



Making a difference...together

SAANICH PENINSULA WATER COMMISSION
 Notice of Meeting on **Thursday, July 20, 2023** immediately following the
Saanich Peninsula Wastewater Commission meeting
 Meeting Room, Sidney Community Safety Building (Fire Hall),
 2245 Oakville Ave, Sidney BC

For members of the **public who wish to listen to the meeting** via telephone please call **1-833-353-8610** and enter the **Participant Code 1911461 followed by #**. You will not be heard in the meeting room but will be able to listen to the proceedings.

- | | | |
|-------------------------|-----------------|----------------|
| D. Kelbert (Chair) | W. Helgason | C. Pinches |
| M. Doehnel (Vice Chair) | P. Jones | S. Shrivastava |
| S. Duncan | Z. King | R. Windsor |
| D. Halldorson | C. McNeil-Smith | |

AGENDA

- 1. TERRITORIAL ACKNOWLEDGEMENT**
- 2. APPROVAL OF AGENDA**
- 3. ADOPTION OF MINUTES3**

Recommendation: That the minutes of the March 16, 2023 meeting be adopted.

- 4. CHAIR’S REMARKS**
- 5. PRESENTATIONS/DELEGATIONS**

Delegations will have the option to participate electronically. Please complete the [online](#) application for “Addressing the Board” on our website and staff will respond with details.

Alternatively, you may email your comments on an agenda item to the Saanich Peninsula Water Commission at iwsadministration@crd.bc.ca. Requests must be received no later than 4:30 p.m. two calendar days prior to the meeting.

- 6. GENERAL MANAGER’S REPORT**
- 7. COMMISSION BUSINESS**
 - 7.1. Disaster Mitigation and Adaptation Fund Grant Application – Update.....6**

*That the Saanich Peninsula Water Commission recommends to the Capital Regional District Board:
 That staff be instructed to apply for, negotiate, and if successful, enter into an agreement, and do all such things necessary for accepting Disaster Mitigation and Adaptation grant funds and overseeing grant management for the proposed project.*

To ensure quorum, advise iwsadministration@crd.bc.ca if you cannot attend.

**Saanich Peninsula Water Commission
Agenda – July 20, 2023**

7.2. Saanich Peninsula Water Service Mid-Year Update.....10

There is no recommendation, this report is for information only.

7.3. Summary of Recommendations from Other Water Commissions15

There is no recommendation, this report is for information only.

7.4. Water Watch Report20

There is no recommendation, this report is for information only.

8. NOTICE(S) OF MOTION

9. NEW BUSINESS

10. ADJOURNMENT

Next Meeting: Thursday, September 28, 2023



MINUTES OF A MEETING OF THE Saanich Peninsula Water Commission, held Thursday, March 16, 2023 at 9:30 a.m., Sidney Community Safety Building, 2245 Oakville Ave., Sidney BC

PRESENT: Commissioners: D. Kelbert (Chair); M. Doehnel (Vice Chair); S. Duncan; D. Halldorson; C. Graham for Z. King (EP); C. McNeil-Smith; C. Pinches (EP); S. Shrivastava; R. Windsor (EP)

Staff: I. Jesney, Acting General Manager, Integrated Water Services; G. Harris, Senior Manager, Environmental Protection; J. Marr, Acting Senior Manager, Infrastructure Engineering; S. Irg, Senior Manager, Infrastructure Water Operations; J. Dales, Senior Manager, Infrastructure Wastewater Operations; J. Kelly, Manger, Capital Projects, Infrastructure Operations; D. Dionne, Administrative Coordinator, Integrated Water Services (Recorder)

Also in attendance: Dale Puskas, Director of Engineering, District of Central Saanich

REGRETS: W. Helgason; P. Jones

EP = Electronic Participation

The meeting was called to order at 9:30 am.

1. TERRITORIAL ACKNOWLEDGEMENT

The Chair provided the Territorial Acknowledgement.

2. APPROVAL OF AGENDA

MOVED by Commissioner Shrivastava, **SECONDED** by Commissioner McNeil-Smith, That the agenda be approved as circulated.

CARRIED

3. ADOPTION OF MINUTES

MOVED by Commissioner Halldorson, **SECONDED** by Commissioner McNeil-Smith, That the minutes of the January 19, 2023 Saanich Peninsula Water Commission meeting be adopted.

CARRIED

4. CHAIR'S REMARKS

The Chair made no remarks.

5. PRESENTATIONS/DELEGATIONS

There were no presentations or delegations.

6. GENERAL MANAGERS REPORT

The Acting General Manager introduced staff in the room and provided an update on the selection of the new General Manager, noting that as soon as an announcement goes out it will be communicated to all Commissions.

7. COMMISSION BUSINESS

7.1. Saanich Peninsula Water Service Projects and Initiatives Update

J. Marr provided a summary of the report and staff responded to questions from the Commission regarding:

- Project 21-05 Phase 1 and 2 – First Nations water service as it relates to Tsartlip First Nation, which is currently provided through the Central Saanich distribution system. Once the First Nations water service is in place, the Regional Water Supply Service will reimburse First Nations for the distribution, as it does with municipalities.
- Project 22-03 Keating Cross Road water main project. Design is complete through the consultant and has been approved by Capital Regional District (CRD).
- Project 23-05 Bear Hill tank/reservoir repairs. Engineering assessment is timed with the regular maintenance to minimize the number of times the tank needs to be taken offline. There are preemptive plans to repair joints on the inside the tank while it is offline.

The Chair expressed his appreciation of the visual depiction of the projects and that it is effective in providing the members with a progress report.

Staff responded to a question regarding other projects in the service and noted that, while there are many projects, the choice for presenting these projects over others is mainly due to them being more major projects. The complete list of projects can be found in the budget documents.

Discussion ensued regarding project delays. Staff indicated that delays are generally due to lack of staffing, contractor resources and slow supply chain availability. The Chair would like to see a timeline of the delays to see which projects are being predicted farther and farther into the future. He noted that, as budget decisions are being made, there is a need to be conscious that by the time the projects go to tender the prices could be very inflated.

Staff also stated that they are buying material ahead of time and storing it where possible. The challenges are universal with material shipments and as projects get delayed, other projects get re-prioritized.

There is no recommendation, this report is for information only.

7.2. Summary of Recommendations from Other Water Commissions

There is no recommendation, this report is for information only.

7.3. Water Watch Report

I. Jesney spoke to the item, noting that Sooke Lake was not spilling over the dam yet, however as of last night it was within four inches of spilling over. There are no concerns with water volume.

Staff review the data in the water watch report continually. Other data could be obtained but would be a considerable amount of work to do so. Demand data plays a role in water conservation strategies and long-term demand management planning.

There is no recommendation, this report is for information only.

8. NOTICE(S) OF MOTION

There were none.

9. NEW BUSINESS

There was none.

10. ADJOURNMENT

MOVED by Commissioner Halldorson, **SECONDED** by Commissioner Shrivastava,
That the March 16, 2023 meeting be adjourned at 10:05 am.

CARRIED

CHAIR

SECRETARY



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SPWC 23-03

**REPORT TO SAANICH PENINSULA WATER COMMISSION
MEETING OF THURSDAY, JULY 20, 2023**

SUBJECT **Saanich Peninsula Water - Disaster Mitigation and Adaptation Fund Grant Application**

ISSUE SUMMARY

To inform the Saanich Peninsula Water Commission (SPWC) of the *Disaster Mitigation and Adaptation Fund* (DMAF) grant opportunity and receive approval for Capital Regional District (CRD) staff to enter into an agreement to receive grant funds if successful.

BACKGROUND

There is an opportunity for the CRD to resubmit a grant application under Canada's Disaster Mitigation and Adaptation Fund (DMAF) program. The application includes a complete seismic resiliency upgrade to the Regional Water Transmission Main No. 4 and portions of the Saanich Peninsula Water Supply System. The scope of the project includes replacing vulnerable sections of reinforced concrete cylinder and asbestos cement pipe, constructing supply system interconnections to provide redundancy and constructing direct bulk water connections to two First Nations Reserves. The scope has been reduced slightly from previous applications as CRD was recently successful in obtaining a \$6 million grant under the *2022 Strategic Priorities Fund Intake – Canada Community-Building Fund Program* to upgrade a section of Regional Water Transmission Main No. 4 from Mt. Newton Cross Road to Highway 17. Please refer to Appendix A and the table below outlining the current scope of the eligible grant projects.

Phase	Project Type	Location	Year Constructed	Pipe Material / Size (diameter)	Length (m)
1A	Replace	SPW - McTavish Reservoir to Mills Rd.	1980	AC / 500mm dia.	3,500
1B	Replace	SPW – Mills Rd.	1980	AC / 450mm dia.	2,000
1C	Proposed	SPW – Pauquachin First Nation & Tseycum Meters	N/A	Ductile Iron / 300mm dia.	2,000
2	Replace	RWS – Main No.4 Goldstream Ave.	1972	Concrete / 1,372mm dia.	1,900
3A	Replace	RWS – Main No.4 Elk Lake to McTavish	1978	Concrete / 610 – 762mm dia.	7,000
3B	Proposed	SPW – East Saanich Rd. – Mt. Newton to Dean Park Lower Reservoir	N/A	Ductile Iron / 600mm dia.	3,000
				Total	19,400

Saanich Peninsula Water Commission – July 20, 2023
Saanich Peninsula Water - Disaster Mitigation and Adaptation Fund Grant Application 2

The total project budget is estimated at \$150 million and is to be cost-shared with the Regional Water Supply Service contributing \$60 million and the Saanich Peninsula Water Service contributing \$26.5 million. The grant could contribute the remaining \$63.5 million.

ALTERNATIVES

Alternative 1

That the Saanich Peninsula Water Commission recommends to the Capital Regional District Board:

That staff be instructed to apply for, negotiate, and if successful, enter into an agreement, and do all such things necessary for accepting *Disaster Mitigation and Adaptation* grant funds and overseeing grant management for the proposed projects.

Alternative 2

That the Saanich Peninsula Water Commission recommends to the Capital Regional District Board:

That staff be instructed not to proceed with a grant application to the *Disaster Mitigation and Adaptation Fund* for the proposed projects.

IMPLICATIONS

Financial Implications

By instructing CRD staff to apply for the *Disaster Mitigation and Adaptation Fund* grant, and if successful, enter into an agreement, up to \$63.5 million in grant funding could become available to the CRD to upgrade infrastructure and would accelerate the proposed upgrade timelines.

CONCLUSION

There is an opportunity for the Capital Regional District (CRD) to receive up to \$63.5 million in grant funding under the *Disaster Mitigation and Adaptation* grant. To be able to potentially access this grant CRD staff need to apply for, negotiate, and if successful, enter into an agreement, and do all such things necessary for accepting *Disaster Mitigation and Adaptation* grant funds and overseeing grant management for the proposed projects. The CRD has previously applied for this grant but was unsuccessful in its previous attempts.

RECOMMENDATION

That the Saanich Peninsula Water Commission recommends to the Capital Regional District Board:

That staff be instructed to apply for, negotiate, and if successful, enter into an agreement, and do all such things necessary for accepting *Disaster Mitigation and Adaptation* grant funds and overseeing grant management for the proposed projects.

Saanich Peninsula Water Commission – July 20, 2023**Saanich Peninsula Water - Disaster Mitigation and Adaptation Fund Grant Application 3**

Submitted by:	Joseph Marr, P.Eng., Acting Senior Manager, Infrastructure Engineering
Concurrence:	Ian Jesney, P. Eng., Acting General Manager, Integrated Water Services
Concurrence:	Nelson Chan, MBA, FCPA, FCMA, Chief Financial Officer
Concurrence:	Steven Carey, B.Sc., J.D., Acting General Manager, Corporate Services
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

ATTACHMENT(S)

Appendix A: 2023 Disaster and Mitigation Grant Eligible Projects Map

Disaster Mitigation and Adaptation Fund



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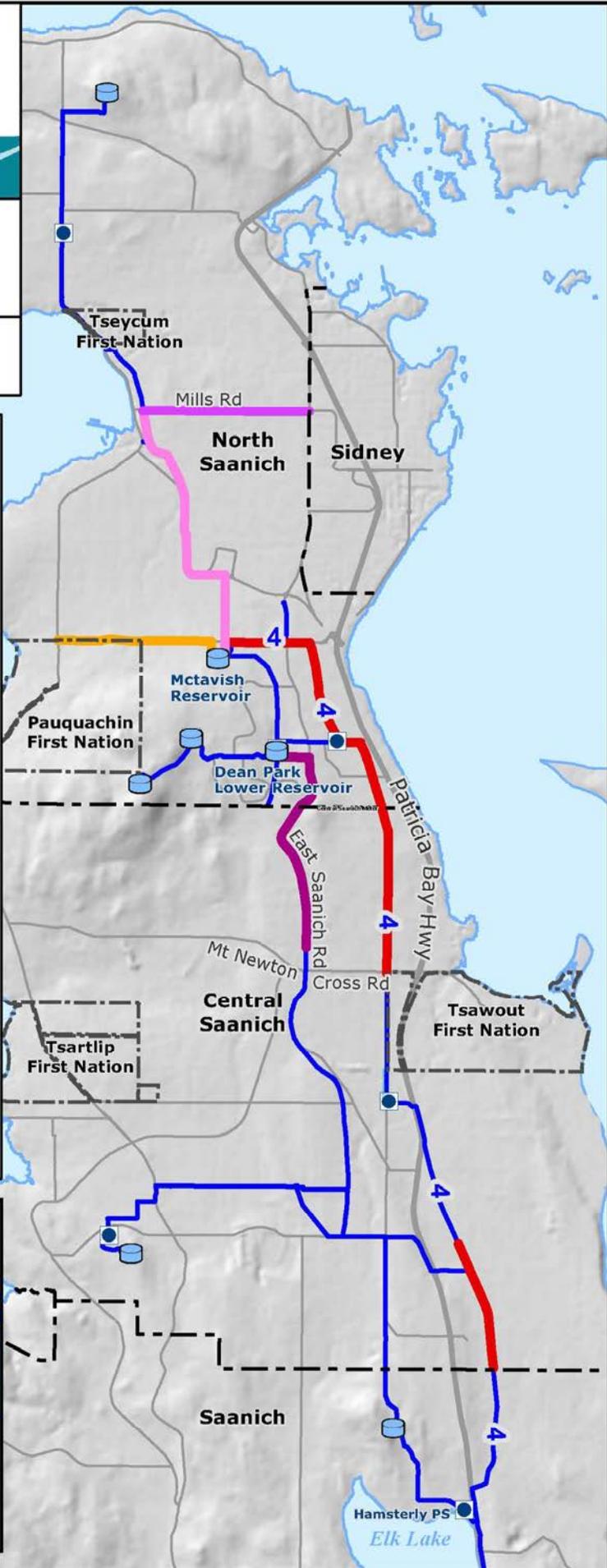
UTM Zone 10N NAD 1983



DISCLAIMER

This map is for general information only and may contain inaccuracies.
July 2023 | DisasterMitigationandAdaptationFund2023.mxd | helpdesk@crd.bc.ca

-  Existing Supply Main
-  Replace
SPW Water Main – West Saanich Road:
McTavish Reservoir to Mills Road
Phase 1A
AC \varnothing 500mm 1980 ~3,500m
-  Replace
SPW Water Main – Mills Road
Phase 1B
AC \varnothing 450mm 1980 ~2,000m
-  Proposed
Pauquachin First Nation Water Main
Pauquachin & Tseycum Meters/Connections
Phase 1C
Proposed Main ~2,000m
-  Replace
RWS Supply Main No. 4 – Goldstream Ave
Phase 2
Concrete \varnothing 1,372mm 1972 ~1,900m
-  Replace
RWS Supply Main No. 4 – Elk Lake to
McTavish (only replacing concrete sections)
Phase 3A
Concrete \varnothing 610-762mm ~1978 ~7,000m
-  Proposed
SPW Water Main – East Saanich Road:
Mt. Newton to Dean Park Lower Reservoir
Phase 3B
Proposed Main ~3,000m





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SPWWC 23-02

**REPORT TO SAANICH PENINSULA WATER COMMISSION
MEETING OF THURSDAY, JULY 20, 2023**

SUBJECT **Saanich Peninsula Water Service Mid-Year Update**

ISSUE SUMMARY

To provide the Saanich Peninsula Water Commission with a mid-year update on the Saanich Peninsula Water operations and capital program.

BACKGROUND

Capital Program Update

The Saanich Peninsula Water (SPW) capital program reflects the planned capital spending for the next five years and forms part of the annual service budget that is approved in March each year by the Capital Regional District (CRD) Board. In 2023, there were 13 capital projects identified with an expenditure estimated at \$5,336,000. The status of the major projects progressing in 2023 is detailed in Appendix A. Additional smaller projects will also progress based on criticality and resourcing.

Operations Update

The Saanich Peninsula and Gulf Islands Operations Team operates and maintains the Saanich Peninsula Water System which includes a routine operational and preventative maintenance program and corrective (unplanned) maintenance program. The 2023 annual operating budget is \$1.52 million and is on target for a marginal surplus at year end.

Reservoir Maintenance Program:

There are seven water reservoirs in the Saanich Peninsula Water System. Reservoirs are drained, cleaned, and inspected typically on a five-year cycle. In 2023, two reservoirs, Bear Hill Reservoir and Dawson Reservoir facilities, were scheduled for maintenance. Both sites required corrective maintenance which were primarily related to minor concrete tank leak repairs.

Bulk Water Meter Reading

There are 15 bulk water meters that service the Saanich Peninsula Water System that are used for water billing for Sidney, Central Saanich, North Saanich and Agriculture Canada. Meters are read monthly by operational staff and analyzed for anomalies.

Pressure Control Stations:

There are 15 pressure regulating stations that control water system pressures on the Saanich Peninsula Water System. Ongoing routine maintenance is performed annually on the control valves that can include a complete teardown and rebuild of the valve annually depending on the criticality of the station. It is projected that all maintenance will be completed by year end.

Saanich Peninsula Water Commission – July 20, 2023
Saanich Peninsula Water Service Mid-Year Update

2

Operational Annual Provisional Items:

The annual provisional accounts are in the service's five-year capital plan and were established to provide funding for unplanned repairs/replacements that are outside of the operating budget contingencies. Unplanned repairs and replacements at mid-year are identified in the table below.

Project Number	Project Title	Project Budget	Status
23-02	Pump station, metering station and control valve repairs and replacements.	\$80,000	Project 1: Bear Hill Meter Replacement (\$25,000) Project 2: Hamsterly Pump Station VFD capacitor replacement (\$12,000) Project 3: Hamsterly VFD fan replacement (\$13,000)
23-03	Transmission main, storage tank repairs and replacements; annual budget.	\$80,000	No projects identified to date.

CONCLUSION

This report provides the Saanich Peninsula Water Commission with operational and capital program updates for the SPW Service.

RECOMMENDATION

There is no recommendation, this report is for information only.

Submitted by:	Joseph Marr, P.Eng., Acting Senior Manager, Infrastructure Engineering
Submitted by:	Jason Dales, B.Sc., WD IV, Senior Manager, Wastewater Infrastructure Operations
Concurrence:	Ian Jesney, P. Eng., Acting General Manager, Integrated Water Services
Concurrence:	Larisa Hutcheson, P. Eng., General Manager, Parks & Environmental Services
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

ATTACHMENT(S)

Appendix A: Saanich Peninsula Water Service Capital Program – Current Status of Active Projects.

Appendix B: Saanich Peninsula Water Supply – Significant Project Locations

Appendix A

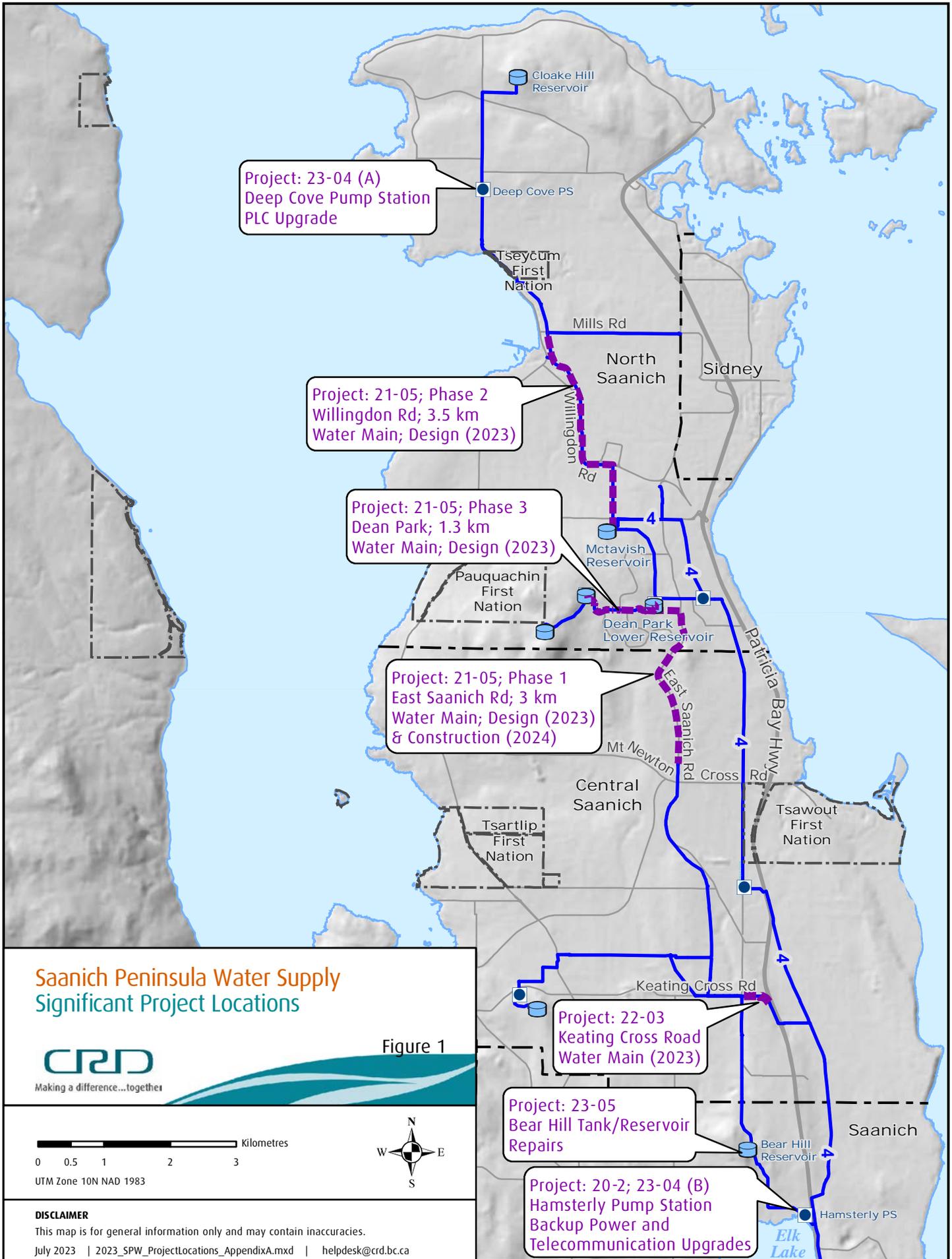
Saanich Peninsula Water Capital Program – Current Status of Active Projects

Project Number	Project Title	Total Budget	Status
18-04	Post Disaster Emergency Water Supply	\$1,200,000	This is an ongoing program with the following items completed in 2023. Three portable laboratories were procured for post disaster water quality testing, one will be stored on Saanich Peninsula. One hundred (100) meters of HDPE water main was procured for temporary emergency repairs.
20-05	Hamsterly Pump Station Backup Power Generator	\$1,100,000	This project was tendered in 2021 but cancelled due to price escalation. Drawings and specifications are ready for retendering but recent cost estimates suggest even further market escalation is expected. Staff are currently re-evaluating the cost benefit of pursuing this project at this time.
21-05	SPW System Upgrade and Expansion	\$14,700,000	This program will consist of various projects to improve SPWS resiliency and redundancy. An RFP for an Engineering Consultant is currently open and will include design and construction services for the Bear Hill extension, as well as preliminary design services for the Peninsula Trunk Main Upgrade (McTavish Tank to Mills Road) and Dean Park watermain replacement (Dean Park Lower to Dean Park Middle).
22-03	Keating Cross Road Watermain	\$1,000,000	This watermain replacement of approximately 500m of 500mm diameter ductile iron pipe will be completed as part of the Ministry of Transportation and Infrastructure flyover project.
23-04	RTU & PLC Upgrade and Replacement	\$140,000	Planning work has initiated for upgrades to the PLC at Deep Cove pump station and upgrades to the telecommunications from Hamsterly PS.
23-05	Bear Hill Tank Repairs	\$250,000	Engineering inspections and concrete crack remediation work was completed in Q1 of 2023. The budget was assessed based on unknown

Appendix A

Project Number	Project Title	Total Budget	Status
			condition, but repair costs were much lower than available budget. Most of this budget will be returned to capital reserves but future inspections will continue to monitor this location.

- Project Numbers refer to project numbers from the 2023 Capital Plan.
- The projects listed above are not inclusive of all capital projects currently underway. Smaller scale projects have been omitted from this list for clarity.





Capital Regional District
HOTSHEET AND ACTION LIST
Juan de Fuca Water Distribution Commission

Tuesday, May 2, 2023

12 PM

Goldstream Meeting Room
 479 Island Highway
 Victoria, BC

The following is a quick snapshot of the FINAL Juan de Fuca Water Distribution Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

That the minutes of the March 7, 2023 meeting be adopted.

CARRIED

7. COMMISSION BUSINESS

The Following Items Were Received for Information

- 7.1 Small Diameter Pipe Replacement Program Update
- 7.2 Summary of Recommendations from Other Water Commissions
- 7.3 Water Watch Report

CARRIED



Capital Regional District
HOTSHEET AND ACTION LIST
Juan de Fuca Water Distribution Commission

Tuesday, July 4, 2023

12 PM

Goldstream Meeting Room
479 Island Highway
Victoria, BC

The following is a quick snapshot of the FINAL Juan de Fuca Water Distribution Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

That the minutes of the May 2, 2023 meeting be adopted.

CARRIED

7. COMMISSION BUSINESS

The following reports were received for information.

- 7.1 Juan de Fuca Water Distribution Service Mid-Year Update
- 7.2 Summary of Recommendations from Other Water Commissions
- 7.3 Water Watch Report



Capital Regional District

HOTSHEET AND ACTION LIST

Regional Water Supply Commission

Wednesday, April 19, 2023

11:30 AM

6th Floor Boardroom
625 Fisgard Street
Victoria, BC

The following is a quick snapshot of the FINAL Regional Water Supply Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

That the minutes of the February 15, 2023 meeting be adopted.

CARRIED

7. COMMISSION BUSINESS

7.1 Bylaw No. 4521 Water Supply Local Service Area Establishment Bylaw Amendment

Recommendation: The Regional Water Supply Commission recommends to the Capital Regional District Board:

1. That Bylaw No. 4541, "Capital Regional District Water Supply Local Service Area Establishment Bylaw No. 1, 1997, Amendment Bylaw No. 3, 2023", be introduced and read a first, second, and a third time.
2. That Bylaw No. 4541 be referred to the service participants for approval by way of council and electoral area director consent on behalf, and that if successful, Bylaw No. 4541 be referred to the Inspector of Municipalities for approval.

CARRIED

THE FOLLOWING ITEMS WERE RECEIVED FOR INFORMATION

- 7.2 Potential Impacts of Climate Change on Regional Water Supply Operations
- 7.3 Summary of Recommendations from Other Water Commissions
- 7.4 Water Watch Report



Capital Regional District HOTSHEET AND ACTION LIST Regional Water Supply Commission

Wednesday, May 17, 2023

11:30 AM

CRD Boardroom
625 Fisgard Street
Victoria, BC

The following is a quick snapshot of the FINAL Regional Water Supply Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

That the minutes of the April 19, 2023 meeting be adopted.

CARRIED

8. COMMISSION BUSINESS

8.1 Bylaw No. 4099 – Water Conservation Amendment

Recommendation: *The Regional Water Supply Commission recommends to the Capital Regional District Board:*

1. That Bylaw No. 4549, "Capital Regional District Water Conservation Bylaw No. 1, 2016, Amendment Bylaw No. 3, 2023", be introduced and read a first, second, and third time; and
2. That Bylaw No. 4549 be adopted.
3. That Bylaw No. 4553 "Capital Regional District Ticket Information Authorization Bylaw 1990, Amendment Bylaw No. 76, 2023" be introduced and read a first, second, and third time; and
4. That Bylaw No. 4553 be adopted.

CARRIED

8.2 Greater Victoria Drinking Water Quality – 2022 Annual Report

Recommendation: *The Regional Water Supply Commission recommends to the Capital Regional District Board:*

That the Greater Victoria Drinking Water Quality 2022 Annual Report be approved.

CARRIED

8.4 Proposed Regional Water Supply Service Development Cost Charge Program and Bylaw

Recommendation: *That the Regional Water Supply Commission direct Capital Regional District staff to proceed with the next phases of developing and implementing a Development Cost Charge program and bylaw.*

The following were received for information:

- 8.3 Water Quality Summary Report – January to March 2023**
- 8.5 Summary of Recommendations from Other Water Commissions**
- 8.6 Water Watch Report**

CAPITAL REGIONAL DISTRICT - INTEGRATED WATER SERVICES

Water Watch

Issued July 10, 2023

Water Supply System Summary:

1. Useable Volume in Storage:

Reservoir	July 31 5 Year Ave		July 31/22		July 9/23		% Existing Full Storage
	ML	MIG	ML	MIG	ML	MIG	
Sooke	76,057	16,733	82,457	18,141	79,345	17,456	85.6%
Goldstream	6,887	1,515	9,479	2,085	8,922	1,963	90.0%
Total	82,945	18,248	91,936	20,226	88,267	19,419	86.0%

2. Average Daily Demand:

For the month of July	218.1 MLD	47.99 MIGD
For week ending July 09, 2023	219.6 MLD	48.31 MIGD
Max. day July 2023, to date:	249.9 MLD	54.97 MIGD

3. Average 5 Year Daily Demand for July

Average (2018 - 2022)	202.4 MLD ¹	44.52 MIGD ²
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¹MLD = Million Litres Per Day ²MIGD = Million Imperial Gallons Per Day

4. Rainfall July:

Average (1914 - 2022):	22.3 mm
Actual Rainfall to Date	0.0 mm (0% of monthly average)

5. Rainfall: Sep 1- Jul 9

Average (1914 - 2022):	1,595.9 mm
2022/2023	1,021.8 mm (64% of average)

6. Water Conservation Action Required:

CRD's Stage 1 Water Conservation Bylaw is now in effect through September 30, 2023
Visit our website at www.crd.bc.ca/water for scheduling information.

If you require further information, please contact:

Ian Jesney, P. Eng.
Acting General Manager, CRD - Integrated Water Services
or
Glenn Harris, Ph D., RPBio
Senior Manager - Environmental Protection

Capital Regional District Integrated Water Services
479 Island Highway
Victoria, BC V9B 1H7
(250) 474-9600

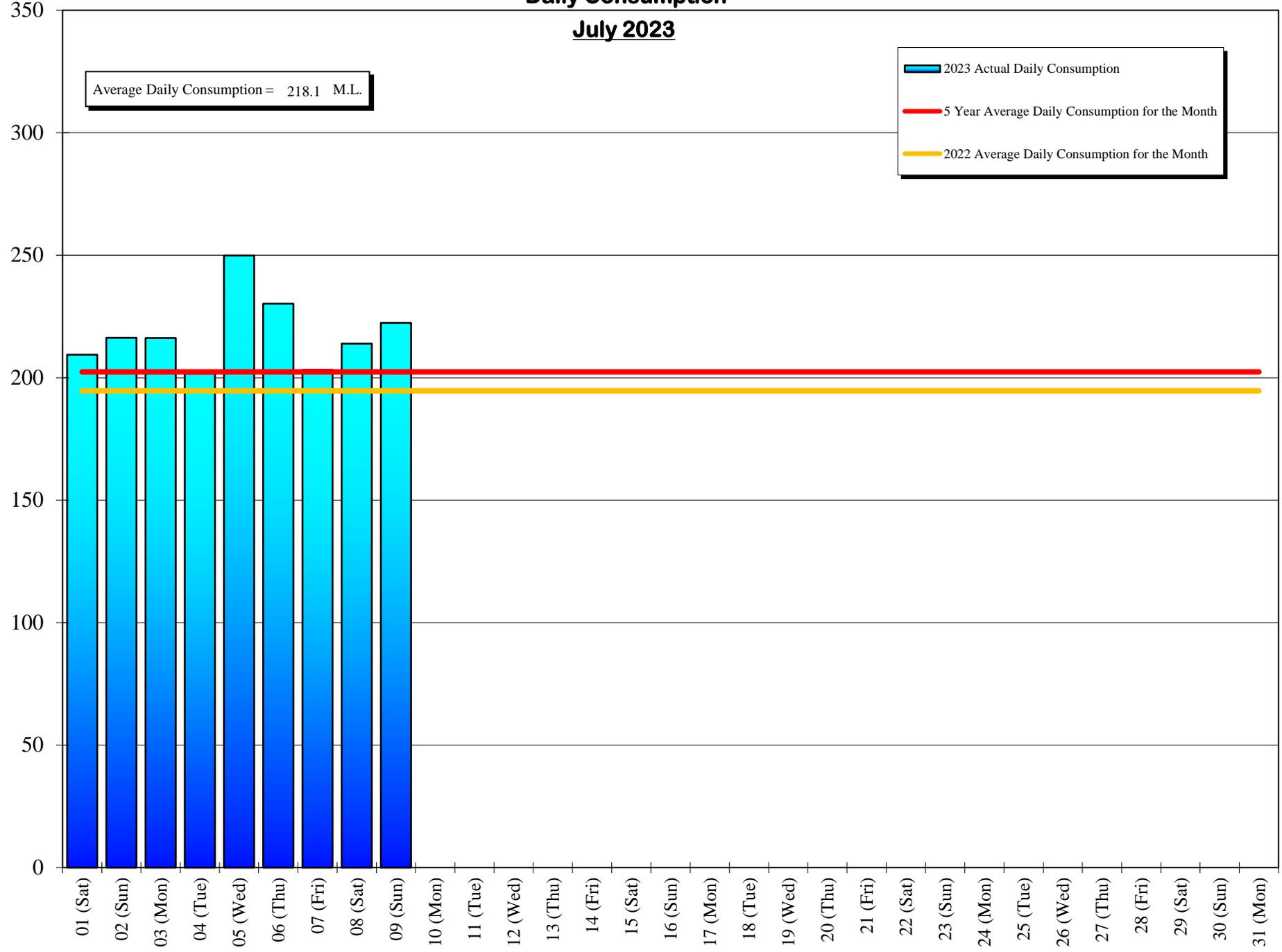
Daily Consumption

July 2023

Average Daily Consumption = 218.1 M.L.

█ 2023 Actual Daily Consumption
█ 5 Year Average Daily Consumption for the Month
█ 2022 Average Daily Consumption for the Month

Consumption (Million Litres)



Day

Daily Consumptions: - July 2023

Date	Total Consumption		Air Temperature @ Japan Gulch		Weather Conditions	Precipitation @ Sooke Res.: 12:00am to 12:00am			
	(ML) ¹	(MIG) ²	High (°C)	Low (°C)		Rainfall (mm)	Snowfall ³ (mm)	Total Precip.	
01 (Sat)	209.4		46.1	23	12	Sunny	0.0	0.0	0.0
02 (Sun)	216.3		47.6	25	13	Sunny	0.0	0.0	0.0
03 (Mon)	216.2		47.6	28	11	Sunny	0.0	0.0	0.0
04 (Tue)	201.7	<=Min	44.4	31	14	Sunny / Hazy	0.0	0.0	0.0
05 (Wed)	249.9	<=Max	55.0	32	15	Sunny	0.0	0.0	0.0
06 (Thu)	230.2		50.6	30	16	Sunny	0.0	0.0	0.0
07 (Fri)	203.2		44.7	26	14	Sunny	0.0	0.0	0.0
08 (Sat)	213.9		47.1	24	12	Sunny	0.0	0.0	0.0
09 (Sun)	222.4		48.9	26	12	Sunny	0.0	0.0	0.0
10 (Mon)									
11 (Tue)									
12 (Wed)									
13 (Thu)									
14 (Fri)									
15 (Sat)									
16 (Sun)									
17 (Mon)									
18 (Tue)									
19 (Wed)									
20 (Thu)									
21 (Fri)									
22 (Sat)									
23 (Sun)									
24 (Mon)									
25 (Tue)									
26 (Wed)									
27 (Thu)									
28 (Fri)									
29 (Sat)									
30 (Sun)									
31 (Mon)									
TOTAL	1963.2 ML	431.92 MIG					0.0	0	0.0
MAX	249.9	54.97	32	16			0.0	0	0.0
AVG	218.1	47.99	27.2	13.2			0.0	0	0.0
MIN	201.7	44.37	23	11			0.0	0	0.0

1. ML = Million Litres

2. MIG = Million Imperial Gallons

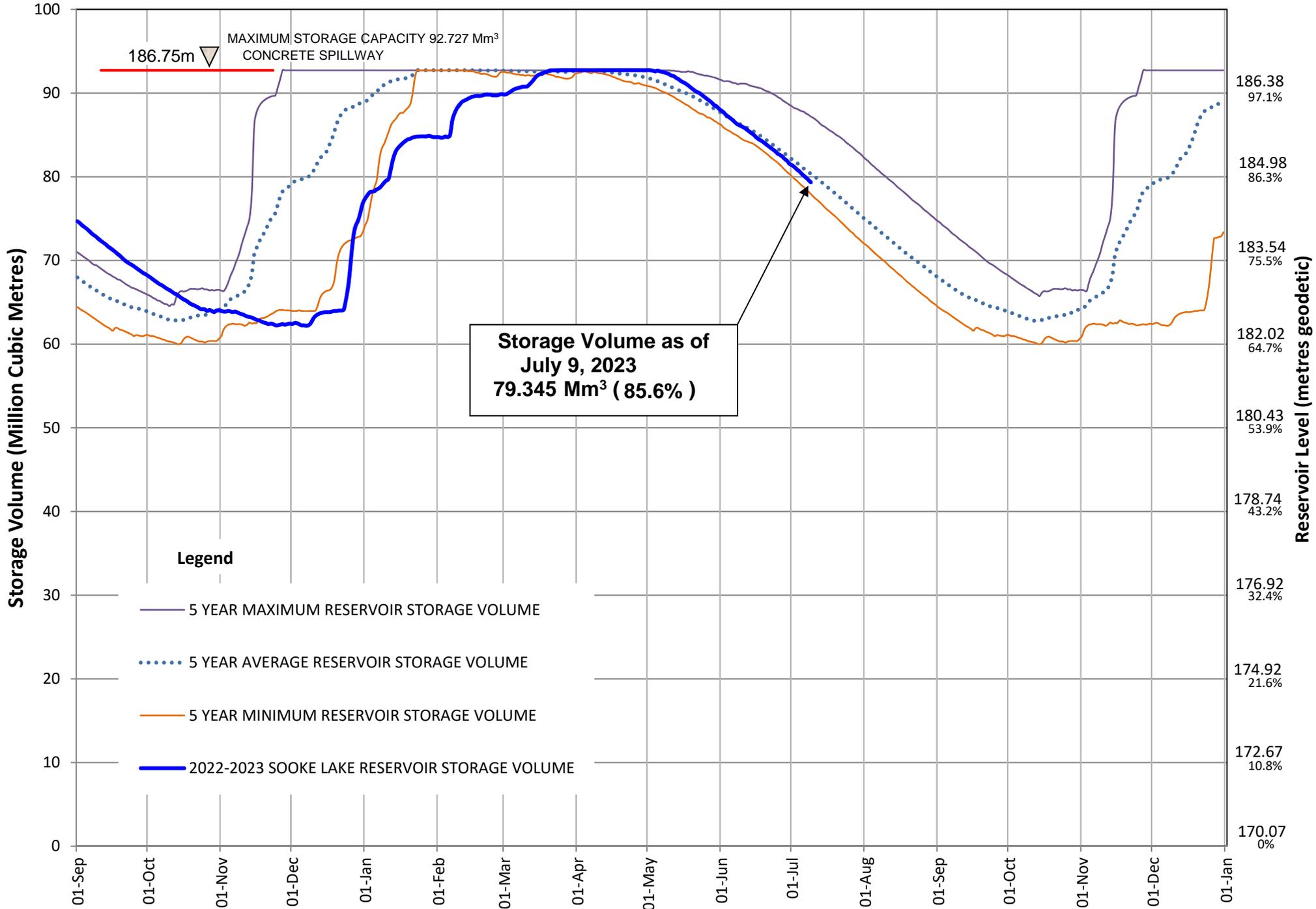
3. 10% of snow depth applied to rainfall figures for snow to water equivalent.

Average Rainfall for July (1914-2022)	22.3 mm
Actual Rainfall: July	0.0 mm
% of Average	0%
Average Rainfall (1914-2022): Sept 01 - Jul 09	1,595.9 mm
Actual Rainfall (2022/23): Sept 01 - Jul 09	1,021.8 mm
% of Average	64%

Number days with precip. 0.2 or more
0

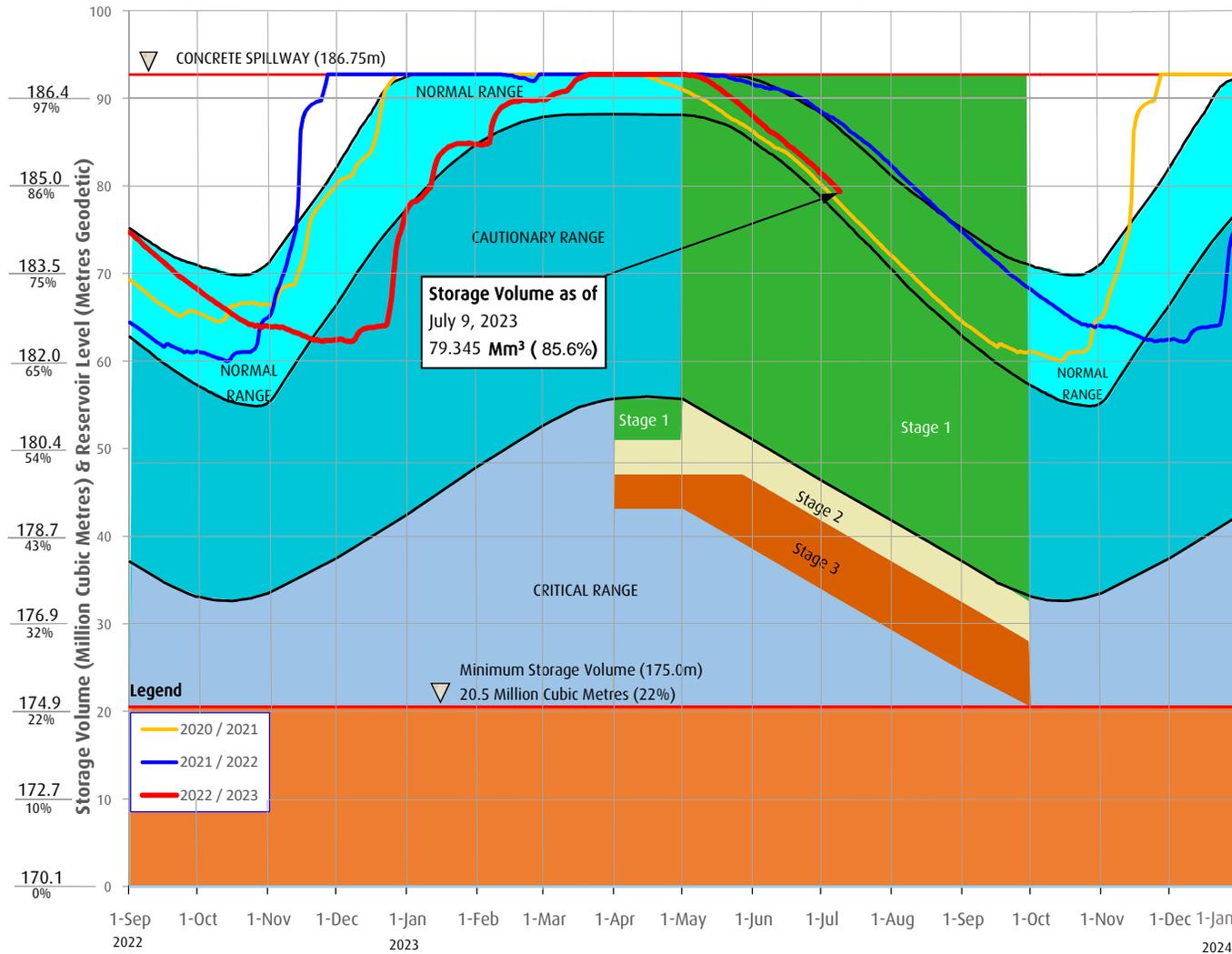
Water spilled at Sooke Reservoir to date (since Sept. 1) = 0.99 Billion Imperial Gallons
 = 4.50 Billion Litres

SOOKE LAKE RESERVOIR STORAGE SUMMARY 2022 / 2023



Sooke Lake Reservoir Storage Level

Water Supply Management Plan



FAQs

How are water restriction stages determined?

Several factors are considered when determining water use restriction stages, including,

1. Time of year and typical seasonal water demand trends;
2. Precipitation and temperature conditions and forecasts;
3. Storage levels and storage volumes of water reservoirs (Sooke Lake Reservoir and the Goldstream Reservoirs) and draw downs (Sooke Lake Reservoir and the Goldstream Reservoirs) and draw downs (Sooke Lake Reservoir and the Goldstream Reservoirs);
4. Stream flows and inflows into Sooke Lake Reservoir;
5. Water usage, recent consumption and trends; and customer compliance with restriction;
6. Water supply system performance.

The Regional Water Supply Commission will consider the above factors in making a determination to implement stage 2 or 3 restrictions, under the Water Conservation Bylaw.

At any time of the year and regardless of the water use restriction storage, customers are encouraged to limit discretionary water use in order to maximize the amount of water in the Regional Water Supply System Reservoirs available for nondiscretionary potable water use.

Stage 1 is normally initiated every year from May 1 to September 30 to manage outdoor use during the summer months. During this time, lawn watering is permitted twice a week at different times for even and odd numbered addresses.

Stage 2 is initiated when it is determined that there is an acute water supply shortage. During this time, lawn water is permitted once a week at different times for even and odd numbered addresses.

Stage 3 is initiated when it is determined that there is a severe water supply shortage. During this time, lawn watering is not permitted. Other outdoor water use activities are restricted as well.

For more information, visit www.crd.bc.ca/drinkingwater





Useable Reservoir Volumes in Storage for July 09, 2023

