

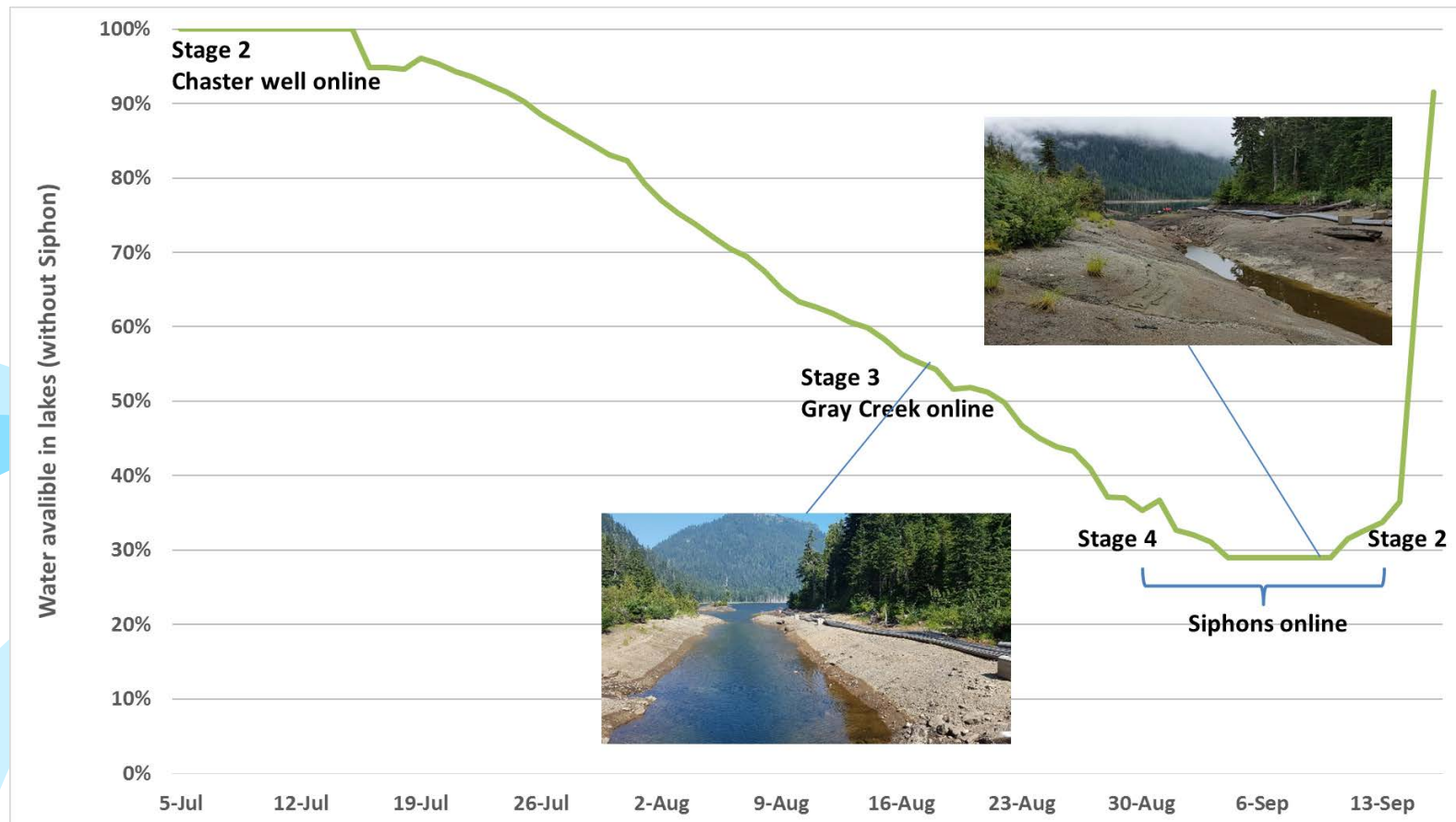
# Water Supply Update

## Infrastructure Services Committee

September 20, 2018

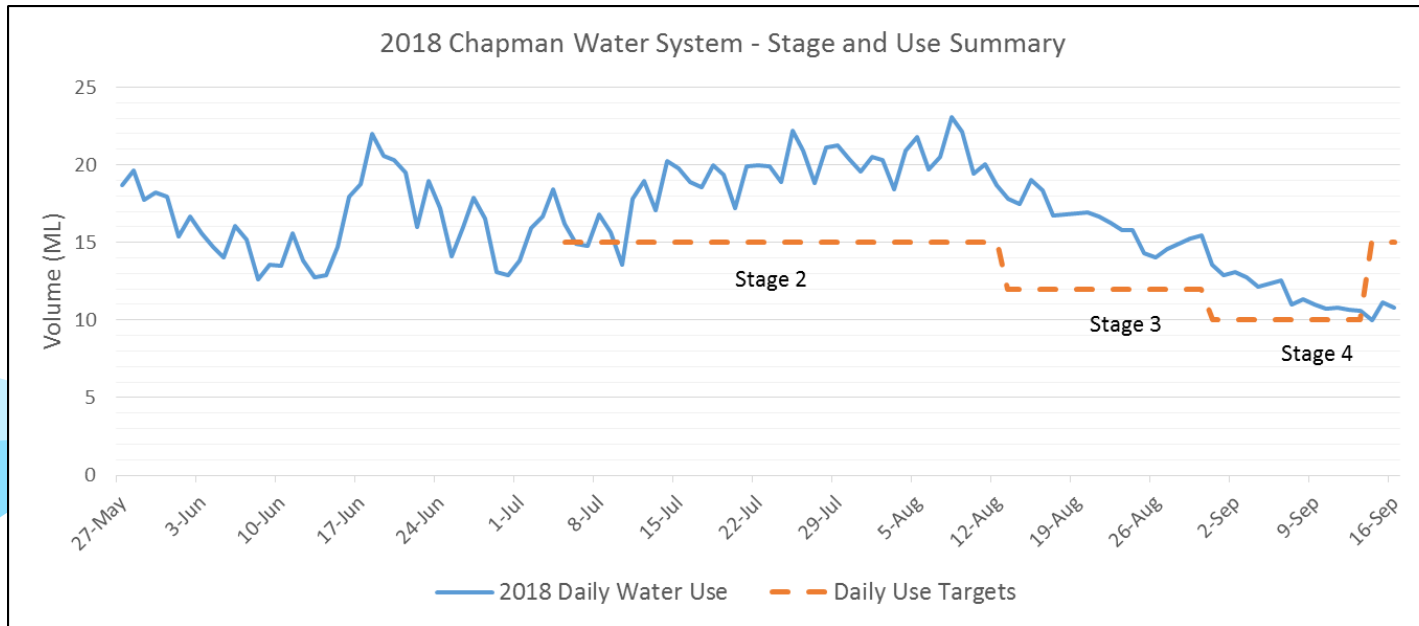


# Water Supply – July to September 2018



- Chaster well and Gray Creek provided 5-20% of total supply.
- Combined water availability in both lakes was below 30% late August.
- Siphons were online for 14 days to supplement flows from Edwards Lake.

# Community Water Demand 2018



Environmental Flow requirement of 200 l/s maintained at all times

Year	2015	2016	2017	2018
Stage 2	9-Jun	25-Jul	21-Jul	5-Jul
Stage 3	11-Jul	26-Aug	1-Sep	13-Aug
Stage 4	13-Aug	--	3-Oct	31-Aug
Return to Stage 2	8-Sep	19-Sep	28-Oct	14-Sep





# Comprehensive Regional Water Plan

## 4 Projects to increase water supply:

- Universal Metering
- Chapman Lake Infrastructure Improvement Project
- Groundwater Investigation
- Water Reservoir



# Universal Water Metering

- Installations
  - Phase 1: North and South Pender Harbour – Completed (2015)
  - Phase 2: Other Rural Electoral Areas – Completed (2018)
  - Phase 3: District of Sechelt / shíshálh Nation (report on today's agenda)
- Water savings thus far:
  - Contributed to 1430 private leaks resolved
  - Saving approximately 3,700,000 litres per day all areas
  - 437 active private side water leaks (Sept 2018)



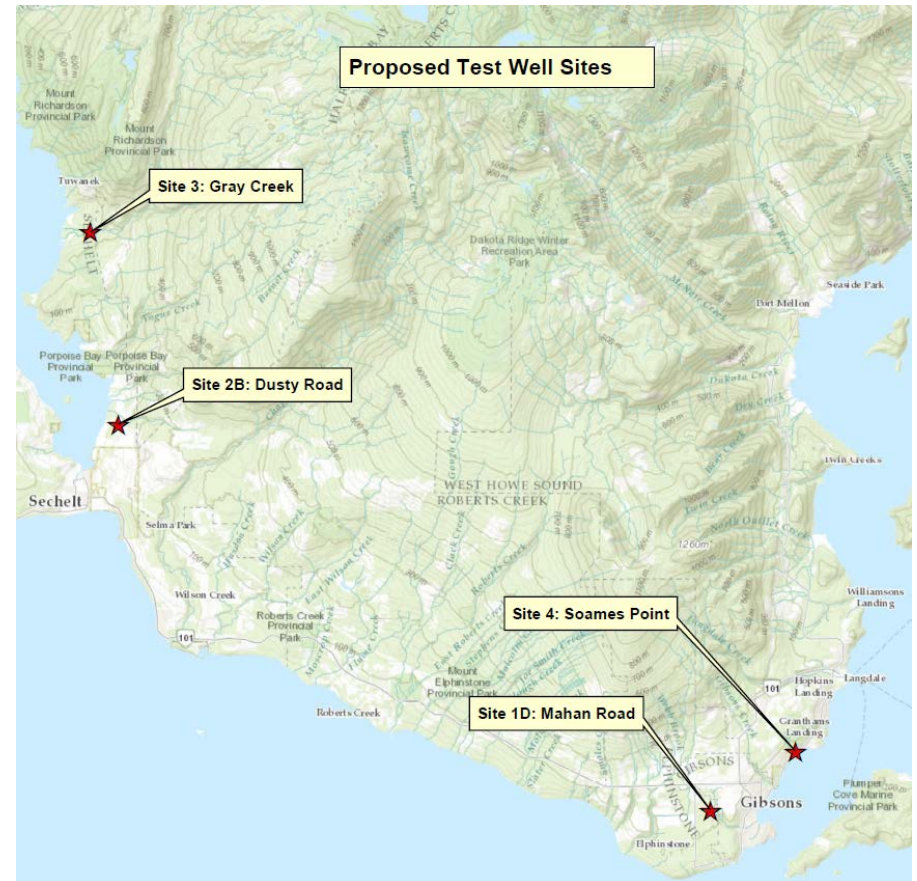
# Chapman Lake Infrastructure Improvement Project

- Applied for grant Canada Infrastructure Program - Green Infrastructure.
- Spring 2019: Provincial Decisions expected on Park Use Permit and Water Licence
- Summer 2019: construction
- Summer 2020: fully operational
- Commitment for ongoing environmental assessments and monitoring



# Groundwater Investigation

- 2017: Phase 1: Completed desk top study
- 2018: Phase 2: Test drilling on 4 sites to determine feasibility
- Phase 3: Develop wells (incl. associated infrastructure and permitting)





# Phase 2: Test Wells

- Objectives:  
Determining maximum sustainable yield
- September 17-30, drilling test wells
  - 3-4 days per site
  - Door to door correspondence in neighborhoods
- Early October, initiate testing wells:
  - Pumping high volumes of water for 48-72 hrs per site
  - Monitoring stations set up in surrounding wells



# Raw Water Reservoir

Feasibility Study (Summer 2018 onwards):

- Selection and assessment of potential locations
  - Regulatory framework
    - Ecologic
    - Hydrology
    - Contamination
    - Public Safety
    - Water Quality for human consumption
  - Preliminary design
  - Costs (construction and operation)



# Projected Timelines

Project	Feasibility confirmed	Authorizations received (incl. land ownership)	Commence Construction	Commissioning
Chapman Lake infrastructure Improvement	Confirmed	Spring 2019	Summer 2019	Late 2019
Groundwater Investigation	Early 2019	2020-2022	2021-2022	2021-2022
Raw Water Reservoir	2019	2022-2024	2025-2026	2026-2027



# Current Policy Development

- Water Sourcing Policy
  - Framework approved April 2018
  - Finalized Water Sourcing Policy targeted for Q2 2019
- Drought Management Plan
  - Annual review and updates Q2 2019
- Review Bulk Water Agreement – Town of Gibsons
  - Report October 11, 2018



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