Sea-to-Sky District | 2021 Bridge Inspection Review and Load Rating Summary

Issued: November 30, 2021

Checked by: G. Dohm

Checked date: Nov. 15, 2021

Site #	Road Name	Project	Branch #	Station (km)	Creek Name	Old load rating (Tonnes)	New load rating (Tonnes)	Reviewing Engineer	Notes	RESPONSIBILITY (OPS or BCTS)
SQ-3142	MILLER BENCH	9717	1	1.1	Trib to Ryan River	63	63	Greg Dohm, PEng	2 Curb risers needing replacement as are cracked and rotting .	OPS
SQ-3004	STAWAMUS-INDIAN MAIN	4823	1	12.1	Indian River	68	68	Greg Dohm, PEng		OPS
SQ-3020	HAYLMORE CREEK MAIN	5694	1	13.1	Haymore Tributary	0	0	Greg Dohm, PEng	not inspected due to inaccessibility	OPS
SQ-3021	HAYLMORE CREEK MAIN	5694	1	16.2	Common Johnny Creek	0	0	Greg Dohm, PEng	Bridge closed	BCTS
SQ-3024	SWIFT CREEK	8202	1	1	Swift Creek	91	91	Greg Dohm, PEng		BCTS
SQ-3025	BIRKENHEAD MAIN	5733	1	7.5	Talifer Creek	62	62	Greg Dohm, PEng		OPS
SQ-3028	BIRKENHEAD LOWERWEST	5733	3	0.5	Birkenhead River	62	62	Greg Dohm, PEng		BCTS
SQ-3030	CALLAGHAN	6102	1	4.2	Tributary to the Callaghan	136	136	Greg Dohm, PEng		OPS
SQ-3031	CALLAGHAN	6102	1	5.9	Tributary to Callaghan	136	136	Greg Dohm, PEng	Missing deck bolt, plate and spacer on upstream girder . Deck joints need to be sealed .	OPS
SQ-3032	CALLAGHAN	6102	1	8.2	Madley Creek	136	136	Greg Dohm, PEng	Precast no posts to be reinstalled on town side .	OPS
SQ-3038	LILLOOET RIVER	6123	1	1.4	Lillooet River	68	68	Greg Dohm, PEng	Load rating posted is 54 tonnes however bridge is likely L75. Check file. . Some cracking and spalling. Will need repair at some point. .	OPS
SQ-3043	LILLOOET RIVER	6123	1	8.7	Railroad Creek	54	54	Greg Dohm, PEng		OPS
SQ-3044	LILLOOET RIVER	6123	1	10.4	Sampson Creek	68	68	Greg Dohm, PEng		OPS
SQ-3046	LILLOOET RIVER	6123	1	19	North Creek	68	68	Greg Dohm, PEng		OPS
SQ-3049	LILLOOET RIVER	6123	1	38.8	Pebble Creek	68	68	Greg Dohm, PEng		OPS
SQ-3052	BROHM RIDGE	6527	1	0.1	Brohm Creek	54	54	Greg Dohm, PEng	Woods abutment timber sill is crushed however still functioning allowing current load rating to continue. Plan to replace bridge or upgrade bearings. To reuse the existing twin rail car superstructure it may be possible replace the timber sills with an engineered steel bearing beam or precast bearing beam with steel bearing plate set on grout bed on the existing lock blocks.	OPS
SQ-3055	BROHM CREEK	6527	2	3.3	Brohm Creek Trib.	68		Greg Dohm, PEng	Rail car - not inspected	BCTS
SQ-3056	IN-SHUCK-CH	7343	1	0.3	Joffre Creek	63	63	Greg Dohm, PEng		OPS
SQ-3060	IN-SHUCK-CH	7343	1	15.6	Lizzie Creek North	63	63	Greg Dohm, PEng		OPS
SQ-3066	IN-SHUCK-CH	7343	1	55.8	Livingston Creek	63	63	Greg Dohm, PEng		OPS
SQ-3077	SHOWH LAKES	7910	3	5.8	Sixteen Mile Creek	68	68	Greg Dohm, PEng	Slab joints should be sealed . Fill and grade pot holes .	OPS
SQ-3081	ROGERS CR	7976	1	9	Trib to Rogers Creek	68	68	Greg Dohm, PEng		OPS
SQ-3083	LILLOOET SOUTH	7977	1	3.5	Unnamed Creek	63	20	Greg Dohm, PEng	Downrate bridge load rating to 20 tonne GVW. Conk on cross ties. Drilled and lots of rot found.	OPS
SQ-3084	LILLOOET SOUTH	7977	1	8.8	South Creek	54	54	Greg Dohm, PEng	Groute joints in slabe are Fair to poor. - appear to still be functional but plan chip on and reinstall grout.	OPS
SQ-3090	GREEN RIVER	7979	1	0.9	Green River	68	68	Greg Dohm, PEng		OPS
SQ-3091	GREEN RIVER	7979	1	5.8	Gravel Creek	63	63	Greg Dohm, PEng	Damage to guardrails. Remaining section showing signs of rot. Replace all. Riprap very steep and unsupported at base, but quite large. Monitor for further movement. . Repair damaged section of rail. Consider replacing all rails.. Riprap for further movement.	OPS
SQ-3105	PHYLIS CREEK	8210	2	0	Phylis Creek #1 -- ON ROAD PERMIT ROAD	0	0	Greg Dohm, PEng	Close bridge. Load rating changed to zero tonnes until deck upgraded to ministry standard of tie and plank decking. . Substandard deck and reason for closing the bridge .	OPS

SQ-3109	PHELIX CREEK	8354	2	3.2	Phelix Creek	0	68	Greg Dohm, PEng	Guard Rail - need to replace with continuous riser due to poor quality tie riser connection 4.8 x 0.25 x 0.25 see photos . Wear plank protruding up needs spiking down .	BCTS
SQ-3116	LILLOOET WEST	8407	1	21.3	Trib to Lillooet River	150	150	Greg Dohm, PEng	Bridge on active channel and rock fall zone at right approach. Add approach barriers and signage.. Add delineators . Install approach barriers.	OPS
SQ-3119	LILLOOET WEST	8407	1	36.3	Chief Paul Creek	63	63	Greg Dohm, PEng	Replace guard rails. Replace all timber rail components .	OPS
SQ-3123	RING CREEK SOUTH	9244	1	0.5	Pedestrian Bridge - Ring Creek	pedestrian	pedestrian	Greg Dohm, PEng	Deck Grating torn at one location and twisted stringer. Currently adequately supported by 3x8 transverse planks .	OPS
SQ-3130	MAMQUAM	9283	1	3	Stawamus River	136	136	Greg Dohm, PEng	Ministry plan to do close proximity inspection to quantify extent of corrosion and upgrade or replacement options that may be necessary.	OPS
SQ-3135	MAMQUAM	9283	1	18.9	Martin Creek	63	63	Greg Dohm, PEng	Curb logs on bridge need to be modified so they provide a min. 250mm height above road grade.	OPS
SQ-3140	DAISY LAKE	9281	1	0.5	Pedestrian Bridge - Callaghan Creek	pedestrian	pedestrian	Greg Dohm, PEng	Ties and vertical deck cables and deck planks .	OPS
SQ-3157	SQUAMISH RIVER	9160	1	21.1	Mud Creek	150	150	Greg Dohm, PEng	Road maintainer on site about to repair recent downstream fill washout . Sediment buildup .	OPS
SQ-3159	SQUAMISH RIVER	9160	1	25.1	Terminal Creek	91	91	Greg Dohm, PEng	Road maintained just removed downstream sediment and smooth walled steel culvert at approximately 15% slope drained all sediment. Sediment removal downstream of culvert is required on a regular basis. .	OPS
SQ-3161	ASHLU RIVER	9160	2	2.1	Side Creek	91	91	Greg Dohm, PEng	Add riprap on downstream woods side prevent further riprap erosion.	OPS
SQ-3163	ASHLU RIVER	9160	2	6.9	Ashlu Creek #5	0	0	Greg Dohm, PEng	Bridge closed. Structure to be removed.	OPS
SQ-3165	KAKILA CREEK	8407	2	60.4	Kakila South Creek	62		Greg Dohm, PEng	WBC - not inspected	OPS
SQ-3172	LILLOOET WEST	8407	1	0.6	Camp Creek	136	136	Greg Dohm, PEng		OPS
SQ-3177	LILLOOET RIVER	6123	1	44.5	Truckwash Creek	91	91	Greg Dohm, PEng	Curb rails getting old, plan to replace over next few years with HSS steel guard rails CL3 rating ideally	OPS
SQ-3191	MASHITER 02	8035	2	0.7	Mashiter creek	68	68	Greg Dohm, PEng	Guard rails replaced subsequent to inspection. See photos.	BCTS
SQ-3204	SLOQUET CREEK MAIN	6780	1	16.4	Sloquet Tributary	68	68	Greg Dohm, PEng	Replace guard rails.	BCTS
SQ-3205	SLOQUET CREEK MAIN	6780	1	12	Tributary to Sloquet	68	68	Greg Dohm, PEng	Replace guard rails.	BCTS
SQ-3207	SOO RIVER	7910	1	8.1	Soo River Tributary	68	68	Greg Dohm, PEng		OPS
SQ-3208	SOO RIVER	7910	1	10.1	Soo River Tributary	68	68	Greg Dohm, PEng	Lock blocks without pad footings. Riprap missing on woods side. Needs to be added to prevent undermining. . Lock blocks without pad footings. Riprap missing on woods as well as town side. Needs to be added/repaired to prevent undermining. .	OPS
SQ-3209	SOO RIVER	7910	1	14.4	Soo River Tributary.	68	68	Greg Dohm, PEng		OPS
SQ-3214	SOUTH SLOQUET	6780	5	3.3	Bear Claw	62	62	Greg Dohm, PEng	Stringers measured from upstream. Assumed fd. Fair condition all, minimal surface rot, no heart rot..	BCTS
SQ-3215	SOUTH SLOQUET	6780	5	4.5	Carley Creek	91	91	Greg Dohm, PEng	3 x 1200mm 1/2” thick smooth wall steel pipe culverts - recent construction. Consider adding approach barriers and signage.	BCTS
SQ-3218	SOUTH SLOQUET	6780	5	9.9	unknown	91	91	Greg Dohm, PEng	Add approach barriers to right approach. Delineators and bridge ahead.	BCTS
SQ-3225	IN-SHUCK-CH	7343	1	25.7	Tributary to Lillooet Lake	136	136	Greg Dohm, PEng		OPS
SQ-3238	MILLER BENCH	9717	1	3.2	Trib to Ryan River	63	63	Greg Dohm, PEng		OPS
SQ-3249	SL1100	6780	4	0.2	Trib to Sloquet	63	63	Greg Dohm, PEng	Conk showing on log stringers. Plan to replace bridge soon. Curb logs extremely low and approach logs undersized.. Raise curb logs. Raise approach barriers. Stringer 6 for rot.	BCTS