



SUNSHINE COAST REGIONAL DISTRICT

Question and Answers #3

Request for Proposal No. 2337006

Dam Safety Improvement and Upgrades to Chapman, Edwards and McNeil Lakes

Date: July 6, 2023

Item No.1

Question: Provide hydrology info showing lake levels throughout the year.

Answer:

Month	Chapman Lake Level (in Centimeters Over the Weir)												
	Week #	Min 2017	Max 2017	Min 2018	Max 2018	Min 2019	Max 2019	Min 2020	Max 2020	Min 2021	Max 2021	Min 2022	Max 2022
Aug	1	-29	-7	-126	-72	-26	0	-69	-38	-185	-132	-39	-6
Aug	2	-70	-34	-181	-132	-22	-8	-86	-63	-234	-190	-92	-46
Aug	3	-110	-73	-223	-185	-48	-23	-121	-92	-274	-242	-157	-100
Aug	4	-172	-118	-267	-226	-72	-49	0	10	-318	-280	-227	-167
Sept/Aug	5	-245	-180	-297	-269	-107	-78	-22	-1	-340	-322	-292	-236
Sept	6	-275	-251	-319	-304	-146	-114	-67	-27	-342	-336	-342	-295
Sept	7	-286	-277	-294	15	-151	47	-117	-76	-344	-197	-388	-350
Sept	8	-280	-270	8	25	5	27	-137	10	-125	-66	-423	-391
Sept/Oct	9	-281	-277	6	23	3	11	1	18	-67	34	-459	-426
Oct	10	-320	-283			2	9	-5	1	7	15	-484	-461
Oct	11	-333	-323	5	5	1	6	6	23	8	23	-503	-487
Oct	12	-307	11	3	5	11	41	5	13			-518	-505
Oct	13	-5	3	3	4	0	0	5	5			-518	-434

*Note: Chapman valve invert is ~ - 300cm.

Month	Week #	Min 2017	Max 2017	Min 2018	Max 2018	Min 2019	Max 2019	Min 2020	Max 2020	Min 2021	Max 2021	Min 2022	Max 2022
Aug	1	476	477	487	490	492	496	488	490	477	480		
Aug	2	474	475	486	490	492	494	487	489	471	478		
Aug	3	474	475	474	489	492	493	486	505	453	468		
Aug	4	471	474	439	472	491	492	491	501	454	456	478	482
Aug/Sept	5	462	471	424	435	491	491	490	491	437	452	461	475
Sept	6	432	458	421	427	490	491	488	490	431	439	441	461
Sept	7	386	426	427	466	498	519	488	490	430	458	409	437
Sept	8	354	383	466	492	503	511	489	516	460	462	359	398
Sept/Oct	9	328	349	491	515	495	504	495	504	467	510	311	354
Oct	10	323	327			497	501	494	512	499	502	259	303
Oct	11	310	324			495	515	503	510			199	252
Oct	12	323	369			507	518	501	503			145	189
Oct	13	370	372									136	145
Oct/Nov	14	365	373									340	340

**Note: Edward maximum level is ~510 cm; bottom of wooden stop logs is at ~310.

2022 McNeil Lake (Level in Inches)

Month	Week #	Min of McNeil Lake Level	Max of McNeil Lake Level
Aug	1	42.6	44.3
Aug	2	40.7	42.5
Aug	3	38.2	40.2
Aug	4	36.4	38.1
Sept	5	33.5	35.6
Sept	6	31.4	33.5
Sept	7	29.6	31.0
Sept	8	27.9	29.3
Sept/Oct	9	26.3	27.8
Oct	10	24.5	26.0
Oct	11	22.9	24.3
Oct	12	22.3	23.4
Oct/Nov	13	24	26.25

*** Note: McNeil Lake maximum level is 48 inches to the top of the dam. To calculate free board subtract the number in the table from 48.