

Appendix B-4

Major River Table

G7G _ MAJOR RIVER INFORMATION

2013-10-07_G7G - MAJOR RIVER_SEGMENT 1-5

Gauging Station to Track Alignment

SEGMENT	NO	STATION (PK)	CATCHMENT AREA (km²)	RIVER	WATERCOURSES																COMMENTS	REFERENCE		
					WIDTH OF RIVER ALONG TRACK		PERPENDICULAR WIDTH OF RIVER		NORMAL FLOW				MAXIMUM FLOW (1/100)				PROPOSED ELEVATION HYDRAULIC (m)	TRACK ELEVATION (m)	FP	FLOW RATE(M3/S)				
					NORMAL (m)	MAXIMUM (m)	NORMAL (m)	MAXIMUM (m)	DISCHARGE (m³/s)	ELEVATION (m)	DEPTH (m)	VELOCITY (m/s)	DISCHARGE (m³/s)	ELEVATION (m)	DEPTH (m)	VELOCITY (m/s)				25-year			50-year	100-year
1	1	1056+737	1121	DUNKIRK RIVER	20	25	18	22	11.8	516.20	1.1	0.6	27	518.00	1.8	0.7	522.1	522.20	2.31			27		
	2	1077+884	604	CHIPEWYAN RIVER	35	51	30	42	10.8	512.10	0.6	0.6	25	512.30	0.8	0.7	516.4	515.24	2.28			25	Proposed Profile to be raised 1.98m	
	3	1125+136	1538	LIEGE RIVER	37	52	35	45	12.6	500.60	0.6	0.6	30	500.90	0.9	0.7	505.0	502.04	2.34			30	Proposed Profile to be raised 3.05m	
	4	1197+653	1228	PANNY RIVER	36	113	26	42	12.0	509.90	0.9	0.5	28	510.10	1.1	0.6	514.2	511.30	2.32			28	Proposed Profile to be raised 2.99m	
	5	1243+942	3660	MIKKWA RIVER	55	62	52	60	16.9	380.50	0.5	0.6	42	381.00	1.0	0.7	385.1	391.14	2.50			42		
	6	1284+626	3660	MIKKWA RIVER	75	83	65	75	16.9	310.40	0.4	0.6	42	310.80	0.8	0.7	314.9	312.93	2.50			42	Proposed Profile to be raised 2.16m	
	7	1311+488	35800	WABASCA RIVER	146	150	115	120	81.2	294.92	1.4	0.5	489	300.32	6.8	0.6	304.4	317.69	6.02			489	http://www.wsc.ec.gc.ca/applications/H2O/graph-	
2	8	2005+810	2259	BEAR RIVER	35	36	20	21	14.1	243.8	0.9	0.8	34	244.7	1.8	0.9	248.8	250.65	2.40			34	Alignment to relocate between 2005+644 & 2005+844 to avoid multiple crossings	
	9	2031+274	306000	PEACE RIVER	435	602	409	582	1440.0	252.3	2.3	1.5	12 640	259.5	9.5	2.3	263.6	270.00	8.78			12640	http://environment.alberta.ca/01674.html	
	10	2036+262	968	CARIBOU RIVER	15	23	12	21	11.5	271.2	1.2	0.8	26	271.4	1.4	0.9	275.5	280.00	2.30			26		
	11	2066+169	1697	PONTON RIVER	36	51	34	43	13.0	330.8	0.8	0.5	31	331.0	1.0	0.7	335.1	341.15	2.36			31	Alignment to relocate between 2066+454 & 2066+651 to avoid multiple crossings	
	12	2103+164	871	BUSHE RIVER	11	17	9	15	11.3	338.8	1.4	0.9	26	339.1	1.7	1.0	343.2	339.15	2.30			26	Proposed profile to be raised 4.14m. Alignment to relocate between 2103+160 & 2103+493 to avoid multiple crossings	
	13	2114+128	235	FOOTNER LAKE	85	90	40	45	10.0	430.4	0.4	0.6	23	430.7	0.7	0.7	434.8	433.80	2.25			23		
	14	2182+794	10493	CHINCHAGA RIVER	110	118	93	107	134.3	351.8	1.8	0.8	413	352.8	2.8	1.4	356.9	360.47	3.08			413		
	15	2193+840	923	SOUSA CREEK RIVER	30	40	15	25	11.4	346.3	1.3	0.6	26	346.5	1.5	0.7	350.6	350.00	2.30			26		
	16	2199+170	902	SOUSA RIVER	25	35	21	25	11.4	346.9	0.9	0.6	26	347.5	1.5	0.7	351.6	350.00	2.30			26		
	17	2278+979	472	FIRE CREEK RIVER	9	10	9	10	10.5	361.30	1.3	0.9	24	361.80	1.8	1.3	365.9	360.00	2.27			24	Proposed profile to be raised 5.99m. Alignment to relocate between 2278+967 & 2279+504 to avoid multiple crossings	
3	18	2307+971	4043	HAY RIER	45	50	45	50	17.7	357.7	1.0	0.4	45	358.0	1.3	0.7	362.1	361.50	2.53			45		
	19	2338+838	758	KYKLO CREEK	14	20	13	18	11.1	387.0	1.2	0.7	25	387.6	1.8	0.8	391.7	390.99	2.29			25	Alignment to relocate between 2338+833 & 2339+683 to avoid multiple crossings	
	20	3005+880	116	HOFFARD CREEK	10	66	9	44	16.0	439.1	1.1	0.9	36	439.7	1.7	1.0	443.8	451.40	2.24			36		
	21	3047+226	2270	SAHTANEH RIVER	50	70	40	55	42.1	341.2	1.2	0.9	101	341.7	1.7	1.1	345.8	372.00	2.40			101	Alignment to relocate between 3047+234 & 3047+683 to avoid multiple crossings	
	22	3056+700	475	SHUSH CREEK	17	19	15	17	20.4	381.5	1.5	0.9	46	382.3	2.3	1.2	386.4	395.00	2.27			46		
	23	3109+924	1650	KIWI GANA RIVER	31	40	30	35	34.6	371.4	1.4	0.8	81	371.9	1.9	1.2	376.0	391.90	2.35			81	Alignment to relocate between 3109+905 & 3110+149 to avoid multiple crossings	
	24	3134+078	450	CAPOL-BLANC CREEK	32	43	30	32	20.1	381.5	1.1	0.6	46	382.0	1.6	0.9	386.1	408.90	2.27			46		
	25	3166 + 400	119000	LIARD RIVER	500	570	450	515	1420.0	239.5	2.1	1.5	11 447	248.4	11.1	2.0	252.5	300.90	6.70			9514		
	26	3193+676	2126	BEAVER RIVER	113	150	115	160	40.4	279.0	0.6	0.6	96	279.3	0.9	0.7	283.4	345.00	2.39			96	Summary: http://en.wikipedia.org/wiki/Beaver_River_(C	
	27	3257+200	140	INFLUANT CROW RIVER	70	95	60	95	16.3	640.5	0.5	0.5	37	640.6	0.6	0.6	644.7	679.00	2.24			37		
	28	3278+504	1007	CROW RIVER	32	52	30	40	26.9	690.9	1.3	0.7	62	691.2	1.7	0.9	695.3	735.50	2.31			62		
	29*	3294+407	358	CROW RIVER	32	52	30	40	19.0	830.9	0.9	0.7	43	831.2	1.2	0.9	835.3	845.50	2.26			43		
	30	3348 + 921	1017	SMITH RIVER	56	71	55	60	27.0	561.0	1.0	0.5	62	561.5	1.5	0.7	565.6	641.10	2.31			62		
31	3395+951	5512	COAL RIVER	162	166	115	150	80.6	551.0	1.0	0.7	214	551.6	1.6	0.9	555.7	616.70	2.65			214			
32	3415+928	60000	LIARD RIVER	291	340	271	319	708.0	531.7	1.7	1.5	4 744	537.4	7.4	2.0	541.5	582.50	6.70			4744	Summary: http://fr.wikipedia.org/wiki/Liard_(rivi%C3%A		
33	3467+923	46000	LIARD RIVER	568	573	524	538	650.0	556.4	1.4	0.9	4 355	559.0	4.0	2.0	563.1	568.40	6.70			4355			
34	3475+891	640	HAYLAND RIVER	196	252	90	115	22.4	575.8	0.6	0.4	51	576.1	0.9	0.5	580.2	583.20	2.28			51			
4	35	4016+743	332	WATSON CREEK	13	17	12	15	18.7	651.6	1.6	1.0	42	652.0	2.0	1.4	656.1	658.30	2.26			42		
	36	4025+483	520	TOM CREEK	12	17	11	17	20.9	651.6	1.6	1.2	48	651.9	1.9	1.5	656.0	658.30	2.27			48		
	37	4057+000	12734	FRANCES RIVER	115	148	115	148	163.5	671.4	1.4	1.0	537	672.3	2.3	1.6	676.4	724.60	3.29			537		
	38	4110+637	1704	TUCHITUA RIVER	41	58	28	32	35.3	750.1	1.4	0.9	83	751.9	1.9	1.4	756.0	756.80	2.36			83		
	39	4174+136	487	MONEY CREEK	43	62	32	51	20.5	801.3	1.3	0.5	47	801.5	1.5	0.6	805.6	851.10	2.27			47		
	40	4268+351	293	BIG CAMPBELL CREEK	45	53	41	48	18.2	891.1	1.1	0.4	41	891.4	1.4	0.6	895.5	931.00	2.25			41		
	41	4304+175	1211	HOOLE RIVER	29	37	28	35	29.3	821.5	1.5	0.7	68	821.9	1.9	1.0	826.0	851.30	2.32			68		
	42	4338+046	578	KETZA RIVER	24	31	20	28	21.7	841.4	1.4	0.8	49	841.8	1.8	1.0	845.9	867.40	2.27			49		
	43	4357+724	1448	LAPIE RIVER	21	38	20	35	32.2	771.6	1.6	1.0	75	771.8	1.8	1.2	775.9	815.40	2.34			75		
	44	4426+100	743	MAGTANDY RIVER	31	38	14	20	23.7	773.5	1.4	1.2	54	773.8	1.7	1.6	777.9	786.00	2.29			54		
	45	4464+399	1560	MAGUNDY RIVER	43	47	23	26	33.5	630.9	1.5	1.0	79	631.6	2.2	1.4	635.7	640.70	2.35			79		
	46	4468+227	580	DRURY CREEK	31	35	18	26	21.7	641.3	1.3	0.9	49	641.6	1.6	1.2	645.7	675.70	2.27			49		
	47	4506+161	395	BEARFEED CREEK	12	17	10	15	19.4	640.1	1.6	1.2	44	640.5	2.0	1.5	644.6	641.40	2.26			44	Proposed profile to be raised 3.2m	
	48	4542+394	1007	FRENCHMAN LAKE DISCHARGE	38	44	27	34	26.9	560.9	0.9	1.1	62	561.4	1.4	1.3	565.5	589.00	2.31			62		
	49	4585+365	891	TATCHUN RIVER	16	18	12	19	25.5	541.5	1.5	1.4	58	541.9	1.9	1.6	546.0	576.40	2.30			58		
	50	5039+000	78000	YUKON RIVER	340	417	317	354	1780.0	468.5	8.5	0.9	3 160.0	470.5	10.5	1.0	474.6	468.90	1.78			3168	http://en.wikipedia.org/wiki/Yukon_river	

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Gauging Station to Track Alignment

SEGMENT	NO	STATION (PK)	CATCHMENT AREA (km²)	RIVER	WATERCOURSES												PROPOSED ELEVATION HYDRAULIC (m)	TRACK ELEVATION (m)	FP	FLOW RATE(M3/S)			COMMENTS	REFERENCE
					WIDTH OF RIVER ALONG TRACK		PERPENDICULAR WIDTH OF RIVER		NORMAL FLOW				MAXIMUM FLOW (1/100)							25-year	50-year	100-year		
					NORMAL (m)	MAXIMUM (m)	NORMAL (m)	MAXIMUM (m)	DISCHARGE (m³/s)	ELEVATION (m)	DEPTH (m)	VELOCITY (m/s)	DISCHARGE (m³/s)	ELEVATION (m)	DEPTH (m)	VELOCITY (m/s)								
5	51	5046+690	1820	BIG CREEK	45	101	26	39	36.7	461.6	1.6	0.9	86.7	461.9	1.9	1.2	466.0	459.86	2.36			87	Proposed profile to be raised 6.23m	
	52	5066+445	1080	WOLVERINE CREEK	30	35	30	35	27.7	461.3	1.3	0.7	64.1	461.8	1.8	1.0	465.9	467.44	2.31			64		
	53	5124+896	469	SELWYN RIVER	30	35	25	28	20.3	448.2	1.0	0.8	46.1	448.7	1.5	1.1	452.8	461.46	2.27			46		
	54	5173+900	501	COFEE CREEK	25	29	17	24	20.7	431.4	1.4	0.9	47.0	431.8	1.8	1.1	435.9	442.90	2.27			47		
	55	5263+577		WHITE RIVER CANAL	109	133	99	110	30.0	409.1	0.6	0.5	66.0	410.0	1.5	0.7	414.1	410.40	2.20			66	Proposed profile to be raised 3.8m	
	56	5265+000	28283	WHITE RIVER	1325	1720	1010	1420	327.7	400.6	0.6	0.5	2 752.4	402.4	2.4	0.8	406.5	406.20	8.40			2752	http://en.wikipedia.org/wiki/White_River_(Yukon)	
	57	5266+294		WHITE RIVER CANAL	158	211	94	122	52.0	391.5	1.5	0.5	120.0	392.2	2.2	0.7	396.3	407.50	2.31			120		
	58	5303+400	518	MCA RTHUR CREEK	20	26	20	26	20.9	441.2	1.2	0.9	47.5	441.5	1.5	1.2	445.6	448.40	2.27			47		
	59	5340+777	615	SOUTH FORK LADUE RIVER	26	35	25	31	22.1	511.1	1.1	0.8	50.3	511.5	1.5	1.1	515.6	530.01	2.28			50		
	60	5364+457	521	LADUE RIVER	27	31	27	31	21.0	571.1	1.1	0.7	47.6	571.7	1.7	0.9	575.8	603.09	2.27			48		
	61	5375+056	302	LADUE RIVER	75	83	28	33	18.3	614.0	1.3	0.5	41.3	615.8	1.8	0.7	619.9	618.29	2.25			41		
	62	5409+286	6230	TANANA RIVER	234	301	217	283	89.1	460.8	0.8	0.5	963.0	463.1	3.1	1.1	467.2	494.27	2.71			241	http://en.wikipedia.org/wiki/Tanana_River	
	63	5416+649	2384	TOK RIVER	40	45	27	31	43.5	481.6	1.6	1.0	104.6	482.2	2.2	1.5	486.3	486.55	2.41			105	Alignment to relocate between 5417+137 & 5417+224 to avoid multiple crossings	
	*64	5456+220	93	YERRICK CREEK	116	156	114	128	15.7	500.3	0.3	0.5	35.3	500.5	0.5	0.6	504.6	507.60	2.24			35		
	65	5478+453	1500	ROBERSON RIVER	596	642	596	642	32.8	464.0	0.3	0.2	76.8	464.1	0.4	0.3	468.2	498.90	2.34			77		
	*66	5494+960	238	BEER CREEK	13	15	12	14	17.5	445.9	1.8	0.8	39.4	446.3	2.2	1.3	450.4	448.90	2.25			39		
	67	5532+070	830	JOHNSON RIVER	248	311	237	297	24.7	410.5	0.5	0.2	56.7	410.6	0.6	0.3	414.7	434.30	2.29			57		
	68	5544+982	375	LITTLE GERSTLE RIVER	16	42	16	30	19.2	377.4	1.3	0.9	43.4	377.5	1.4	1.0	381.6	385.89	2.26			43		
69	5552+000	615	GERSTLE RIVER	486	501	486	501	22.1	398.4	0.2	0.2	50.3	398.5	0.3	0.3	402.6	405.90	2.28			50			
70	5570+050	332	SAWMIL CREEK	45	50	40	45	18.7	350.2	0.8	0.6	42.1	350.3	1.0	0.9	354.4	354.10	2.26			42			

NOTE: * Crossing added as per geotech info.