

CK-2139
CK-2139A

STS'AILES (WEST) 42km

2022 Inspection

CBR iPad Offline Ver 0.36



CBR Data

Latitude 49°35'29.79" Longitude -121°55'49.1"

Site Status Active

Insp. Status Inspect

Crossing Name Kirkland Creek

FSR # 6314 Branch # 1

Road Name STS'AILES (WEST)

User km 42

Previous Load Rating (tonnes) 136

Structure Class Permanent Bridge

Portable N

Superstructure Steel I-beam

Deck Type Concrete Composite

Abutment Left Steel Pipe and Precast Pad

Abutment Right Concrete Cast in Place

Spans 1

Total Length (m) 27.4

Deck Width (m) 4.9

Updated Data

Latitude 49°35'29.82" Longitude -121°55'48.78"

HD Diff. (m) 6.4 Accuracy (m) 5

L150 or 136 tonnes

Inspection

Date of Inspection 2022-08-31 9:20:15 AM

Inspector Name Cameron VandenBrink, EIT

Recommended Next Inspection 2025
Year

Inspection Company Chartwell Resource Group Ltd

Inspector Comments Serial/ID Plate

P.Eng Comments

The current load rating of L150 or 136 tonnes to continue.



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Approach

Alignment Fair

HC and vc on town approach

Bridge Ahead Signs
Missing

☒ 0 ☐ 1 ☐ 2

Brushing Required N

Delineator Missing
Left

☒ 0 ☐ 1 ☐ 2

Delineator Missing
Right

☒ 0 ☐ 1 ☐ 2

Fender Condition Good

Posted Load Rating

136090

Road Surface Good

Abutment

Log/Timber Cribs

Tie Backs

Bin Wall

Pier

Concrete

Caps or Sills

Piles or Posts Good

Ballast Wall Good

Wing Wall

Bracing Good

Hardware Good

Fill Good

Riprap Good

Town side bedrock, woods set far back. Only contacted in high flows

Bearings Good

Corrosion Protection Fair

Some wear

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Deck

Running Surface

Running Planks

Sub Deck

Ties

Nails

Deck to Girder Bolts

Concrete Deck Fair Ice pick damage from tracked machines

Grout Pockets Good

Deck Joints Good

Steel Deck Plate

Gravel Surface

Curb Rail/Blocks/Posts Good

Hand Rails/Walkouts

Hardware Good

Overall Deck Condition Good

Gravel Depth (mm)

Pier Deck

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Steel/Concrete

Girders Good

Diaphragms Good 4 bolted bays

Bracing Good Bolted

Under Trussing

Hardware Good

Welded/grouted
shear connectors

Log

Log Curbs

Needle Beam

Needle Lashing/
Shimming

Needle Beam to Crib (m)

Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment
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Hazards

Estimated Present Water Level Depth (m) .5

High Water ☐

Debris ☐

Estimated Present Water Level Width (m) 3

Aggradation ☐

Scour ☐

Estimated High Water Level Clearance 3

Ic ☐

Comments

Repairs and Monitoring

Repair Item	Repair Description
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1

2

3

4

5

6

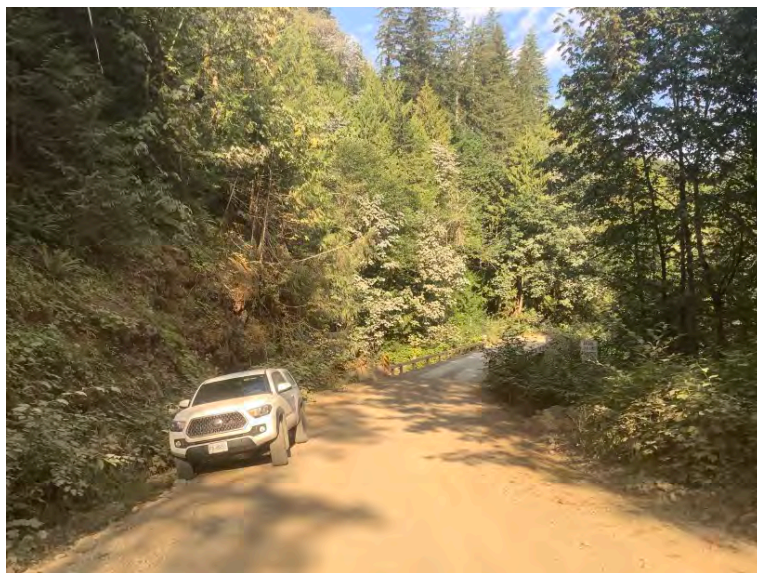
7

Item	Monitor Description	Frequency
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1

2

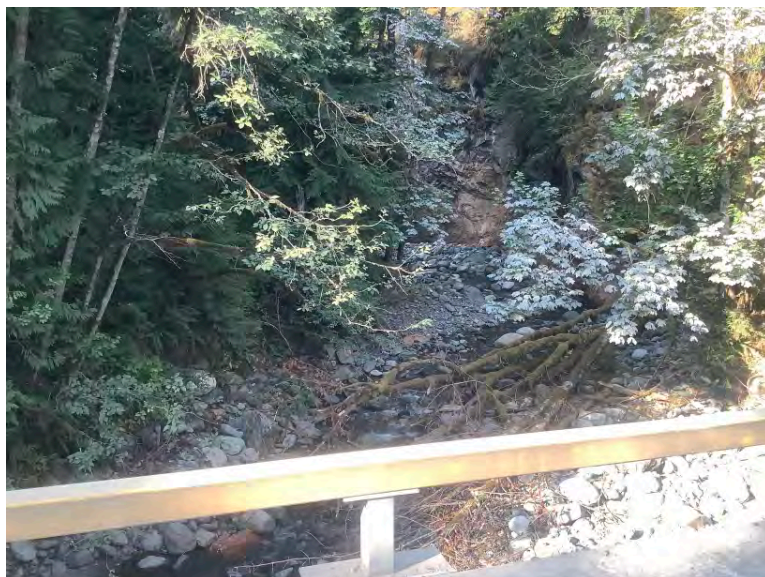
3



Approach from Right Bank when facing downstream



Load Rating Sign



Upstream from Crossing



Downstream from Crossing



Approach from bridge deck of Right bank approach when facing downstream



Approach from bridge deck of Left bank approach when facing downstream



Approach from Left Bank when facing downstream



Downstream Profile



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Right Bank Abutment when facing downstream



Structure ID



Bearing



Left Bank Abutment when facing downstream



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Upstream Profile



Deck

December 6, 2022

Attn: Tyson Miller, P.Eng., RPF
Area Engineer
Ministry of Forests
46360 Airport Road
Chilliwack, BC V2P 1A5

Re: EN23NAN900 District of Chilliwack Bridge Inspection Reports

Chartwell Resource Group Ltd. (CRGL) was retained by the Ministry of Forests (MOF) to carry out Routine Inspections and prepare inspection reports for 120 engineered structures throughout the Chilliwack Natural Resource District (DCK). Of the 120 structures, 1 structure was inaccessible at the time of inspection and was omitted with approval from the MOF. Multiple structures were inspected from the air as the roads have not been accessible for multiple years, resulting in no safe landing spot for the helicopter. The remaining sites were either accessed on foot, by truck, ATV or helicopter.

All bridge inspections and bridge inspection reports within the DCK were completed by Cameron VandenBrink, EIT under the direct supervision of Lindsey McGill, P.Eng./ RPF. Since completing the inspections, Cameron VandenBrink has received his P.Eng. designation. Structure CK-2269 was the only structure within the DCK not inspected by Cameron VandenBrink, it was inspected by Weillas Ng, P.Eng./ RPF, also part of the engineering team at CRGL.

Our routine inspections assessed the general condition of all readily accessible components for each structure. Where deficiencies were identified, recommendations for repairs and upgrades were provided and have been included with each inspection report. Photographs were taken in accordance with contract specifications and have been included with each inspection report. Previous inspection reports that were available on the Corporate Bridge Register were referenced to track the status of previous monitoring and repair items.

This letter applies to the structures in the appended list below. The bridge inspection reports for the bridges have been compiled with attached photographs and have been submitted to the Ministry on an external flash drive as per contract requirements. We trust that this letter and the accompanying documents fulfill the intent of the contract. Please reach out to CRGL with any questions and concerns regarding the completed work.

Prepared by:



DEC 06 2022

Cameron VandenBrink, PEng
Field Engineer
cvandenbrink@crgl.ca

EGBC Permit to Practice:
#1001334

Reviewed by:



Lindsey McGill, PEng, RPF
Partner / Engineer
lmcgill@crgl.ca



Site	Road Name	Project File ID #	Branch	UserKM	Structure Type	Latitude	Longitude
CK-2002	AMERICAN	8123	1	4.6	P	49.427167	-121.48075
CK-2005	ANDERSON	8074	1	2.7	MC	49.691778	-121.396833
CK-2007	ANDERSON 13000	8074	7	0.1	T	49.726528	-121.364556
CK-2120A	BEAR	5748	3	7	T	49.45575	-121.70475
CK-2121A	BEAR	5748	3	7.4	T	49.453	-121.702194
CK-2126	BEAR 7500	5748	7	0.1	T	49.452833	-121.702389
CK-2073	BENCH	5127	10	1.5	P	49.108889	-121.646
CK-2075	BENCH	5127	10	2.1	P	49.111278	-121.63175
CK-2011	BLUE MOUNTAIN 300	5913	2	0.1	T	49.236944	-122.462111
CK-2012	BLUE MOUNTAIN 300	5913	2	0.8	P	49.236	-122.468778
CK-2226	BOISE	8394	2	0.3	P	49.577083	-122.642889
CK-2228	BOISE	8394	2	3.2	T	49.598889	-122.652528
CK-2230	BOISE	8394	2	7.6	P	49.620944	-122.696472
CK-2232	BUCKLIN	8394	3	3	T	49.706611	-122.720278
CK-2019	CAYOOSE	8110	1	0.1	T	49.204583	-120.99975
CK-2074	CHIPMUNK	5127	12	8.3	T	49.14025	-121.695528
CK-2512	CLEAR	5748	5	14.7	MC	49.706278	-121.725556
CK-2348	COGBURN	5748	2	4.8	P	49.555778	-121.727333
CK-2118A	COGBURN	5748	2	8	T	49.560833	-121.690694
CK-2547	EIGHT MILE	8144	1		T	49.34325	-121.261694
CK-2211	EMORY	8147	1	2.8	MC	49.511611	-121.43975
CK-2496	ENGLISH	5748	29	2	T	49.661528	-121.868667
CK-2497	ENGLISH	5748	29	2.6	T	49.656417	-121.866361
CK-2099	FLORENCE LAKE	8648	1	13.8	P	49.322694	-122.337778
CK-2317	FOLEY	5127	13	11.7	P	49.154083	-121.538278
CK-2316	FOLEY	5127	13	12.7	P	49.162278	-121.536028
CK-2466	GARNET	7558	1	7.6	P	49.410306	-121.592083
CK-2555	GARNET 7600	7558	3	0.4	P	49.410528	-121.595583
CK-2556	GARNET 7600	7558	3	0.6	P	49.410528	-121.595583
CK-2479	GRIZZLY	6996	16	2.1	T	49.938444	-121.906611
CK-2539	HARRISON EAST	5748	1	20	P	49.509167	-121.767778
CK-2108	HARRISON EAST	5748	1	30.7	P	49.575056	-121.816778
CK-2109	HARRISON EAST	5748	1	35.3	P	49.604306	-121.822667
CK-2110	HARRISON EAST	5748	1	38.5	P	49.639194	-121.836861
CK-2531	HARRISON EAST	5748	1	48.2	MC	49.715139	-121.851167
CK-2122	HARRISON EAST	5748	1	57.6	P	49.78225	-121.862806
CK-2124	HARRISON EAST	5748	1	60.5	P	49.786417	-121.827083
CK-2123	HARRISON EAST	5748	1	7.6	P	49.809556	-121.778694
CK-2125	HARRISON EAST	5748	1	71	MC	49.832389	-121.758167
CK-2459	HORNET	5748	19	0.4	T	49.604444	-121.819167
CK-2462	HORNET	5748	19	2.8	T	49.62175	-121.801778
CK-2158	HUNTER	6086	1	4.9	P	49.328417	-121.544361
CK-2053	LIUMCHEN	5127	2	0.2	P	49.070611	-121.840917
CK-2054	LIUMCHEN	5127	2	0.9	P	49.073222	-121.847806
CK-2055	LIUMCHEN	5127	2	2.5	P	49.075639	-121.868944
CK-2061	LIUMCHEN EAST	5127	4	4.2	P	49.071306	-121.919972
CK-2329	LOST 7300	8466	4	1.1	MC	49.34125	-122.233
CK-2163	LOST CREEK	8466	1	1.1	P	49.288028	-122.228667
CK-2520	LOST CREEK	8466	1		MC	49.292667	-122.229139
CK-2165	LOST CREEK	8466	1	2.2	P	49.296917	-122.233
CK-2166	LOST CREEK	8466	1	5	P	49.315944	-122.248861
CK-2168	LOST CREEK	8466	1	8.6	P	49.341444	-122.240611
CK-2169	LOST CREEK	8466	1	14.6	P	49.381028	-122.222972
CK-2170	LOST CREEK	8466	1	17.1	P	49.39675	-122.230111

CK-2172	LOST CREEK	8466	1	18.8	T	49.394417	-122.24175
CK-2173	LOST CREEK	8466	1	18.9	T	49.400278	-122.2415
CK-2472	MAISAL	8241	16	11.5	T	49.419889	-121.965917
CK-2320	NAHATLATCH	6996	1	19.1	MC	50.003194	-121.731444
CK-2477	NAHATLATCH	6996	1	39.8	T	49.935833	-121.933419
CK-2474	NAHATLATCH	6996	1	46	P	49.906972	-121.992722
CK-2475	NAHATLATCH	6996	1	46.5	T	49.90475	-121.995833
CK-2448	NORRISH	10326	1	1.8	P	49.196722	-122.159972
CK-2449	NORRISH	10326	1	3.6	MC	49.208167	-122.153361
CK-2452	NORRISH	10326	1	7.1	T	49.232917	-122.135889
CK-2453	NORRISH	10326	1	7.4	T	49.235861	-122.132417
CK-2537	NORRISH 17000	10326	2	1.8	P	49.291972	-122.10275
CK-2218	PITT RIVER	8394	1	8	P	49.606028	-122.632944
CK-2219	PITT RIVER	8394	1	9.8	P	49.619611	-122.644583
CK-2222	PITT RIVER	8394	1	18.2	T	49.679472	-122.685111
CK-2406	PITT RIVER	8394	1	18.5	T	49.679444	-122.685139
CK-2224	PITT RIVER	8394	1	23	T	49.71125	-122.706889
CK-2225	PITT RIVER	8394	1	24.6	T	49.710722	-122.713806
CK-2551	PURCELL	11024	1	3.1	T	49.749611	-122.097972
CK-2552	PURCELL	11024	1	7.2	T	49.752667	-122.101639
CK-2102	ROCKY POINT	8648	2	0.2	P	49.311694	-122.322528
CK-2487	STS'AILES (WEST)	6314	1	7.9	P	49.375833	-121.841083
CK-2130	STS'AILES (WEST)	6314	1	12.8	MC	49.408306	-121.848278
CK-2528	MOLLY HOGAN POINT	6314	12	0.1	P	49.538167	-121.889694
CK-2139	STS'AILES (WEST)	6314	1	42	P	49.591611	-121.930306
CK-2140	STS'AILES (WEST)	6314	1	46.5	P	49.609639	-121.957194
CK-2147	STS'AILES (WEST)	6314	1	66	P	49.689889	-122.123083
CK-2239	SOWERBY	8112	1	6.5	P	49.282	-121.467417
CK-2240	SPUZZUM	8128	1	5	P	49.674833	-121.471306
CK-2363	SPUZZUM	8128	1	25.2	P	49.738583	-121.688583
CK-2241	SPUZZUM	8128	1	25.4	P	49.737722	-121.689667
CK-2249	SPUZZUM 16000	8128	7	5.4	T	49.686889	-121.639528
CK-2250	SPUZZUM 16000	8128	7	5.9	T	49.683722	-121.642139
CK-2252	SPUZZUM 17000	8128	10	4	T	49.701417	-121.638944
CK-2369	SPUZZUM 24000	8128	21	2.3	P	49.736	-121.659806
CK-2506	STATLU 1800	8241	18	0.2	P	49.344722	-122.047917
CK-2035	STATLU 7300	8241	3	0.1	P	49.369611	-122.11
CK-2334	STAVE	8013	1	3.7	MC	49.455944	-122.21775
CK-2338	STAVE	8013	1	12.2	MC	49.497444	-122.259861
CK-2264	STAVE	8013	1	11.9	T	49.503722	-122.264444
CK-2265	STAVE	8013	1	12	T	49.504417	-122.266056
CK-2339	STAVE	8013	1	12.4	MC	49.506278	-122.270778
CK-2266	STAVE	8013	1	15.8	T	49.531	-122.277861
CK-2267	STAVE	8013	1	17.8	T	49.543861	-122.295111
CK-2367	STAVE	8013	1	17.8	MC	49.544028	-122.295528
CK-2269	STAVE	8013	1	20.3	T	49.554694	-122.321944
CK-2271	STAVE	8013	1	24.6	P	49.572361	-122.367306
CK-2343	STAVE	8013	1	26.4	MC	49.573833	-122.385972
CK-2273	STAVE	8013	1	29	MC	49.589694	-122.399833
CK-2274	STAVE	8013	1	29.4	T	49.593639	-122.401694
CK-2440	STAVE	8013	1	29.9	P	49.596028	-122.405444
CK-2554	STAVE	8013	1		T	49.59525	-122.403944
CK-2275	STAVE	8013	1	30.9	MC	49.603167	-122.410389
CK-2233	STEVE	8394	4	0.7	P	49.686639	-122.715722
CK-2330	TEREPOCKI	8466	11	1.3	P	49.40325	-122.216556

CK-2189	TEREPOCKI	8466	11	2	P	49.404806	-122.208556
CK-2190	TEREPOCKI	8466	11	2.2	P	49.405111	-122.206306
CK-2285	TSILEUH	7978	1	12.1	P	49.74675	-121.465139
CK-2286	TSILEUH	7978	1	17.7	T	49.752472	-121.513194
CK-2243	URQUHART	8128	2	6.6	T	49.655222	-121.617639
CK-2244	URQUHART	8128	2	11.5	T	49.647028	-121.674722
CK-2247	URQUHART 2800	8128	6	0.4	T	49.666389	-121.579194
CK-2246	URQUHART 2800A	8128	4	0.2	P	49.669194	-121.572861
CK-2507	WINSLOW	8013	2	5.4	T	49.512861	-122.187889
CK-2508	WINSLOW	8013	2		T	49.534111	-122.171639