

# Water Supply Update

September 28, 2023

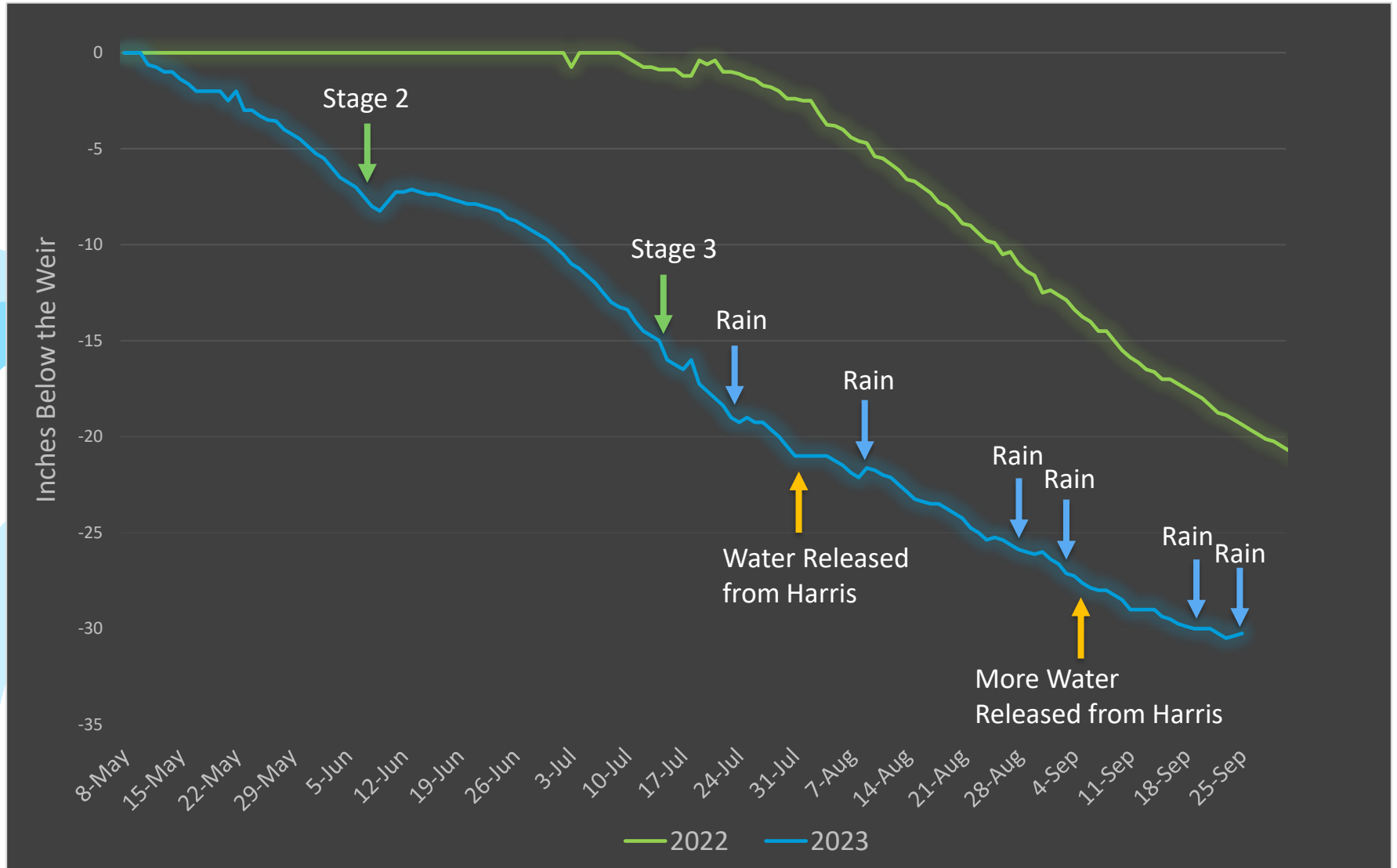


# SCRD Water Conservation Regulations

Stage 1	Stage 2	Stage 3	Stage 4
Chapman		South Pender	Eastbourne
Egmont			
Cove Cay			
North Pender			
Langdale			
Soames Point			
Granthams Landing			



# McNeill Lake Level – South Pender



# South Pender Stage 3 – Still required

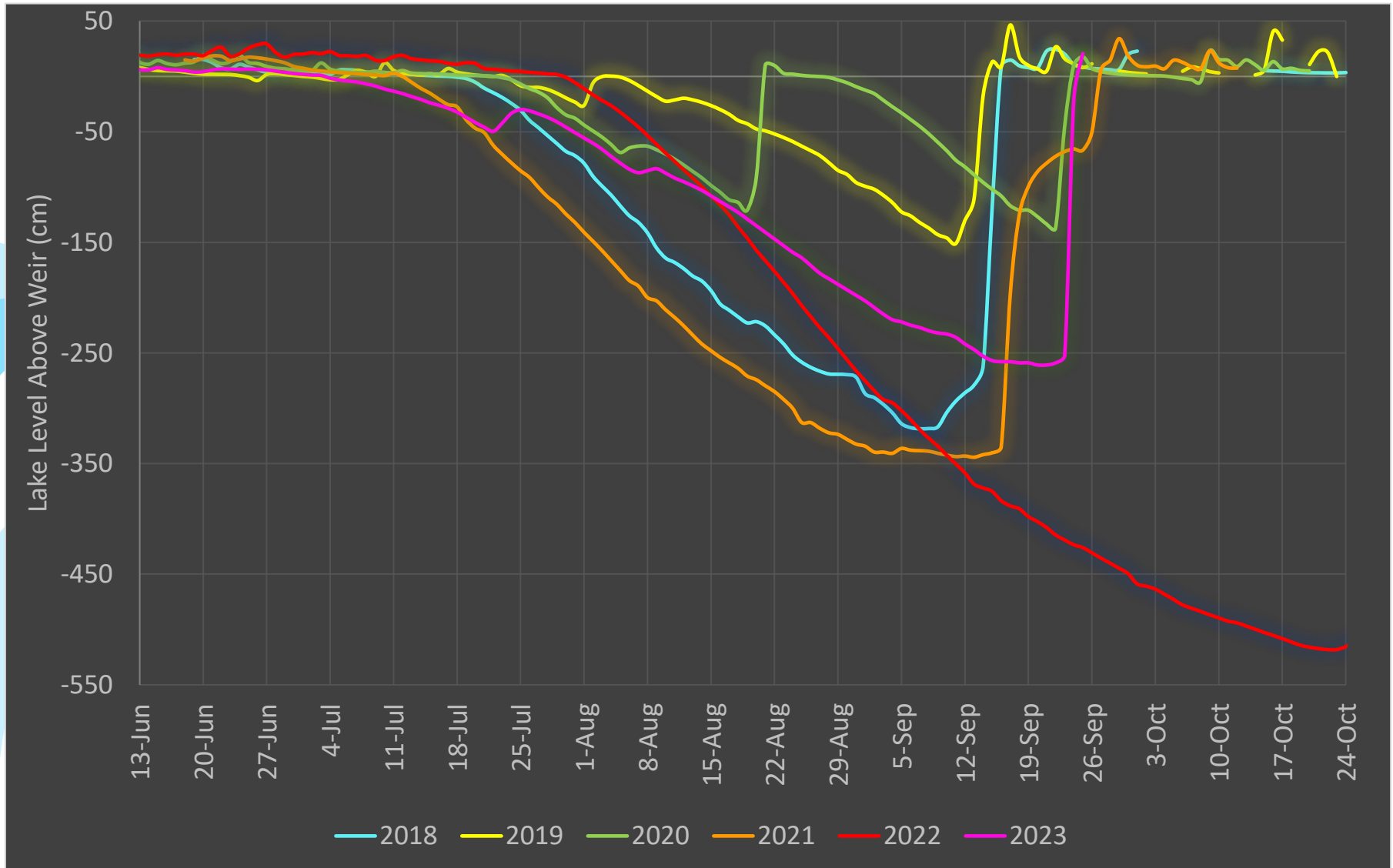
- Recent rains have made significant impacts in Chapman Watershed, but not in South Pender.
- In general, Harris and McNeill Lake fill slower than Chapman and Edwards; different watershed characteristics.
- Regulations still required in South Pender until lake levels recharge significantly.



# Harris Lake – late September

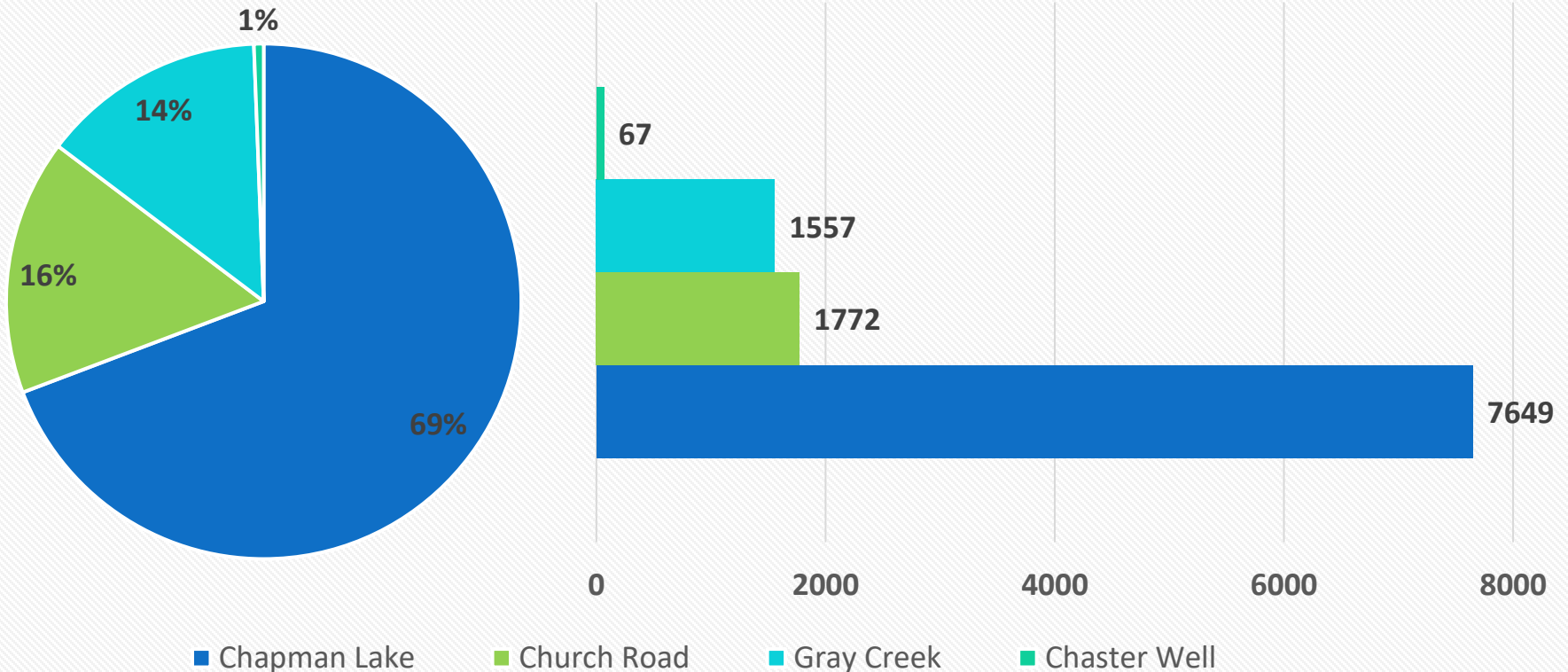


# Chapman Lake Level

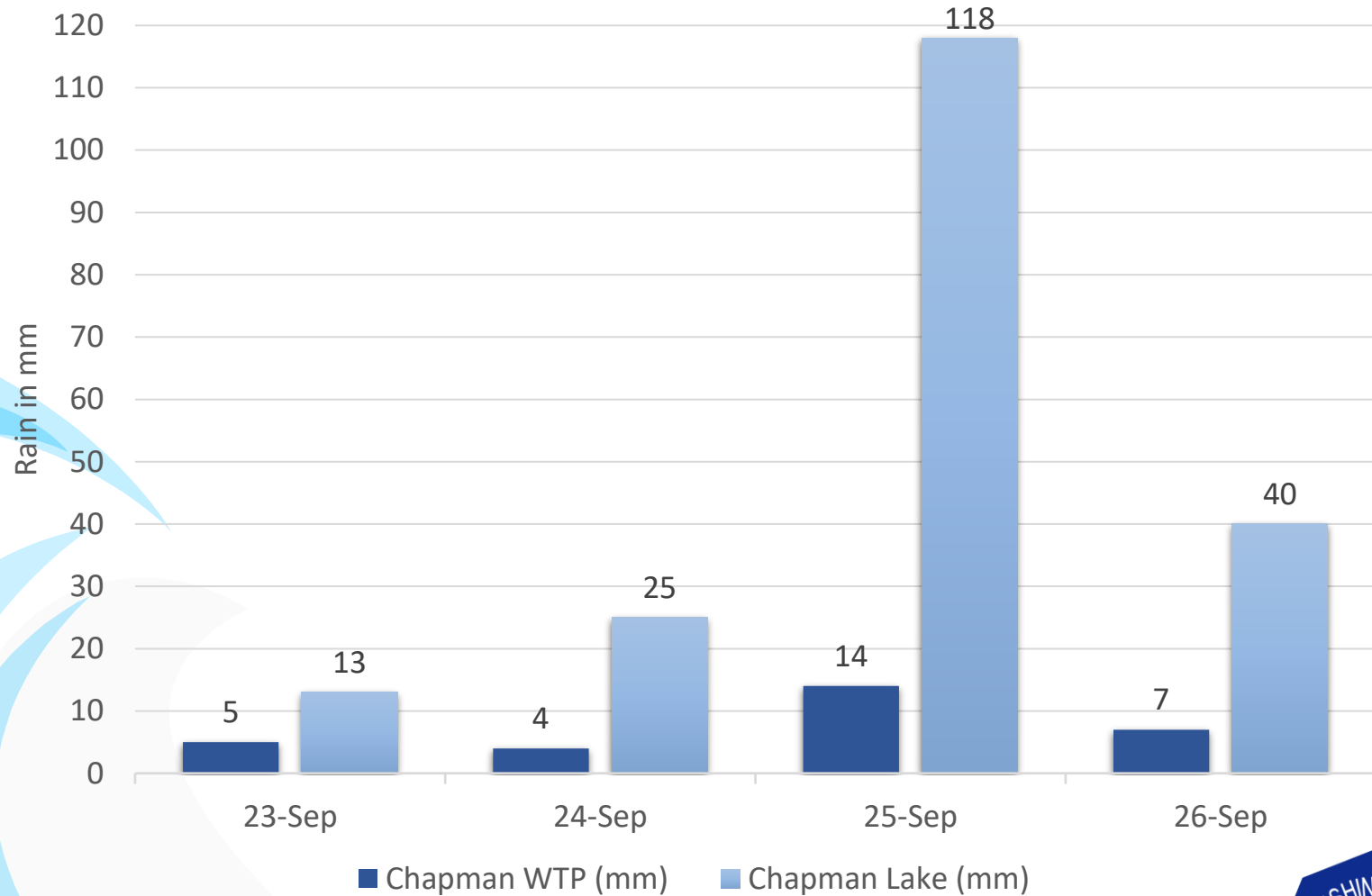


# Chapman System Supply Sources

Sept 17 – Sep 23, 11,045 m<sup>3</sup>/day average



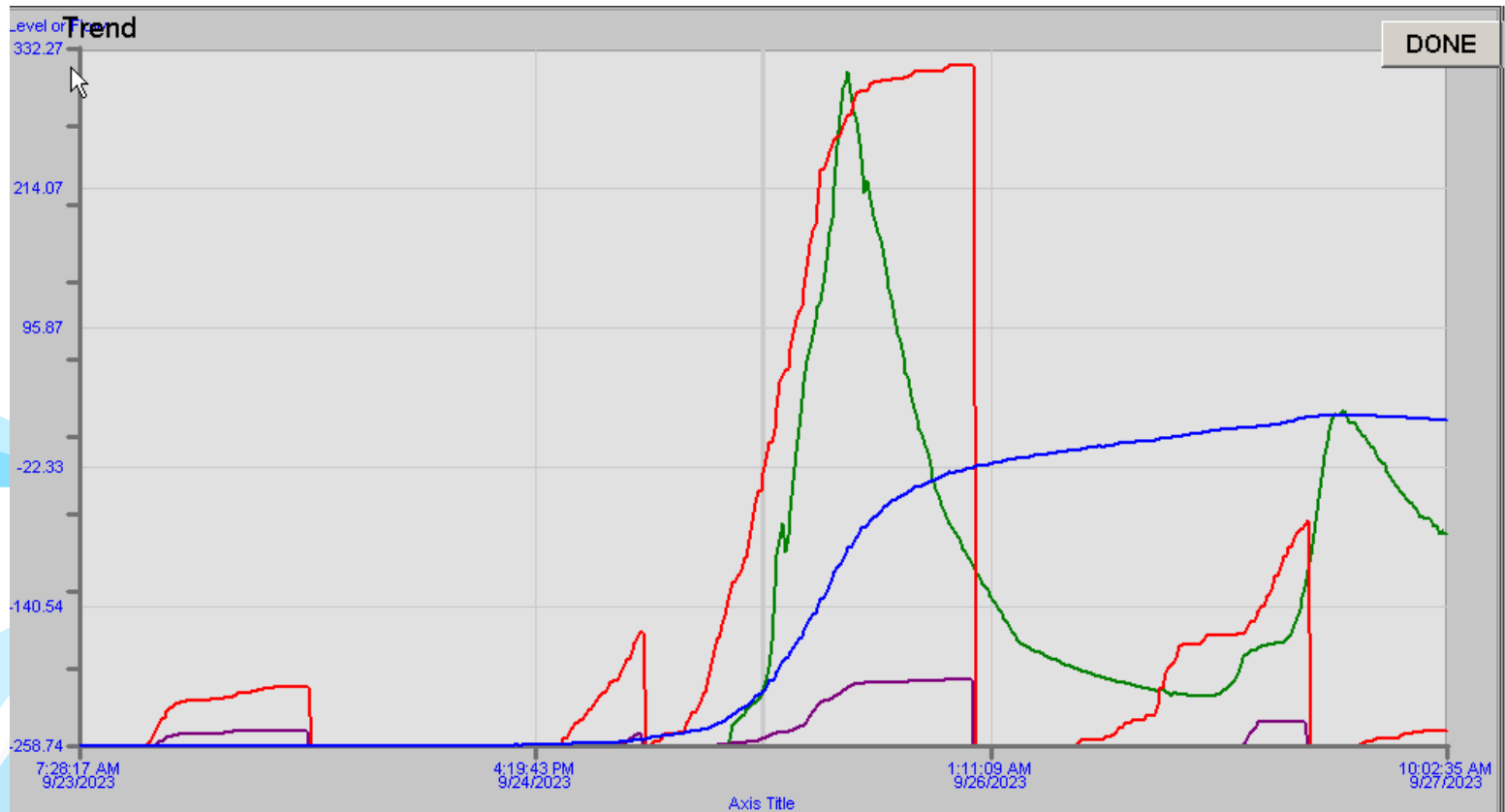
# Rain Fall Data – Chapman





# Chapman System Rain Impacts

September 23 to 27, 2023



- Red** – rain fall at Chapman Lake [scale 0 to 125mm]
- Blue** – Chapman Lake level [scale -270cm to 330cm]
- Green** – Chapman Creek Flow [scale 0 to 33,000L/sec]
- Purple** – rain fall at Chapman WTP [scale 0-125mm]



# Stage 1 – what to know

- As a result of significant rains, Chapman Lake level is now flowing over the weir.
- Stage 1 in place from May 1 to September 30 each year (Bylaw 422).
- If rains continue, Stage 1 may be lifted.
- Monitoring of lake level and creek flow will continue, if watershed stops contributing and lake level drops (no more rain), conservation regulations may be required again.



# Church Road Update

- Sine wave filters were installed yesterday, and testing will commence today.
- Working with the Province and Hydrogeologists to determine, if required, when is the best time to conduct the 72hr pumping test on Church Rd and Soames wells.



# Environmental Flow Needs

## Chapman Creek

- Pink and Coho are now in Chapman Creek and fish surveys continue.
- Work is being undertaken to develop further monitoring methods
- The Province has indicated that this data will be required for future EFN reduction requests.

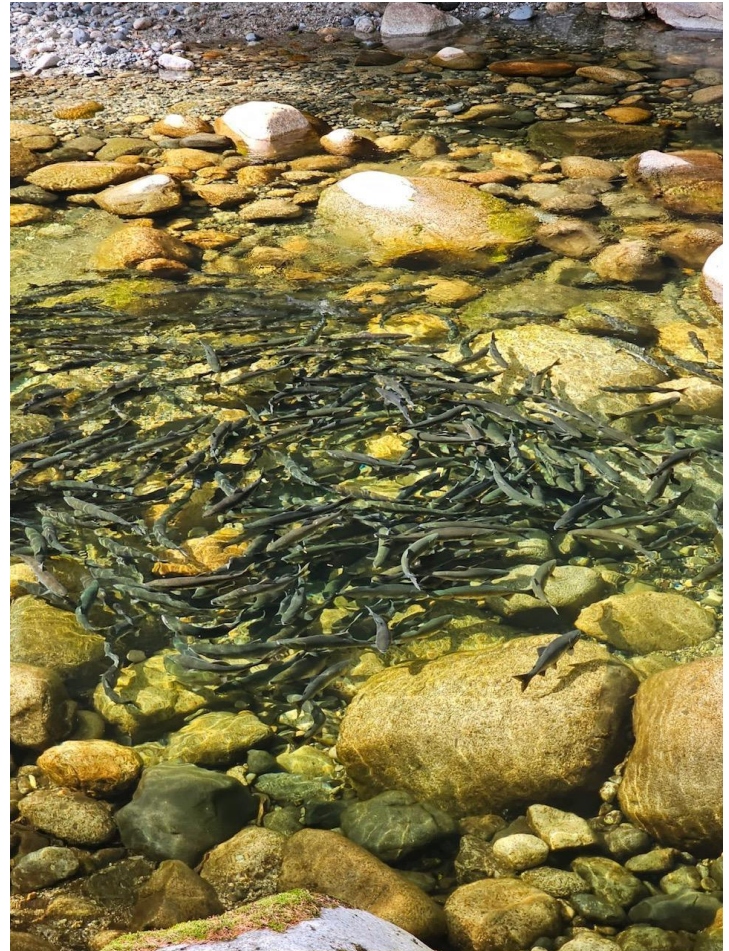


Photo credit: shíshálh Nation



# Leak Resolution

- Water meters support infrastructure efficiency by detecting leaks.
- Based on May data, 349 leak letters were sent to properties whose water meter flagged continuous flow (aka leak).
- By the end of June, 110 of those properties had resolved their leak.
- On average, a property with a leak uses 2,500 LPD more water than a property without a leak. The water saved by resolving these leaks in June, was close to 23 million litres, or about 2 days of water during Stage 2 and 3.



# Water Regulation Enforcement

- In Stages 1 to 3, Bylaw Officers issued 21 direct communications with properties, and conducted 27 in-person site visits.
- Bylaw is currently reviewing enforcement actions for Stage 4 violations.
- In September, 6 properties with large leaks were issued Shut-off Notices. With Bylaw's support, the leaks have been resolved, or are currently being repaired.



# Learn more

- For current information on water supply and water conservation regulations, visit [www.scrd.ca/water-updates](http://www.scrd.ca/water-updates)
- The next scheduled water supply update will be **October 12, 2023**

## Chapman Lake Water Storage Level

100%

Last updated: Sep 26 2023

### Previous Water Storage Levels (2023)

July 3	100%	Sep 12	8%
July 10	96%	Sep 18	1%
July 17	89%	Sep 19	0.5%
July 24	82%	Sep 20	0.5%
July 31	80%	Sep 21	0%
Aug 7	65%	Sep 22	0%
Aug 14	59%	Sep 23	0%
Aug 21	45%	Sep 24	3%
Aug 28	29%	Sep 25	91%
Sep 4	16%	Sep 26	100%
Sep 11	9%		

# Questions?

