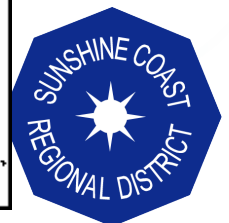
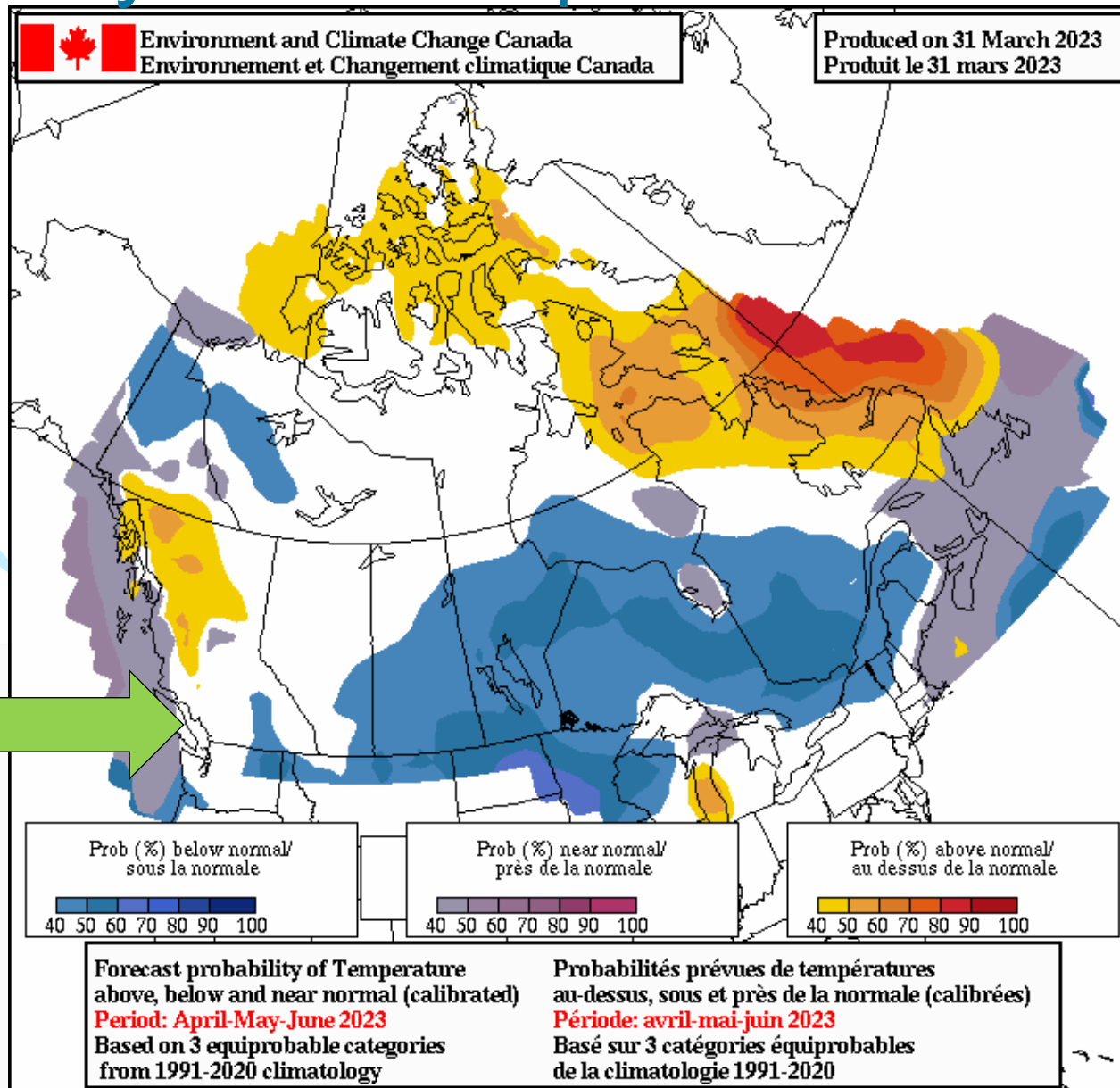


Water Supply Update

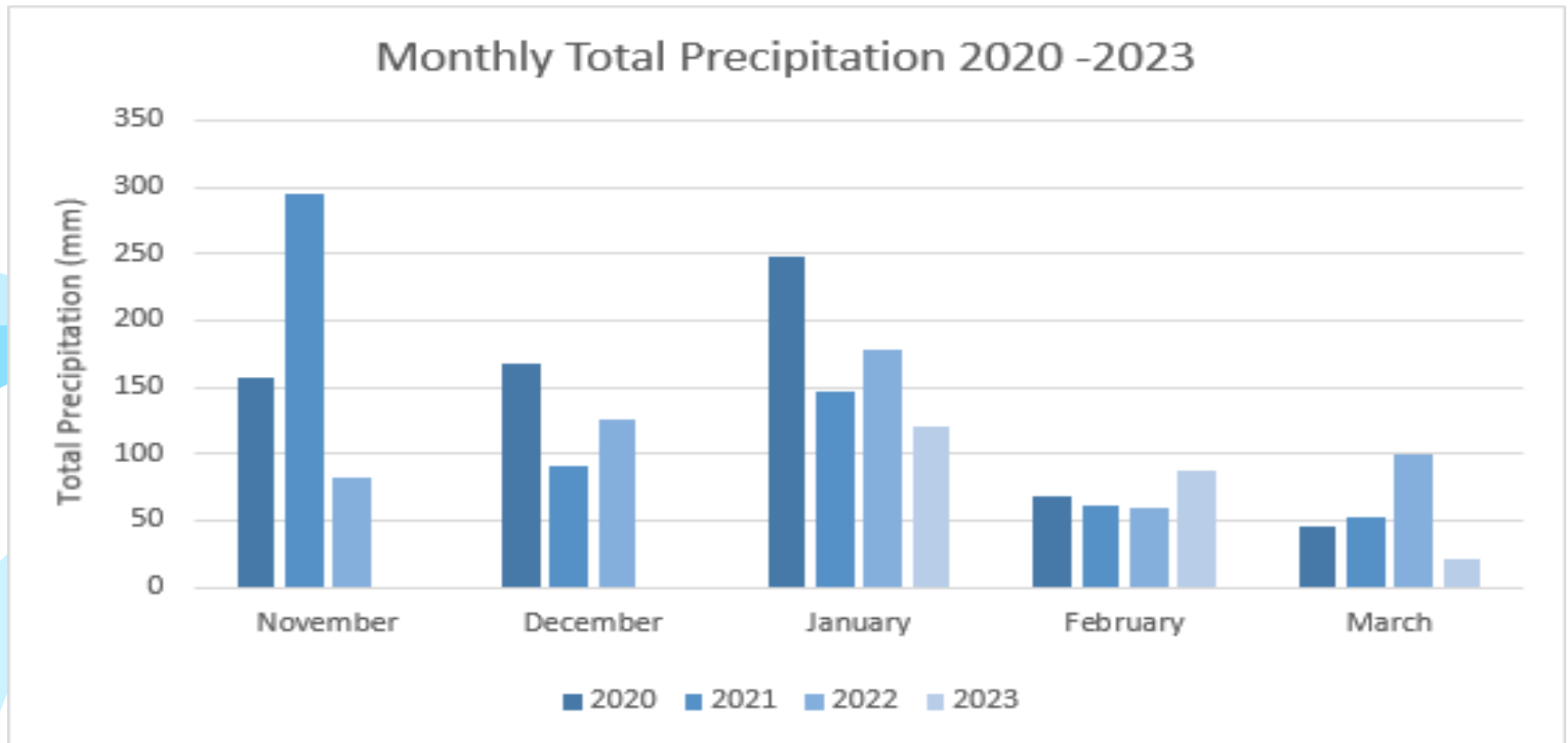
Committee of the Whole
April 6, 2023



April-May-June Temperature Forecast



Rainfall Data – Sechelt Airport



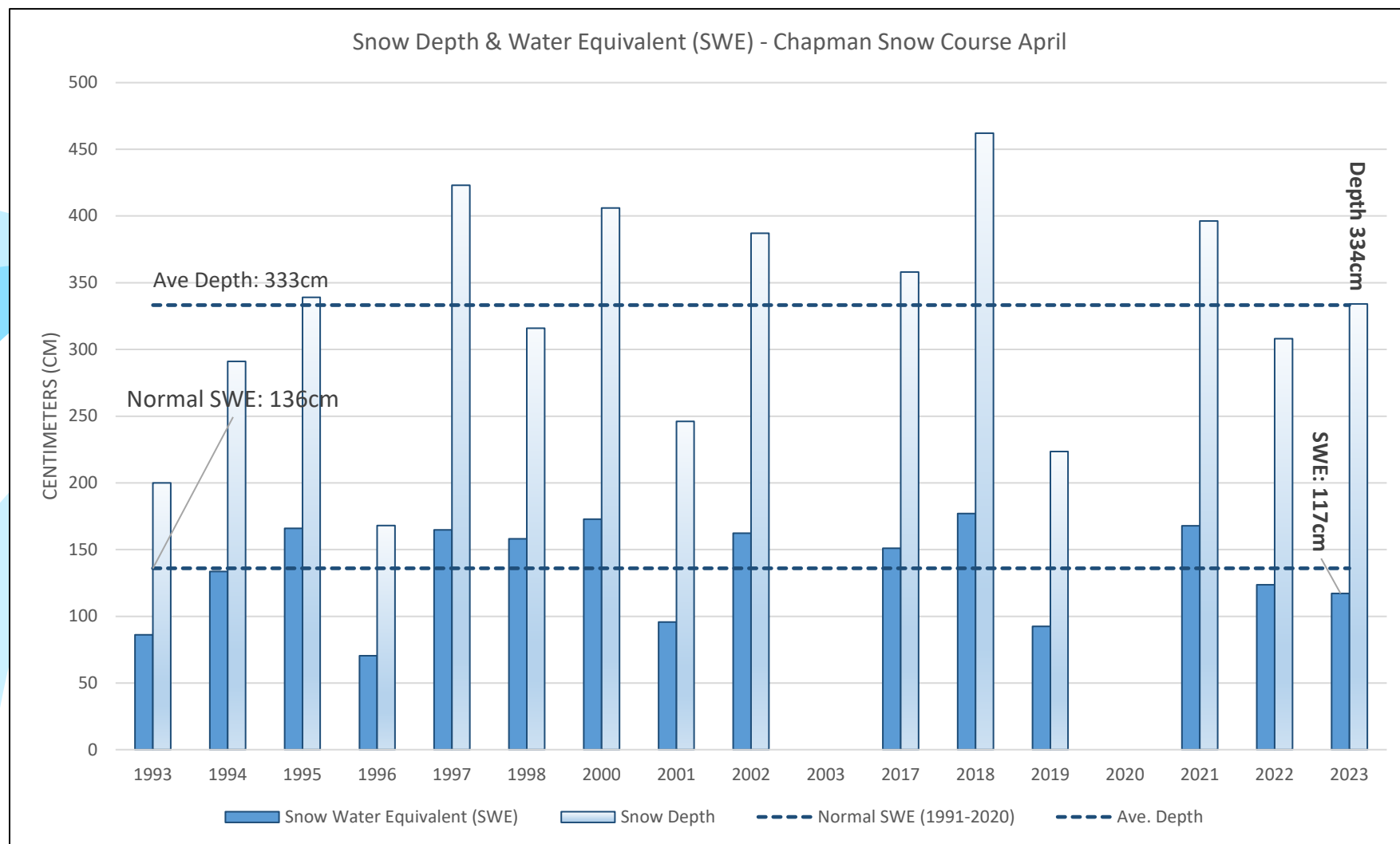
Snow Surveys

- SCRd staff measure snowpack monthly in the Chapman Watershed from February until June to track snow melt and supply.
- Snow melt is an important contribution to our water supply
- Temperature and rainfall will determine the rate of snow melt in late spring and water supply conditions as we enter summer.



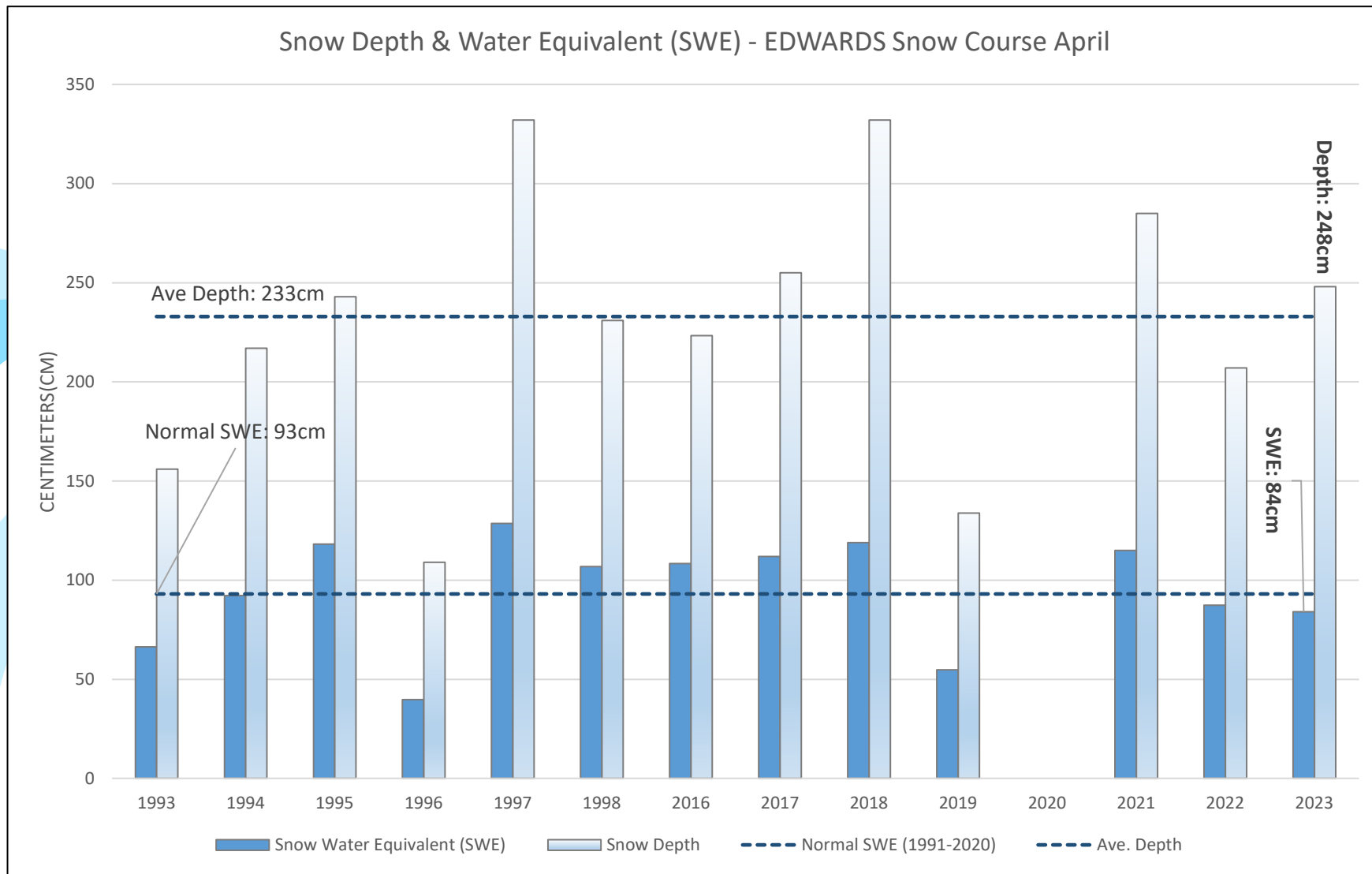
Snow Surveys – April 3, 2023

- Chapman Snow Water Equivalent: 86% of Normal



Snow Surveys – April 3, 2023

- Edwards Snow Water Equivalent: 90% of Normal



Snowpack - April 2023

- April snow levels are just below average.
- Historically, the April 1st measurement for water content in the snow is the highest of the season.
- Weather conditions from April-June determine timing, magnitude and rate of snow melt.
- Next survey scheduled for May 1st.



Drought Response Plan

- Water Conservation Regulations begin on May 1 each year for all SCRD water users.
- Decisions about which Stage to implement are based on a set of criteria outlined in the Drought Response Plan:
 - Time of year and typical seasonal trends
 - Snowpack assessments and snowmelt forecasts
 - How much water is left in the lake
 - How fast the lake level is going down
 - Stream flows and monitoring data
 - Weather and forecasts
 - Water usage, recent consumption and trends
 - Water supply system performance














Water Conservation Communications

In preparation for summer, staff have

- Sent 322 “Leak Letters” (March 8)
- Sent 515 letters to the top water users (March 24)
- And next quarterly leak letters will be sent in June

Upcoming communications in April

- Staff will mail a Water Conservation Regulation chart (mid April)
- Full page ad in the Coast Reporter (April 21)

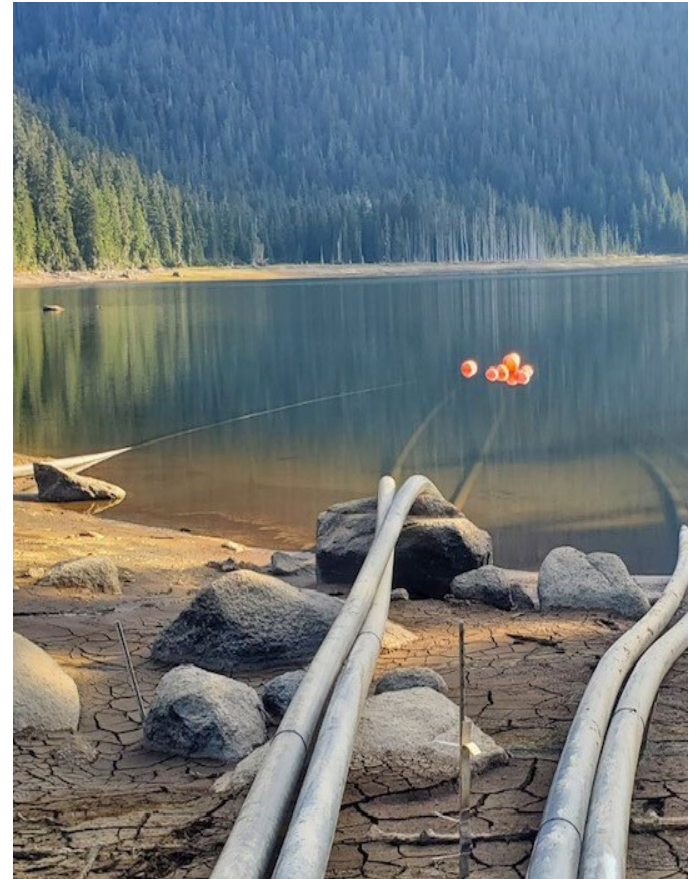
 Water Conservation Regulations				
socrd.ca/sprinkling-regulations		STAGE 1	STAGE 2	STAGE 3
WATERING		MAY 1 TO SEP. 30	BASED ON DEMAND AND ENVIRONMENT	
  	Trees, flowers and shrubs	PERMITTED	4 hours/day max. 7am - 8am and 7pm - 9pm	1 hour/day max. 7am - 8am or 7pm - 9pm
	Food producing trees and plants	PERMITTED	PERMITTED	2 hours/day max. 7am - 8am and 7pm - 9pm
  	Lawns	Two days per week 7am - 8am Even numbered address: Thu/Sun Odd numbered address: Wed/Sat <i>(Hand watering is permitted at any time)</i>	NOT PERMITTED	NOT PERMITTED
	Trees, flowers and shrubs	Three days per week 7am - 8am and 7pm - 9pm Even numbered address: Tue/Thu/Sun Odd numbered address: Mon/Wed/Sat	Two days per week 7am - 8am Even numbered address: Thu/Sun Odd numbered address: Wed/Sat	NOT PERMITTED
	Food producing trees and plants	Three days per week 7am - 8am and 7pm - 9pm Even numbered address: Tue/Thu/Sun Odd numbered address: Mon/Wed/Sat	Two days per week 7am - 8am and 7pm - 9pm Even numbered address: Thu/Sun Odd numbered address: Wed/Sat	NOT PERMITTED
WASHING				
 	Sidewalks, driveways, windows, fences and exterior building surfaces	PERMITTED	NOT PERMITTED except for preparing surfaces for painting or paving and for health and safety regulations.	NOT PERMITTED except for health and safety regulations.
	Vehicles and boats	PERMITTED	PERMITTED	PERMITTED only to wash off sea water.
FILLING				
 	Swimming pools and hot tubs	PERMITTED	PERMITTED	NOT PERMITTED
	Garden ponds and fountains	PERMITTED	PERMITTED	NOT PERMITTED
STAGE 4 BAN ON ALL OUTDOOR WATER USE				
FINES		STAGE 1 \$200	STAGE 2 \$300	STAGE 3 \$400
				STAGE 4 \$500

Questions or report a violation: 604-885-6806 | infrastructure@socrd.ca



Chapman Water System Siphon System Update

- Licence renewals are required to use the emergency siphons in both Chapman and Edwards Lakes for 2023 and 2024.
- SCRD requested a letter of support from shíshálh Nation.
- Staff have prepared a letter for the Board Chair to review and send to the Province requesting these applications be expedited.



Church Road Well Field Project

Water Supply

- The pumps currently in place will provide roughly three million litres per day.
- SCRD is working to have larger pumps installed by June to allow for more water to be pumped.
- Even if the larger pumps cannot be installed in the coming weeks, this well field is anticipated to be online by June.



Church Road Well Field Project

Water licence

- SCRD needs to meet requirements in the conditional water licence before the final water licence can be issued.
- The consultant has been collecting Soames Creek flow and fish habitat data for Provincial Government review in the next month.
- Consultant met with Provincial Government staff regarding the water licence, including data, approval and timeline.



Environmental Flow Needs (EFN)

- Environmental Flow Needs is a provincial requirement under the Water Sustainability Act and is the volume and timing of water flow required for the proper functioning of the aquatic ecosystem of the stream.
- EFN for Chapman Creek is 200L/s minimum, year-round.
- Last May, the SCRD applied to the Province to lower Chapman Creek EFN requirements, based on recommendations from registered professional biologists.
- SCRD is waiting on a response from the Province.



More Water Supply Projects

- **Water Meter Installations in Sechelt**
 - RFP closed, to be awarded
 - Will be impacted by supply chain issues
 - SCRD is awaiting further information on a six-million-dollar grant application
- **Gray Creek water treatment upgrade**
 - In second year of the two-year monitoring of flows required for feasibility study



More Water Supply Projects

- **Langdale Well Field**

- Drilling and testing of test wells has been completed. Consultant is drafting report summarizing results.

- **Maryanne West Park Well**

- Staff are discussing potential opportunities for collaboration with the Town of Gibsons .

- **Raw Water Reservoir**

- Work underway through April for geotechnical drilling and analysis to determine the potential for this area to be used as a reservoir.



What else are we doing?

- Upgraded aged A.C. Henry Road watermain
- Rainwater harvesting rebates: 50% of funds claimed
- Monthly water use update: 737 residents signed up
- Water Rate Structure Review, to be completed Q2
- Bylaw reviews to incorporate water conservation initiatives – ongoing, delayed due to other staff priorities
- Planning to support Sunshine Coast Tourism and Sunshine Coast Regional Economic Development Organization (SCREDO) with water conservation initiatives



What are we hearing...

When is Stage 2?

- Hang on, we haven't even reached Stage 1 yet!
- Many variables, as mentioned earlier will come into play – **Chapman Water System is highly rain and weather dependent!**
- SCRD staff meet at least once a week to discuss any changes to the creek flow and drinking water demand to determine the best stage of regulations.



What are we hearing....

Why are there no rebates for small rainwater barrels?

- SCRD provides rebates for cisterns that can have a greater impact
- Goal is to promote water efficiency by not using treated water outdoors
- No anticipated changes in rebate size
- If you use 100L per day for gardening, you'll need $100 \text{ L} \times 30 \text{ days} = 3,000\text{L}$ for each month of dry weather
- But depends on garden size, how much you water...



4500L = up to \$500
9000L = up to \$1000

Questions?

