes:

REVIEWED AND NOTED BY: L. STEVANOVIC RN DATE SIGNED: 000 31 108

Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

Km: Page: Of:

CK-2409

Pitt- Bucklim

23.00

1

1

Crossing:

District

Span:

SBFEP/FRM:

Project Number:

Bucklim Creek

Chilliwack

7.0/ 12.0 c

BCTS

8224

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007

Inspection: Y: 2009

Bridge Class

Semi Permanent

Number of Spans:

2

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable)

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS
DECK	Running Planks		Remarks
	Ties		Remarks
	Nails		Remarks
	Curbs and Blocks		Remarks
	Delineators		Remarks

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				170		Stringer Comments	
	2				5										The overall condition of the stringers is poor; stringer 3 (numbered upstream to downstream) has extensive pocket rot and conk.	
		1	2	3	4	5	6	7	8	9	10	11	12	13		14
	Species	Sx	Sx	Sx	Sx	Sx										
	Diameter mm	870	1050	770	930	680										
	Rot mm	180	250	385	90	150										

NEEDLE BEAM(S) SHIMS		CONDITION	REMARKS
		4	No access to needle beams, shims are loose, needle beams are not functioning.
PIERS	Caps		
	Piles or Posts		
	Concrete		
	Bracing or Sheat		
	Cribs		
	Hardware		
	Riprap		
	Overall		
ABUTMENTS	Cribs		Remarks
	Tie-backs		Remarks
	Caps or Sills		Remarks
	Piles or Posts		Remarks
	Concrete		Remarks
	Bulkhead Planks		Remarks
	Wing Wall Planks		Remarks
	Bracing		Remarks
	Hardware		Remarks
	Fill		Remarks
	Riprap		Remarks
	Overall		Remarks
APPROACHES			Remarks

PRESENT WATER LEVEL (m):	1.00	PRESENT WATER CLEARANCE	4.00	ESTIMATED HIGH WATER LEVEL (m):	2.5
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HAZARD(S) DESCRIPTION:

HAZARDS: None

Repair Required?	Yes
Professional Inspection Required?	No

REPAIR DESCRIPTIONS AND COST ESTIMATE:

Consider replacing this structure.

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	12	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	
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SUGGESTED REPLACEMENT: at new load rating: at original design load

Comments: NAD: GPS

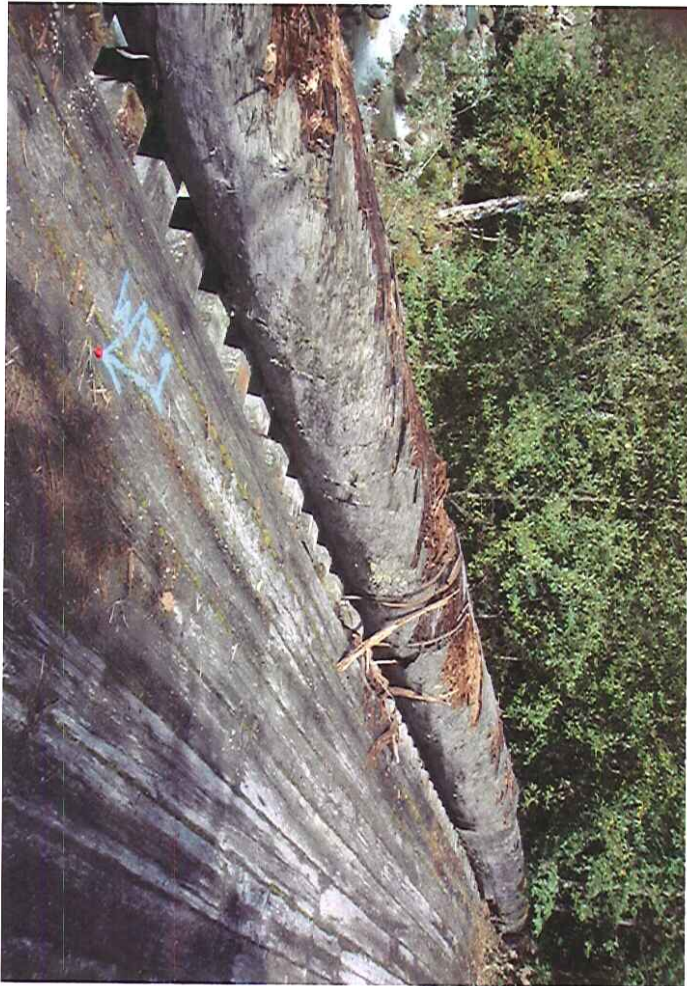
Based on the condition of the stringers the overall condition of this structure is poor.

Assuming Span = 12m, Needle Beam not functioning - Recommend Bridge Replacement. Load rate for 5 tonne.

INSPECTOR K. MacDonald DATE SIGNED: 17-Sep-07 NEW LOAD RATING tonnes: RN DATE SIGNED:







Map / Location

LOG / TIMBER STRINGER BRIDGE

Bridge Picture

Structure Number: Forest Service Road:

CK-2416

Squeah

Km: Page: Of:

13.00

1

1

Crossing:

Kleikum Creek

District

Chilliwack

Span:

1.1 c/c

SBFEP/FRM:

BCTS

Project Number:

6092.01

Date of this M: 09 Date of Next M: 09 YEAR BUILT:

Inspection: Y: 2007 Inspection: Y: 2009 Bridge Class

Permanent

Number of Spans:

1

NOTE: a) Spans, abutments and piers are numbered from the left bank, facing downstream; piles, posts, curbs and stringers are numbered from upstream of bridge. b) Use a separate sheet to sketch and detail problem area and/or materials required for repairs. c) CONDITION: 1 - Very Good (new); 2 - Good; 3 - Fair; 4 - Poor; 5 - Very Poor; 6 - N/A (not applicable).

Stream Classification:

BRIDGE ELEMENT		CONDITION	REMARKS
DECK	Running Planks	6	Gravel surfacing 800mm thick.
	Ties	6	
	Nails	6	
	Curbs and Blocks	6	
	Delineators	6	

STRINGERS	Span Number:				Number of Stringers:				Average Stringer Rot Depth For Wood Culvert (mm):				20		Stringer Comments
	1				18 est.										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	No access to interior stringers. Exterior stringers not representative of interior stringers.

		CONDITION	REMARKS
NEEDLE BEAM(S) SHIMS		6	
PIERS	Caps	6	
	Piles or Posts	6	
	Concrete	6	
	Bracing or Sheat	6	
	Cribs	6	
	Hardware	6	
	Riprap	6	
	Overall	6	
ABUTMENTS	Cribs	6	
	Tie-backs	6	
	Caps or Sills	4	900mm fir log sills, 110mm shell remaining.
	Piles or Posts	6	
	Concrete	6	
	Bulkhead Planks	6	
	Wing Wall Planks	6	
	Bracing	6	
	Hardware	6	
	Fill	3	
	Riprap	6	No rip rap present.
	Overall	3	
APPROACHES		3	Located on a wide horizontal curve.

PRESENT WATER LEVEL (m):	0.00	PRESENT WATER CLEARANCE	0.80	ESTIMATED HIGH WATER LEVEL (m):	0.5	HAZARD(S) DESCRIPTION:
HAZARDS:						None

Repair Required?	Yes	REPAIR DESCRIPTIONS AND COST ESTIMATE:
Professional Inspection Required?	No	

AS_BUILT CHECKED?	No	NUMBER OF PICTURES TAKEN:	4	NARROW STRUCTURE SIGNS?	No	PRESENT POSTED RATING tonnes:	
SUGGESTED REPLACEMENT:		at new load rating:		at original design load			
Comments:		NAD:		GPS:			

Based on the condition of the sill logs the overall condition of this structure is poor.

New Rating is 5 tonnes. Recommend replacement.

INSPECTOR K. MacDonald DATE SIGNED: 26-Sep-07 NEW LOAD RATING tonnes: 5

REVIEWED AND NOTED BY: D. F. B. E. K. P. E. N. Y.

RN DATE SIGNED: Nov. 26-2008

