

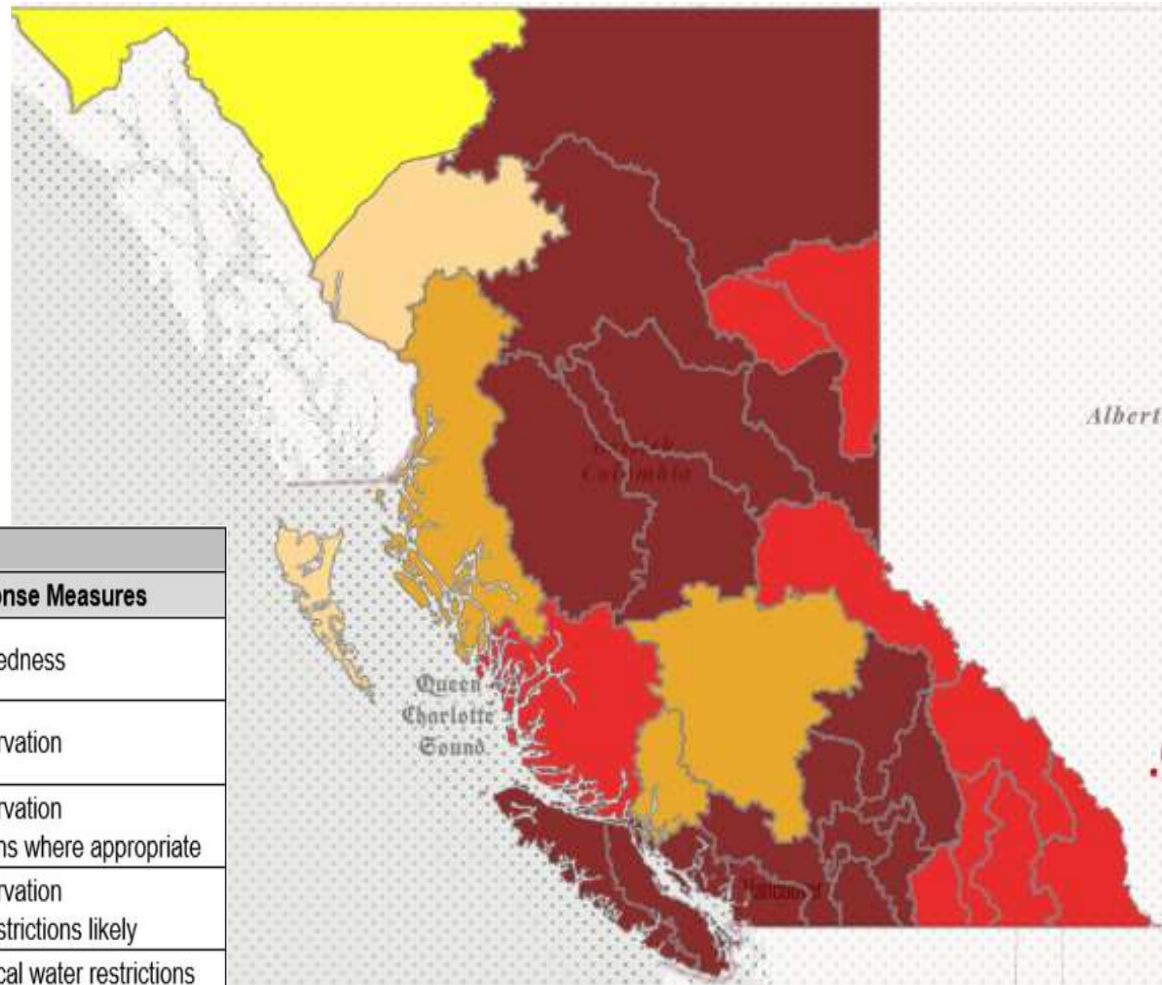
Water Supply Update

August 24, 2023



BC Drought Conditions








Sunshine Coast - Level 5



Drought Level Classification		
Level	Impacts	General Response Measures
0	There is sufficient water to meet socio-economic and ecosystem needs	Preparedness
1	Adverse impacts to socio-economic or ecosystem values are rare	Conservation
2	Adverse impacts to socio-economic or ecosystem values are unlikely	Conservation Local water restrictions where appropriate
3	Adverse impacts to socio-economic or ecosystem values are possible	Conservation Local water restrictions likely
4	Adverse impacts to socio-economic or ecosystem values are likely	Conservation and local water restrictions Regulatory action possible
5	Adverse impacts to socio-economic or ecosystem values are almost certain	Conservation and local water restrictions Regulatory action likely Possible emergency response



7 Day Forecast

Fri 08/25	Sat 08/26	Sun 08/27	Mon 08/28	Tue 08/29	Wed 08/30	Thu 08/31
A mix of sun and clouds	Sunny	Sunny	Mainly sunny	Light rain	Light rain	Cloudy with sunny breaks
						
24°	26°	28°	24°	18°	18°	18°



Eastbourne Water System

- Stage 4 on July 31
- Well volumes are low
- Water rationing
- Thank you to residents of Eastbourne Water system for conserving water year-round

South Pender Water System

- Provincial drought, with hot and dry early summer, reduced McNeill Lake levels
- Stage 3 was needed to slow dropping lake levels – it's working
- Thank you to residents for conserving
- Staff working on solutions to access more water from Harris Lake now and next year

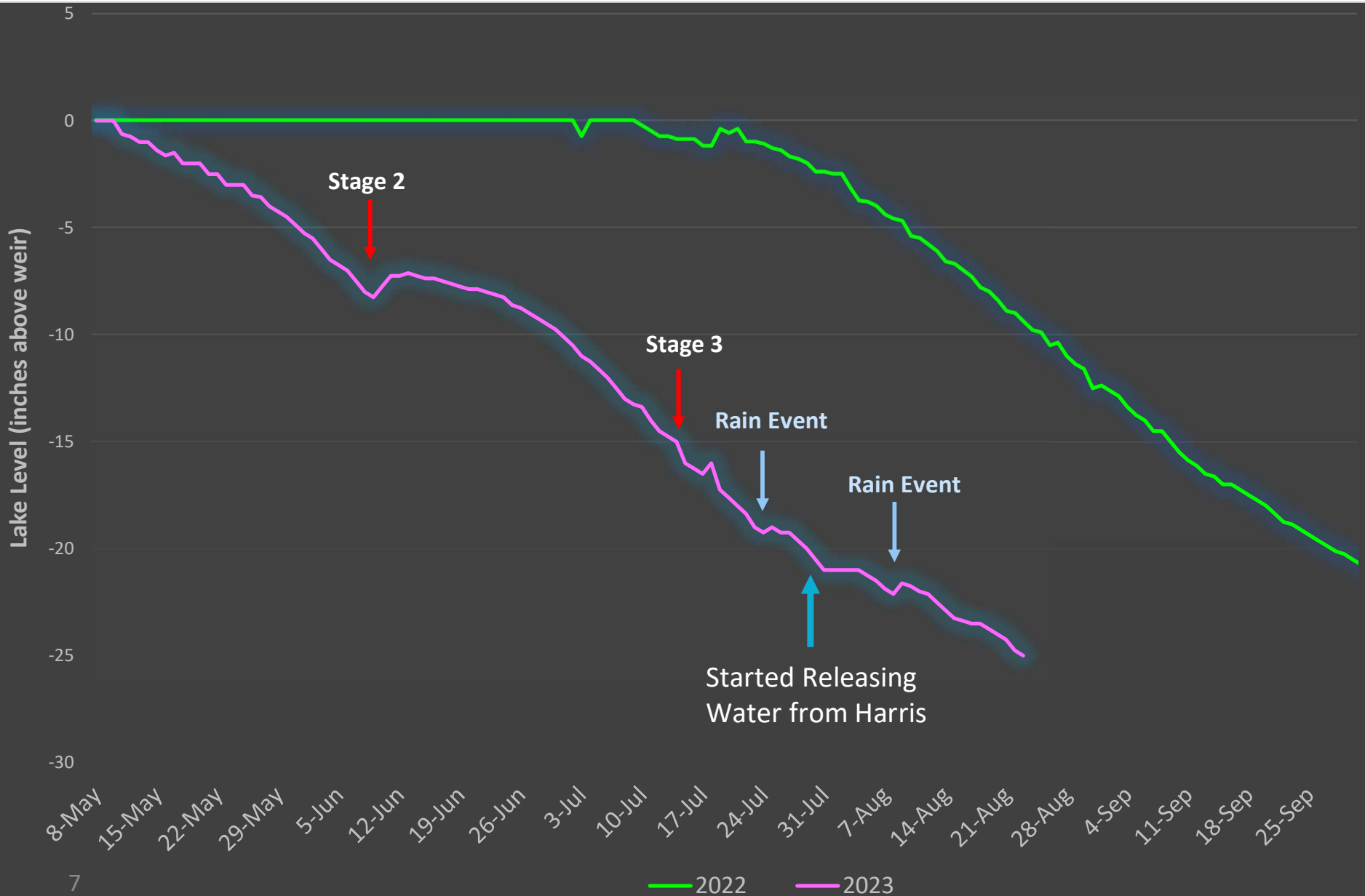


Harris Lake

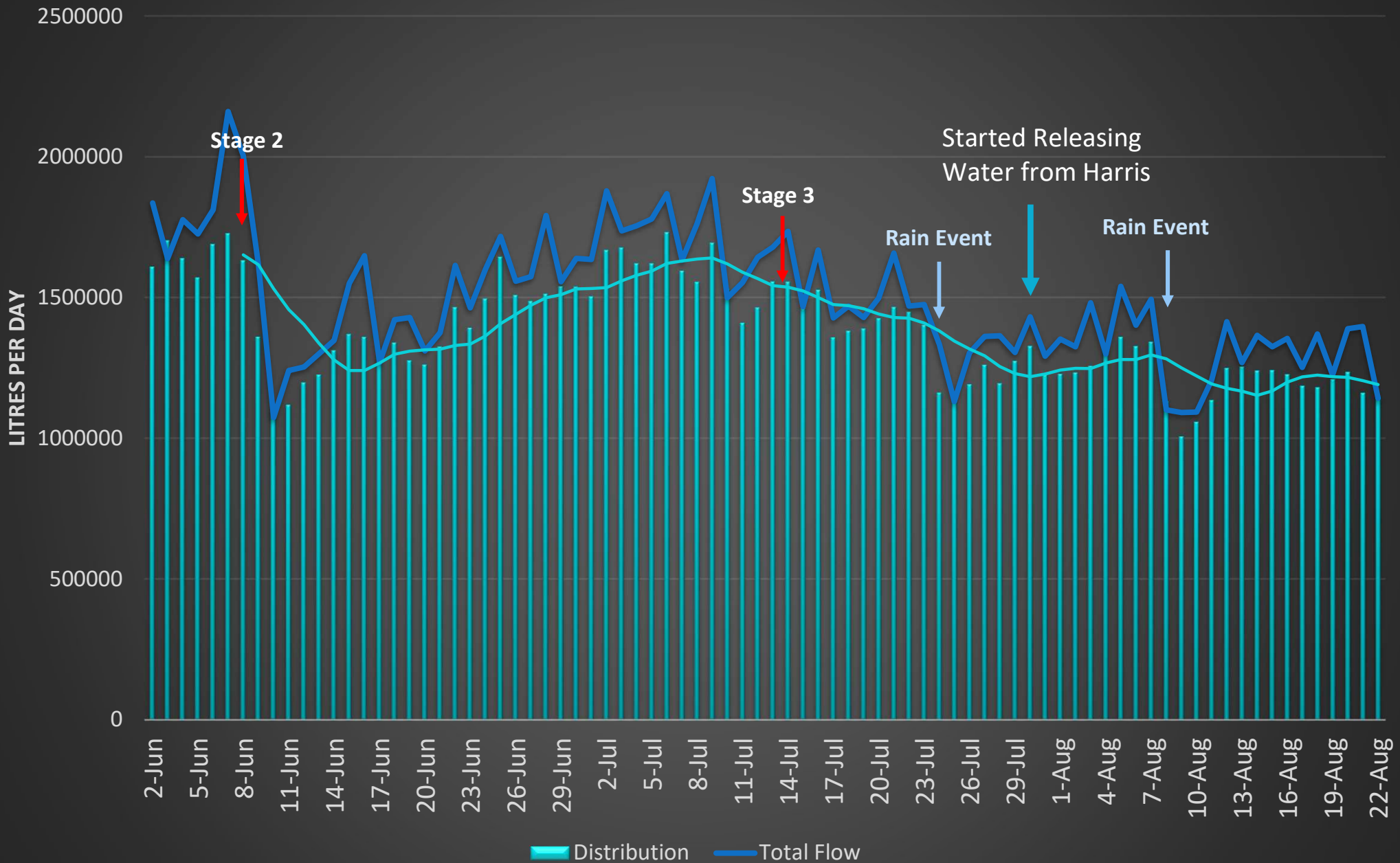
August 23, 2023



McNeill Lake Level



South Pender Treatment Plant

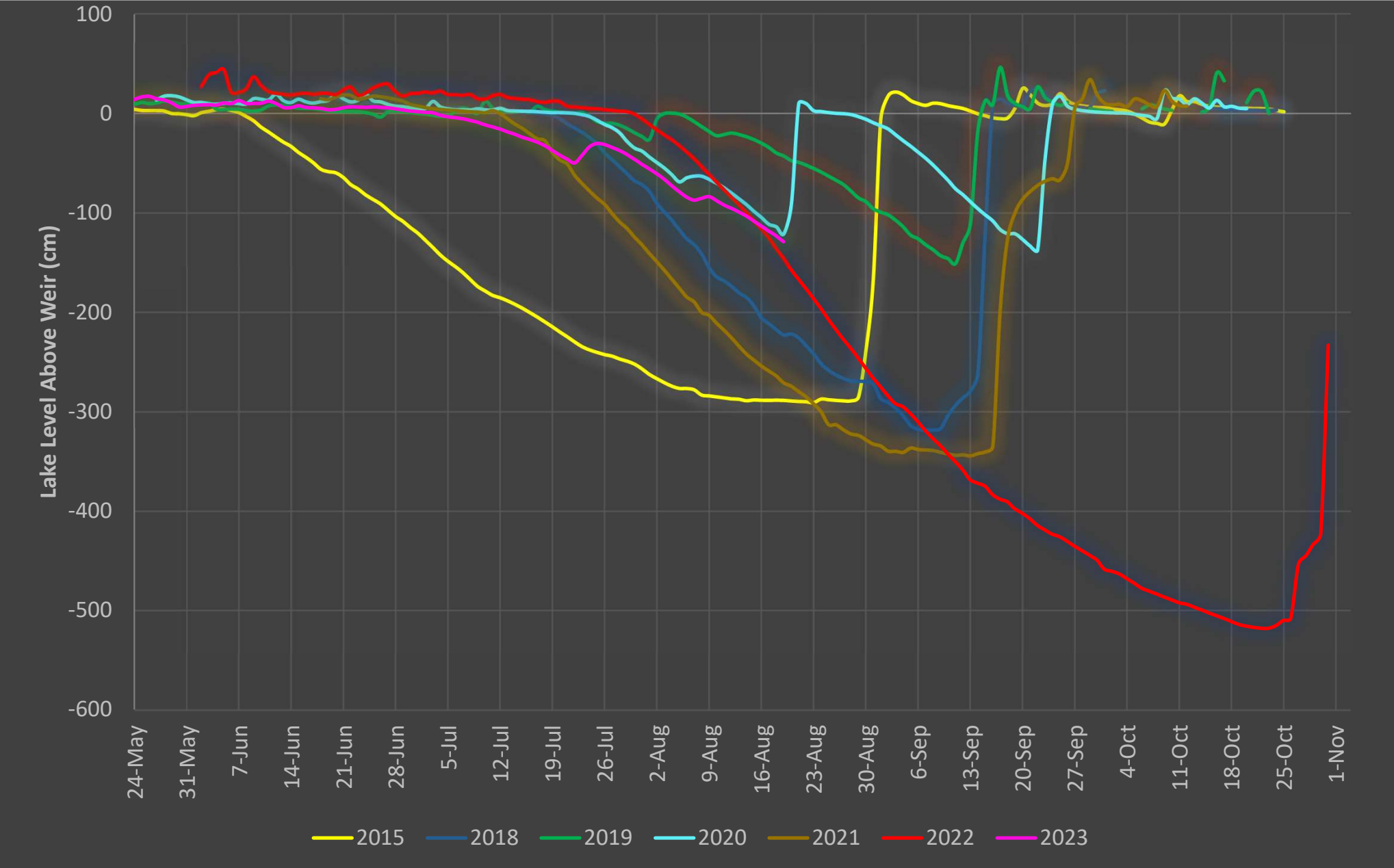


Chapman Water System

- Chapman Lake levels continue to drop 1-2% per day due to community use and evaporation
- Additional water supply from Church Road, Gray Creek and Chaster Well are currently online and extending the Chapman Lake supply
- Without significant rain in forecast, Stage 4 regulations will be called in early September
- Conservation efforts must continue

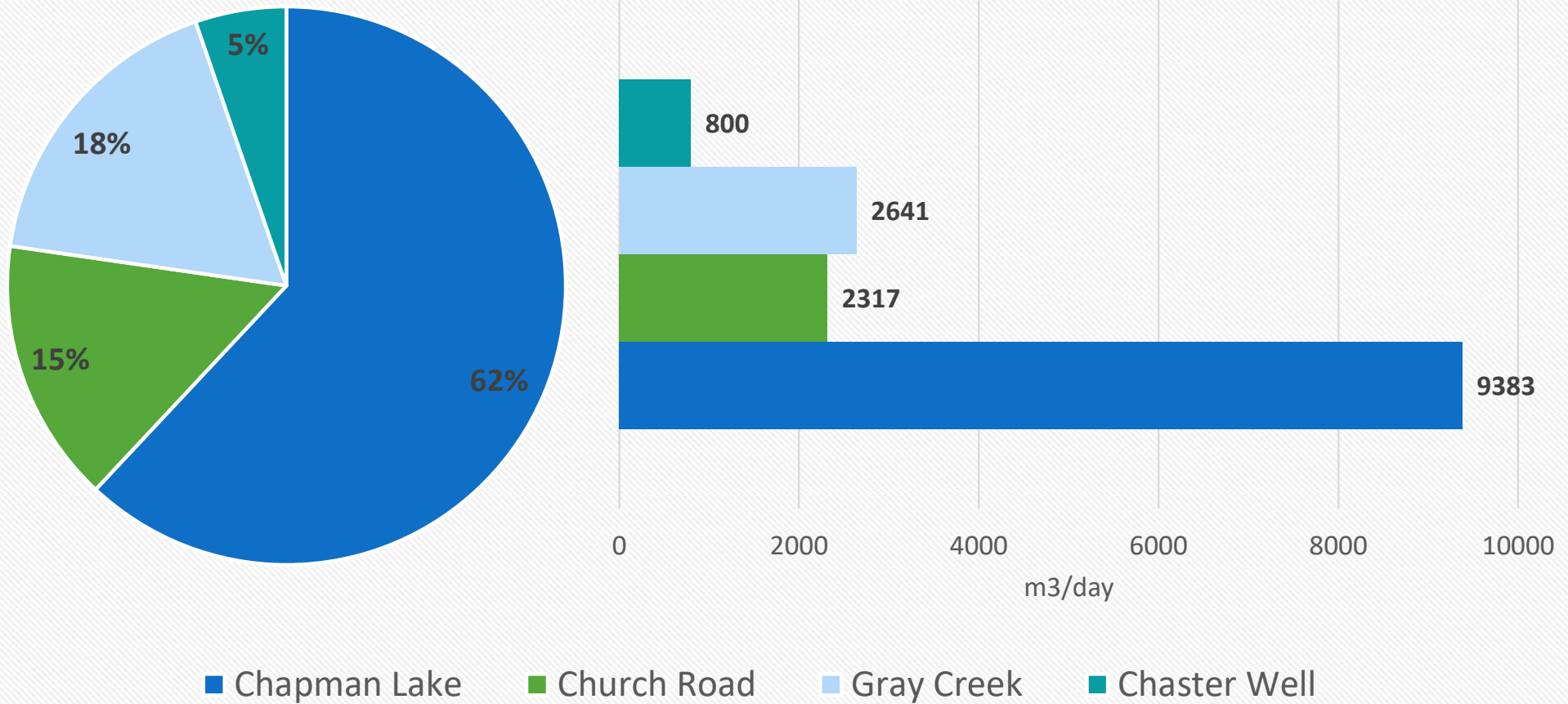


Historic Chapman Lake Levels



Chapman System Supply Sources

Aug 13 -19, 15,140 m3/day average



Edwards Lake

- Additional water supply that supports the Chapman Water System
- Typically accessed when Stage 3 or 4 regulations are in place
- Water is released by a valve in the dam, with additional volume accessible by siphons (installed in 2022)



Managing storage water

Chapman Lake August 23, 2023





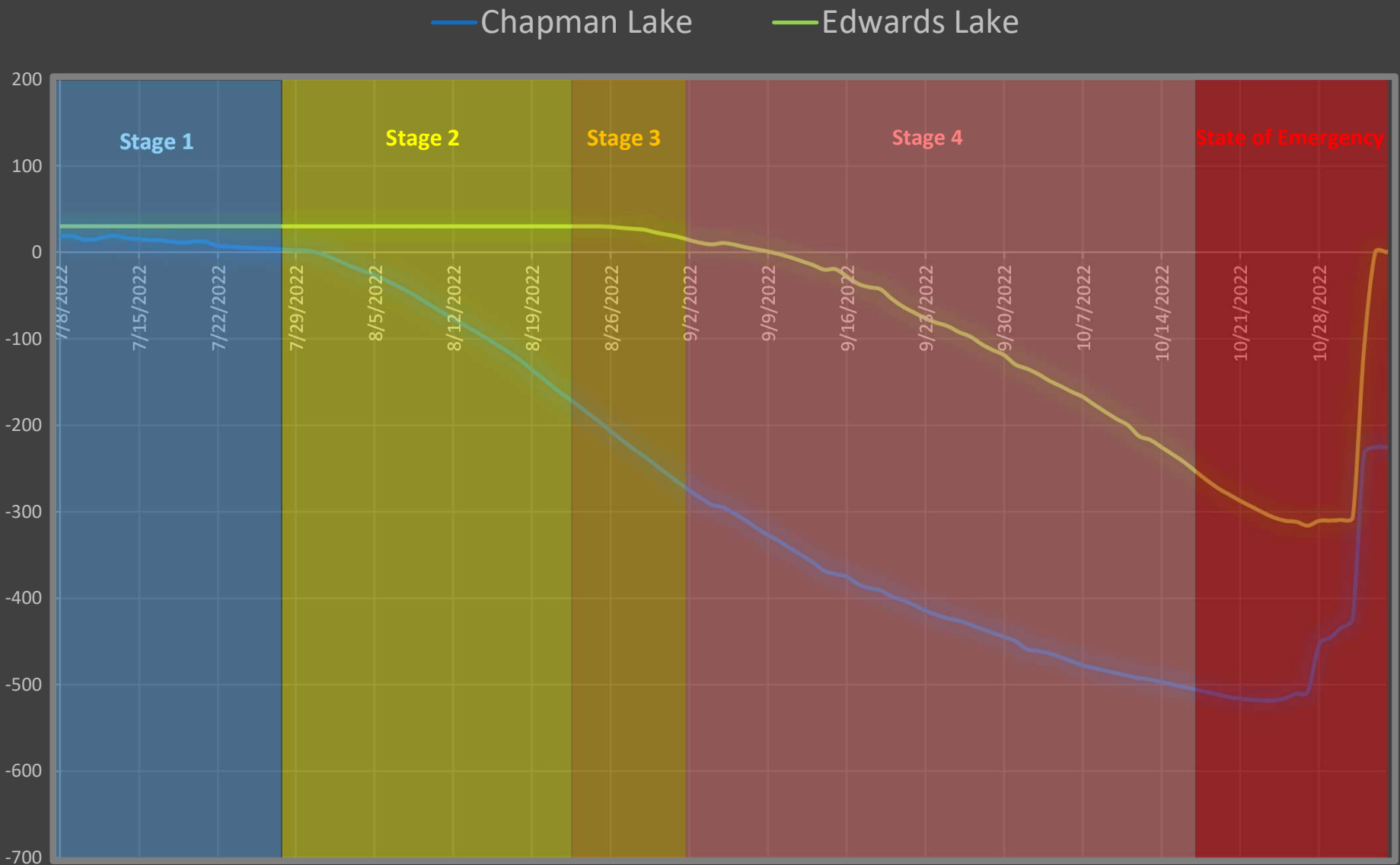
Edwards Lake

Chapman Lake

Sechelt

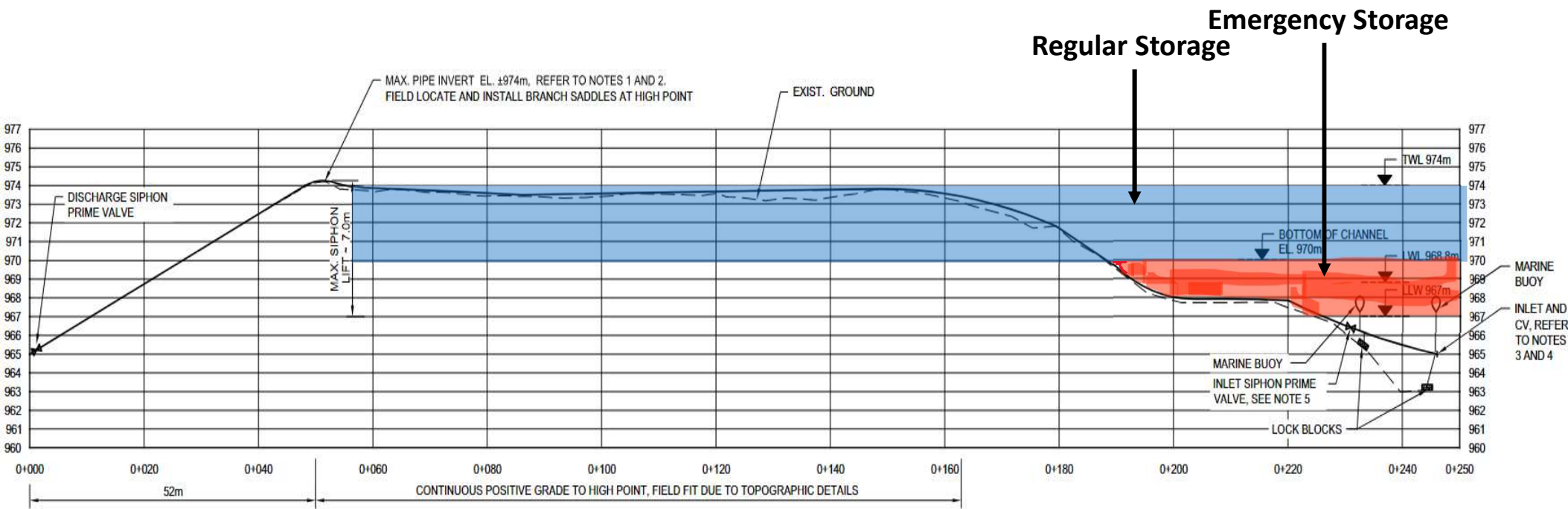
Water Treatment
Plant

2022 Lake Level Management



Chapman & Edwards Lake -2022

How we managed the storage water last year



PROFILE

Scale: H=1:500 V=1:200



Chapman Lake -2.2m

August 26, 2022



Chapman Lake -4.8m

October 6, 2022



Edwards Lake -1.8m

October 6, 2022



Edwards Lake -3.57m

October 22, 2022



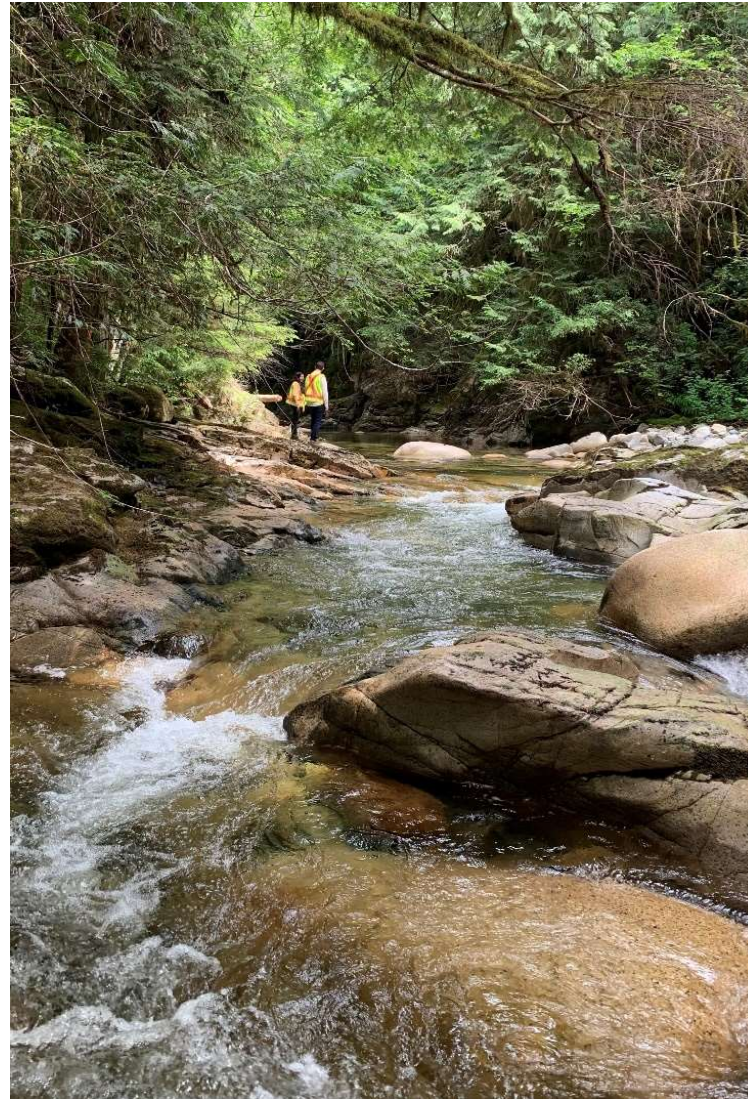
Chapman Lake -5.1m

October 28, 2022



Environmental Flow Needs Chapman Creek

- The Province has reviewed our Environmental Monitoring Plan
- SCRD provided supplementary information to the Province on August 23, 2023



Church Road Update

- In the last week producing more than 2,600 m³/day
- Ongoing fine tuning of the components & controls
- Operators becoming more familiar with this new source and integrating it into the Chapman Water System



Water Conservation Actions

- SCRD co-hosted a second Water Update to Local Businesses with the SCREDO / SCT and the presentation is available at scrd.ca/water-updates
- 5 shut-off notices were sent mid-August to properties with large leaks that remain unresolved – more to come
- Direct communication to top 100 metered residential Chapman System water users at start of Stage 3
- Commercial, residential leak letters in early September
- The SCRD reviews all water conservation regulation infraction complaints



Monthly Water Use Update Testimonials

I signed up for the monthly testimonial when I discovered that I had a massive, unknown leak under my house. The SCRD notified me and helped me find the leak and kindly helped to fix it. An old, previously unknown water pipe going nowhere had rusted out and was pouring water into the ground. It's all fixed now, and I find great comfort every month knowing that "Hooray, no leak detected." I have always conserved water. It's nice to know that now, all is ok at my house. I check the email every month to make sure all is still well.

External Message

Hand watering is a much more efficient way of watering plants than using a sprinkler.

I had no idea I was using as much as I was!

Our water use is considerably lower. We do like to read the graphs.

Thank you.

We're very cognitive of our high water use and are taking measures to manage it better. It's our first year in the new house and we moved here to be more self-sufficient growing our own garden and had to replant the lawns. We bought some rain barrels and soaker hoses. Averages don't always tell the true story when you have a lot of seasonal homes that don't manage flower and vegetable gardens. We will stay on top of trying to reduce our consumption going forward. We are reusing bath and dishwater and trying our best.

Cheers

Learn more

- For current information on Stage and Lake Level visit www.scrd.ca/water-updates
- The next scheduled water supply update will be **September 14, 2023**

Chapman Lake Water Storage Level

43%

Last updated: Aug 22 2023

Previous Water Storage Levels (2023)

July 3	100%
July 10	96%
July 17	89%
July 24	82%
July 31	80%
Aug 7	65%
Aug 14	59%
Aug 21	45%
Aug 22	43%