

SAANICH PENINSULA WATER COMMISSION

Notice of Meeting on **Thursday, October 17, 2019 at 9 a.m.**

Saanich Peninsula Treatment Plant Meeting Room, 9055 Mainwaring Road, North Saanich, BC

P. Wainwright (Chair)	M. Doehnel	G. Orr	K. Wing
M. Thompson (V. Chair)	C. Graham	M. Weisenberger	M. Underwood
R. Barnhart	C. McNeil-Smith	R. Windsor	

AGENDA

1. Approval of Agenda
2. Adoption of Minutes 3
- Recommendation:**
That the Saanich Peninsula Water Commission adopt the March 21, 2019 minutes as circulated.
3. Chair's Remarks
4. Presentations/Delegations
 - No one has registered to speak
5. General Manager's Report
 - 2020 Commission Appointments
6. Correspondence
- 6.1. Letter from the Peninsula & Area Agricultural Commission dated May 13, 2019 7
7. Commission Business
- 7.1. **SPWC 19-01** Saanich Peninsula Water Supply Service – 2020 Operating and Capital Budget 11

Recommendation: *That the Saanich Peninsula Water Commission recommend that the Capital Regional District Board:*

1. *Approve the 2020 operating and capital budget;*
2. *Approve the 2020 Saanich Peninsula bulk water rate of \$1.0223 per cubic metre, and the Agricultural Research Station water rate of \$1.0575 per cubic metre, adjusted if necessary by any changes in the CRD Regional Water Supply wholesale water rate;*
3. *Direct staff to balance the 2019 actual revenue and expense on the transfer to capital reserve fund; and*
4. *Direct staff to amend the Bulk Water Rates Bylaw accordingly.*

To ensure a quorum, advise Denise at 250.360.3087 if you or your alternate cannot attend.

Saanich Peninsula Water Commission
Agenda – October 17, 2019

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7.2. Summary of Recommendations from Other Water Commissions..... 33

Recommendation: *That the Saanich Peninsula Water Commission receive the Summary of Recommendations from Other Water Commissions for information.*

7.3. Water Watch..... 48

Recommendation: *That the Saanich Peninsula Water Commission receive the October 6, 2019 Weekly Water Watch report for information.*

8. New Business

9. Adjournment

Next Meeting: To be confirmed

MINUTES OF A MEETING OF THE SAANICH PENINSULA WATER COMMISSION
Held Thursday, March 21, 2019 in the Saanich Peninsula Treatment Plant Meeting Room,
9055 Mainwaring Road, North Saanich, BC

PRESENT: P. Wainwright (Chair); M. Thompson (V. Chair); R. Barnhart; M. Doehnel;
 C. McNeil-Smith; G. Orr; M. Weisenberger; K. Wing (9:06 a.m.)

STAFF: T. Robbins, General Manager, Integrated Water Services; M. McCrank,
 Infrastructure Operations; I. Jesney, Infrastructure Engineering; G. Harris,
 Environmental Protection; C. Lowe, Environmental Science Officer;
 P. Kickham, Manager, Regulatory Services; D. Dionne (recorder)

ABSENT: C. Graham; R. Windsor; M. Underwood

ALSO PRESENT: S. Duncan, Township of Sidney; E. Toupin, District of North Saanich;
 T. O'Keef, Township of Sidney

The meeting was called to order at 9:02 a.m.

The Chair provided a Territorial Acknowledgement.

1. Approval of Agenda

The following two items were added to the agenda under New Business:

- 6.1 Lochside Road Crane Incident Update
- 6.2 Post Disaster Water Supply Plan Presentations to Municipalities

MOVED by Commissioner McNeil-Smith, **SECONDED** by Commissioner Barnhart,
 That the Saanich Peninsula Water Commission approve the agenda as amended.

CARRIED

2. Adoption of Minutes from January 17, 2019

MOVED by Commissioner McNeil-Smith, **SECONDED** by Commissioner Orr,
 That the Saanich Peninsula Water Commission adopt the minutes of the meeting held January
 17, 2019.

CARRIED

Commissioner Wing joined the meeting

3. Chair's Remarks

The Chair made the following remarks:

- 1. T. Robbins was interviewed on Radio Sidney regarding the Capital Regional District's (CRD) post emergency water supply plan. The interview is available as a podcast on www.radiosidney.ca.

2. As Vice Chair of the Saanich Peninsula Water Commission (the Commission) M. Thompson provides representation on the Regional Water Advisory Committee, a position that is typically held by the Vice Chair. As this Commission's representative, he will occasionally report out on discussions occurring at the Water Advisory Committee. The Water Advisory Committee is expected to meet in May.

4. Presentations/Delegations

There were no presentations or delegations.

5. Commission Business

5.1. EEP 19-01 Water Quality Report for Sooke Lake Reservoir – September to December 2018

G. Harris spoke to the report noting that the Regional Water Supply Commission has requested updates which are provided on a quarterly basis. The report is for information.

MOVED by Commissioner Weisenberger, **SECONDED** by Commissioner Doehnel,
That the Saanich Peninsula Water Commission receive the Sooke Lake Reservoir monitoring results for September to December 2018 for information.

CARRIED

5.2. Summary of Recommendations from Other Water Commissions

MOVED by Commissioner McNeil-Smith, **SECONDED** by Commissioner Weisenberger,
That the Saanich Peninsula Water Commission receive the report for information.

CARRIED

5.3. Water Watch

T. Robbins spoke to the report and noted that the Sooke Lake Reservoir is a little low due to the relatively dry season, snow has just started melting and there has been no rain in the past two to three weeks. With the warmer weather the past couple of days, the snow is starting to melt and the water level is starting to rise. Staff expect to see some precipitation into April and currently do not have concerns but are monitoring the levels and the long range forecasts.

MOVED by Commissioner McNeil-Smith, **SECONDED** by Commissioner Barnhart,
That the Saanich Peninsula Water Commission receive the report for information.

CARRIED

6. New Business

6.1. Lochside Road Crane Incident Update

T. Robbins reported that on January 24, 2019 a 60 tonne crane rolled over off the side of the road on Lochside Drive in Central Saanich and landed about one metre from CRD

regional water transmission main #4. The owner of the crane was not able to provide a plan to remove the crane and the CRD assumed control of the site, worked with the municipal, provincial and federal governments and hired a consultant to mitigate environmental risks. The crane was removed and the CRD will be seeking cost recovery for the cost to remove the crane. The water main was not compromised throughout the process.

He also advised that, while the crane was still in place, staff were also preparing an emergency plan should the main break. Pipe and couplings were mobilized near the site in case repairs were needed. Staff coordinated with critical services on the Peninsula, the airport, hospital etc. He noted that this incident highlights the vulnerability with some of the sections of the water main. This section continues to be a high priority replacement and staff are contemplating advancing its replacement.

Discussion ensued with the following noted:

- The Ministry of Environment attended the site, providing daily monitoring. They engaged Stantec to prepare an environmental plan which the CRD took over and completed with Stantec. There was regular soil and surface water monitoring with some soil removal. Staff will return to conduct final monitoring and to reseed the area.
- T. Robbins advised that the Province has responded to the Disaster Mitigation and Adaptation Funding grant application, noting the Province's interest in the project due to its regional nature and direct connections to the First Nations. However, enough submissions that were 'shovel ready' were received and the Province has encouraged the CRD to apply again in the fall.
- The grant application included providing some redundancy to the system by proposing to interconnect the Bear Hill system to the Dean Park system to provide a second feed.

6.2. Post Disaster Water Supply Plan

At its October 4, 2019 meeting the Saanich Peninsula Water Commission made the following motion:

That the Saanich Peninsula Water Commission request that staff make presentations on the CRD's post disaster water supply plan, to Saanich Peninsula municipal staff, First Nations groups, the Airport Authority and BC Ferries, by the end of the first quarter 2019.

T. Robbins advised that the equipment delivery was delayed and staff are expecting it in April. Staff will go to Vancouver in the next couple of weeks to conduct pre testing. He noted that once the trailer is ready staff will be presenting it to the municipalities.

Discussion ensued with the following noted:

- The trailer can serve roughly 10,000 people with modules interconnected depending on the area that needs to be served.
- The first Sea Can unit is proposed to be installed at Panorama Recreation Centre as a permanent fixture. Then there would be additional units and modules built and installed in different locations over the coming years.

- It is intended that volunteers will be needed to crew the units during an emergency as CRD and municipal staff would be responding to emergency repairs. Municipalities would need to review including training and integrating into the Peninsula Emergency Plans.

6.3. Other New Business

Commissioner Doehnel advised that the Peninsula Agricultural Commission was requested to breakdown the difference in how each municipality handles their agricultural water rebates. The report is not available online yet, but he can forward by email to anyone interested.

Commissioner Doehnel noted that the District of Highlands has applied for wildfire mitigation funding and that, when reviewing the wildfire risk map, there is a red spot on the peninsula. He asked what the best way is to approach this. Commissioner Orr advised that the red area came out of the community wildfire planning conducted about eight years ago. The map is currently being updated and the Township of Sidney has applied for a grant.

Discussion ensued regarding water supply near Senanus Road, the District of Highlands motion that was approved at the CRD Board on March 13, 2019 and what the CRD is doing around wildfire risk mitigation. Staff noted that the CRD is raising the larger issue of wildfire risk through the Regional Emergency Management Plan.

7. Adjournment

MOVED by Commissioner McNeil-Smith, **SECONDED** by Commissioner Barnhart,
That the Saanich Peninsula Water Commission meeting be adjourned at 9:48 a.m.

CARRIED

Chair

Secretary



Peninsula & Area Agricultural Commission

c/o Saanich Municipal Hall
 770 Vernon Avenue, Victoria, B.C. V8X 2W7
 Telephone: (250) 475-1775 Fax: (250) 475-5440
 Secretary: Isobel Hoffmann, isobel.hoffmann@saanich.ca
 Co-Chairs: Jack Mar & Phil Christie

May 13, 2019

Mr. Ted Robbins, General Manager
 Integrated Water Services
 Capital Regional District
 479 Island Highway
 Victoria, BC V9B 1H7

Dear Mr. Robbins:

The Peninsula and Area Agricultural Commission has recently completed an evaluation of farm water charges and reconciliation from the three main agricultural water user municipalities (Saanich, Central Saanich, North Saanich). We found that there could be ways to simplify and reduce the administrative burden for all parties as it pertains to the CRD's accounting of payments. (See description of variables starting on page 2)

We anticipate the CRD and the municipalities would work together to provide a final cohesive plan for the planting season 2020.

Special notes to:

- **Saanich:** in the interest of fairness, PAAC recommends that Saanich, like the other municipalities, not charge and then rebate the AG farmer fixed per meter tri annual charges.
- **North Saanich:** In the interest of fairness that North Saanich get the rebate from the CRD from AG meters equivalent to the fixed meter charges charged by the other municipalities.
- **Extra Note using 2017 data:** Due to the difference of the bulk wholesale price of water \$0.6375 per m3 for Saanich and \$0.9111 per m3 for both Central and North Saanich, North Saanich pays an extra \$56,176 and Central Saanich pays an extra \$190,592 for wholesale water compared to Saanich. This should be addressed by reducing the wholesale bulk water rate for all Agricultural use through the Saanich Peninsula distribution system to match the rate paid by Saanich. This would be similar to the reduced bulk wholesale rate currently paid by the Center for Plant Health.

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Member Municipalities:
 Districts of Saanich, Central Saanich, North Saanich & Metchosin

Central Saanich Example				Saanich example			
municipality pays	0.9111 m3	wholesale from CRD		municipality pays	0.6375 m3	wholesale from CRD	
farmer rate	0.2015 m3	from municipality		farmer rate	0.2015 m3	from municipality	
retail rate	1.557 m3	from residential customers		retail rate	1.560 m3	from residential customers	
differential	1.356	CRD pays diff of farmer rate and retail rate to municipality		differential	1.359	CRD pays diff of farmer rate and retail rate to municipality	
farmer uses	1	m3		farmer uses	1	m3	
farmer pays	0.2015	m3		farmer pays	0.2015	m3	
muni pays	0.9111	m3		muni pays	0.6375	m3	
muni the hole for	-0.7096	m3		muni the hole for	-0.4360	m3	
CRD pays muni	1.356	m3		CRD pays muni	1.359	m3	
Final rebate less cost of bulk water				0.6459 m3 for farm water(345 connections)	Final rebate less cost of bulk water		
				0.9225 m3 for farm water(130 connections)			

PAAC supports farm water rates for food and feed-producing lands whereby the water use and farm production, especially for AR accounts, should be monitored and adjudicated by a professional agrologist/farmer. It is only at the pleasure of the CRD and its member municipalities, which have continued to support food and feed production in the region, that this financial support is available.

This regional only rebate does not fall under the same set of farming rules as applied by both the ALC and the BC Assessment Authority. It is also recommended that some of the money rebated to Municipalities be available for new and/or upgraded meters, back-flow preventers and a comprehensive review and implementation of water balancing and availability in the system to ensure current and expected future demand is available to accredited farmers. This will encourage more food production from both new and established farms.

Working with 2017 data:

Central Saanich: Troy Ziegler contact

- Residential retail rate is a fixed per meter and consumption tri-annual charge.
- AG accounts do not pay a fixed per meter charge. The fixed per meter charge is calculated by CS annually and is rebated to the district from the CRD annually.
- AG accounts pay the agricultural consumption rate of \$.2105 per m3 . Central Saanich is rebated annually from the CRD the difference between the retail consumption rate and the ag consumption rate for their total consumption (on their bills it states the retail rate but the actual calculation does not reflect this).
- AR accounts pay the fixed per meter tri-annual charge and it is not rebated from the CRD to the district.
- AR accounts pay retail rates up to 455 m3 usage annually and the agricultural consumption rate thereafter. Central Saanich is rebated annually from the CRD the difference between the retail rate and the AG consumption rate for their total agricultural consumption only.
- Central Saanich has a discount of 10% if bill paid on or before due date.

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Additional comments from Central Saanich

- The amount paid from CRD to Central Saanich (CS) for AG fixed charge and all AG consumption, I would call it a subsidy to CS through the CRD.
- As you know the CRD collects monies from all CRD municipalities/residents in order to subsidize agricultural water charges and rates. That way all CRD residents share the cost of agricultural water subsidy and not just residents in those agricultural communities.
- We refer to the bills as tri-annual billings (every 4 months).
- The 2018 retail water rate was \$1.635 m3.
- All bills paid by the due date receive a 10% discount.

North Saanich: Meghan Mason contact

- Residential retail rate is a yearly fixed per parcel charge only and a consumption tri-annual charge.
- Both AG and AR accounts pay a yearly fixed per parcel charge only (no fixed per meter charges and no CRD rebates).
- AG accounts pay the agricultural consumption rate of \$.2105 to North Saanich who in turn get rebated from the CRD the difference between this rate and the retail rate on a tri-annual basis.
- AR accounts pay residential retail rates up to 455 m3 annually (divided by 3) and the agricultural consumption rate thereafter on a tri-annual basis.
- The agricultural portion is rebated as above to North Saanich by the CRD on a tri-annual basis.

Additional Comments from North Saanich:

- The North Saanich section is correct, with the exception of the 455 m3 note. The threshold is actually 152 m3 per trimester.

Saanich: Ann Tetley contact

- Residential retail rate is a fixed per meter (varies depending on size of meter) and retail consumption tri-annual charge.
- AG accounts pay the fixed charge per meter (varies depending on size of meter) and the agricultural consumption charge of \$.2105 per m3 tri-annually.
- The district rebates the account annually for fixed per meter charges.
- The CRD rebates the district the fixed per meter charges and the difference of the retail and agricultural consumption rate annually.
- AR accounts pay the fixed charge per meter (varies depending on size of meter) and the retail consumption charge tri-annually and the district rebates the account annually for consumption charges over 455 m3 as per above formula.
- The CRD rebates the district the difference of the retail and agricultural rate for agricultural consumption annually. The fixed charge is not rebated from CRD to the district nor from the District to the account

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- **Additional comments from Saanich**
The residential rate is set as per category (residential, agricultural, farm) and the rate is applied to usage. In addition to this rate there is a monthly charge for each water connection that varies depending on the size of the meter.
- The District receives a credit from the CRD for the fixed meter charges and the difference between the retail and agricultural rate. The fixed charge amount is refunded to the customer, but the District retains the credit for the difference in consumption between the residential and the agricultural rate.
- The customer has not paid the retail rate to the District - they have been charged the CRD agricultural rate (our farm rate) of \$.2105 throughout the year.

Respectfully submitted for your consideration. We look forward to receiving your response.

"Phil Christie & Jack Mar"

Jack Mar and Phil Christie
Co-Chairs, Peninsula & Area Agricultural Commission

cc: Mayor Haynes and Councillors, District of Saanich
Mayor Windsor and Councillors, District of Central Saanich
Mayor Orr and Councillors, District of North Saanich

**REPORT TO SAANICH PENINSULA WATER COMMISSION
MEETING OF THURSDAY, OCTOBER 17, 2019**

SUBJECT SAANICH PENINSULA WATER SERVICE - 2020 OPERATING AND CAPITAL BUDGET

ISSUE

To provide an overview of the 2020 Saanich Peninsula Water Service operating and capital budget, highlighting the changes from the 2019 budget and the proposed 2020 budget figures. The report generally follows the sequence of information provided in the attached draft budget document (Appendix A).

BACKGROUND

The draft 2020 Saanich Peninsula Water Service budget has been prepared for the Saanich Peninsula Water Commission's (Commission) consideration. The Commission will make budget recommendations to the CRD Board. As in previous years, the draft 2020 budget has been prepared considering the CRD Board's 2020 service planning and financial expectations, which include identifying opportunities to realign or reallocate resources and seek potential synergies or efficiencies between departments and services, reviewing of service levels and adjustments related to regulatory compliance, and undertaking infrastructure improvements to maintain service levels across the service area. The following sets out the key components of the budget.

2019 Year-end Financial Projections

The actual 2019 operating expense is projected to be \$56,725 under budget. The actual bulk water purchase expense is estimated to be higher than budget by \$203,250, due to the projected higher than budget demand volume at year end 2019. This corresponds with water sales revenue that is estimated to be \$294,531 higher than budget. The net revenue surplus is projected to be \$91,281 after the bulk water purchase expense is deducted. To balance the budget at year end, the proposed transfer to the capital reserve fund has been increased by \$142,205 to \$612,205.

Operating Budget

An increase in the 2020 operating expense in the amount of \$57,411 is planned and results primarily from non-discretionary expense adjustments such as wage/salary increases, departmental support service allocations, and other operating expense increases such as electricity costs.

The bulk water purchase expense, based on the proposed 2020 Regional Water Supply wholesale water rate and the 2020 Saanich Peninsula Water budget demand volume, has been set at \$4,738,240.

Saanich Peninsula Water Commission – October 17, 2019
Saanich Peninsula Water Service - 2020 Operating and Capital Budget

Capital Budget

The planned transfer to the capital reserve fund in 2020 is \$650,000. At year-end 2019, the capital reserve fund balance is estimated to be \$5,341,796 which is available to fund major capital projects. The planned transfer to the equipment replacement fund in 2020 is \$50,000. At year-end 2019, the equipment replacement fund balance is estimated to be \$1,768,094, which is available to fund minor capital and operating machinery and equipment replacements. The value of the five-year (2020 to 2024) capital plan is currently \$2,690,000, including a budget allowance for post-disaster water supply equipment and infrastructure improvements. With the current reserve fund balance, and the planned contributions over the next five years, based on the current capital plan, there will be sufficient funding in reserves for the five-year capital plan, while maintaining a positive balance for unplanned expenditures, without the need for borrowing. The service currently does not carry any debt.

The Development Cost Charge (DCC) program represents \$145,000 of the capital plan, and reflects the projects included in the 2018 DCC program update. At year-end 2019, the DCC reserve fund balance is estimated to be \$2,181,923. There is one DCC project planned in 2020 under the DCC program, which is to install a backup power generator at the Hamsterley Pumpstation. The project budget has been set at \$430,000; \$95,000 will be funded from the DCC reserve fund and \$335,000 will be funded from the capital reserve fund.

Water Demand

Total water demand across the Saanich Peninsula Water Service area continues to exceed the annual budgeted demand figure as a result of extended periods of warm dry weather through the spring and summer, but also due to the continued rate of development and growth. The total 2019 year end demand is projected to be 6,800,000 cubic metres which is higher than the 2019 budgeted demand of 6,500,000 cubic metres. The recommended 2020 water rate has been calculated using a budget demand of 6,800,000 cubic metres.

2020 Water Rates

The 2020 CRD Regional Water Supply wholesale water rate of \$0.6968 per cubic metre, a 2.85% increase over the 2019 rate, has been approved by the Regional Water Supply Commission. The 2020 agricultural rate of \$0.2105 per cubic metre has also been recommended. The Regional Water Supply agricultural water rate budget funds the difference between the municipal retail water rate and the CRD agricultural water rate. A summary of the agricultural water volumes and agricultural water rate payments for 2011 to 2018 is attached for information (Appendix C).

The recommended Saanich Peninsula Bulk Rate is \$1.0223 per cubic metre, a 4.16% increase over the 2019 rate. The increase in annual bulk water cost for the average household using 235 cubic metres per year would be \$9.59.

The Agricultural Research Station Rate has been set at \$1.0575 per cubic metre.

The Saanich Peninsula Water rate and Regional Water Supply rate history and projection is attached (Appendix B). The rates may be adjusted in the future to reflect actual revenue and expenditure circumstances and water demand volumes.

Saanich Peninsula Water Commission – October 17, 2019**Saanich Peninsula Water Service - 2020 Operating and Capital Budget****3****RECOMMENDATIONS**

That the Saanich Peninsula Water Commission recommend that the Capital Regional District Board:

1. Approve the 2020 operating and capital budget;
2. Approve the 2020 Saanich Peninsula bulk water rate of \$1.0223 per cubic metre, and the Agricultural Research Station water rate of \$1.0575 per cubic metre, adjusted if necessary by any changes in the CRD Regional Water Supply wholesale water rate;
3. Direct staff to balance the 2019 actual revenue and expense on the transfer to capital reserve fund; and
4. Direct staff to amend the Bulk Water Rates Bylaw accordingly.

Submitted by:	Ted Robbins, B.Sc., C.Tech., General Manager, Integrated Water Services
Concurrence:	Nelson Chan, M.B.A., C.P.A., C.M.A., Chief Financial Officer, Financial Services
Concurrence:	Robert Lapham, M.C.I.P., R.P.P., Chief Administrative Officer

TR:dd

Attachments: 3

Appendix A: Draft Budget Document

Appendix B: Saanich Peninsula Water Rate and Regional Water Supply Rate History and Projection

Appendix C: Agricultural Water Volumes and Rate Payments 2011 - 2018

CAPITAL REGIONAL DISTRICT

2020 BUDGET

Saanich Peninsula Water Supply

COMMISSION REVIEW

OCTOBER 2019

Service: 2.610

Saanich Peninsula Water Supply

Commission: Saanich Peninsula Water

DEFINITION:

To purchase water and to acquire, design, construct, reconstruct, purchase, maintain and operate facilities and to acquire property easements, licences and authorities for the supply of water to Central Saanich, North Saanich, and Sidney, for distribution by the municipalities. Letters Patent, December 22, 1976; revised Sept. 27, 1984. Amended SLP April 27, 1978 and March 19, 1986.

SERVICE DESCRIPTION:

This service provides for the purchase of bulk water for supply to Central Saanich, North Saanich, and Sidney, for distribution within their municipalities. Included in the program is the responsibility to provide design, construction, operation and maintenance, licenses, and water quality monitoring to the service area.

PARTICIPATION:

Central Saanich /North Saanich/ Sidney

MAXIMUM LEVY:**MAXIMUM CAPITAL DEBT:**

As established by Inspector of Municipalities.

COMMISSION:

Saanich Peninsula Water Commission established by Letters Patent to advise the Board with respect to this function.

FUNDING:

Water rates and debt cost allocation to be established by bylaw, charged to the individual municipalities.

Bulk Water Rate

To cover 100% of operating costs, billed monthly to each municipality.

Requisition

To cover 100% of debt costs by formula: levy of \$0.115 / \$1,000 of total hospital assessments for all members plus 1/3 of balance on each of members: number of connections, specified area school assessments and population.

CAPITAL DEBT:

All Bylaws have expired.

CAPITAL REGIONAL DISTRICT

Program Group: CRD-Saanich Peninsula Water Supply	2020 BUDGET REQUEST						FUTURE PROJECTIONS			
	2019 BOARD BUDGET 2	2019 ESTIMATED ACTUAL 3	CORE BUDGET 4	ONGOING 5	ONE-TIME 6	TOTAL (COL 4, 5 & 6) 7	2021 8	2022 9	2023 10	2024 11
SUMMARY										
1										
<u>OPERATING EXPENDITURES:</u>										
ALLOCATION - OPERATIONS	1,007,848	981,678	1,041,844	-	-	1,041,844	1,064,384	1,087,419	1,110,963	1,135,021
UTILITIES	206,207	205,620	214,440	-	-	214,440	223,006	227,912	232,926	238,050
OPERATING - OTHER COSTS	170,753	140,785	169,615	-	-	169,615	173,339	177,137	181,029	184,996
ALLOCATION - CORPORATE OVERHEAD	76,912	76,912	93,232	-	-	93,232	107,187	121,662	124,095	126,577
TOTAL OPERATING EXPENDITURES	1,461,720	1,404,995	1,519,131	-	-	1,519,131	1,567,916	1,614,130	1,649,013	1,684,644
*Percentage increase over prior year board budget			3.93%			3.93%	3.21%	2.95%	2.16%	2.16%
TOTAL BULK WATER EXPENDITURES	4,403,750	4,607,000	4,738,240	-	-	4,738,240	4,872,880	5,033,360	5,164,600	5,312,840
<u>CAPITAL EXPENDITURES & TRANSFERS</u>										
TRANSFER TO CAPITAL RESERVE FUND	470,000	612,205	650,000	-	-	650,000	700,000	750,000	800,000	850,000
TRANSFER TO EQUIPMENT REPLACEMENT FUND	50,000	50,000	50,000	-	-	50,000	50,000	50,000	50,000	50,000
TOTAL CAPITAL EXPENDITURES & TRANSFERS	520,000	662,205	700,000	-	-	700,000	750,000	800,000	850,000	900,000
<u>DEBT SERVICING</u>										
DEBT-INTEREST & PRINCIPAL	-	-	-	-	-	-	-	-	-	-
TOTAL DEBT SERVICING EXPENDITURES	-	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	6,385,470	6,674,200	6,957,371	-	-	6,957,371	7,190,796	7,447,490	7,663,613	7,897,484
<u>SOURCES OF FUNDING-OPERATIONS</u>										
REVENUE -WATER SALES	(6,379,669)	(6,674,200)	(6,951,571)	-	-	(6,951,571)	(7,184,996)	(7,441,690)	(7,657,813)	(7,891,684)
REVENUE -OTHER	(5,800)	-	(5,800)	-	-	(5,800)	(5,800)	(5,800)	(5,800)	(5,800)
TOTAL SOURCES OF FUNDING FROM OPERATIONS	(6,385,469)	(6,674,200)	(6,957,371)	-	-	(6,957,371)	(7,190,796)	(7,447,490)	(7,663,613)	(7,897,484)
<u>SOURCES OF FUNDING-REQUISITION</u>										
PROPERTY TAX REQUISITION FOR DEBT	-	-	-	-	-	-	-	-	-	-
TOTAL REQUISITION	-	-	-	-	-	-	-	-	-	-
TRANSFER FROM PRIOR YEAR	-	-	-	-	-	-	-	-	-	-
TRANSFER TO FOLLOWING YEAR	-	-	-	-	-	-	-	-	-	-
TOTAL CARRY FORWARD (SURPLUS)/ DEFICIT	-	-	-	-	-	-	-	-	-	-
TOTAL SOURCES OF ALL FUNDING	(6,385,469)	(6,674,200)	(6,957,371)	-	-	(6,957,371)	(7,190,796)	(7,447,490)	(7,663,613)	(7,897,484)
Percentage increase over prior year's board budget			8.96%			8.96%	3.36%	3.57%	2.90%	3.05%

2.610 SAANICH PENINSULA WATER

20/09/2019:48 PM

Change in Budget 2019 to 2020**Service: 2.610 Saanich Peninsula Water Supply****Total Expenditure****Comments****2019 Budget****6,385,469****Change in Labour:**

Labour charges

33,500

Labour charges (Salaries and overhead)

Total Change in Labour

33,500

Other Changes:

Bulk Water Purchase

334,490

Transfers to Capital Reserve

180,000

Corporate Allocations

16,320

Electricity

8,200

Other

(608)

Minor budget corrections

Total Other Changes

538,402

2020 Budget**6,957,371****Overall 2019 Budget Performance**

(expected variance to budget and surplus treatment)

Favourable revenue variance of \$290,000 (4.5%) due to higher than budgeted water sales. This additional revenue will be used to offset bulk water purchase overages. The net surplus of \$142,000 will be transferred to the Capital Reserve Fund.

SAANICH PENINSULA WATER SUPPLY

2020 Demand Estimate

Retail Demand

Years	Actual Demand cu.metre	Budgeted Demand cu.metre
2015	6,695,312	6,270,000
2016	6,870,557	6,270,000
2017	6,549,588	6,270,000
2018	7,044,786	6,300,000
2019	6,800,000*	6,500,000
2020 Demand Estimate	6,800,000	

* Projected consumption for 2019

SAANICH PENINSULA WATER SUPPLY

Summary of Supply Water Rates to Participating Municipalities

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Change</u>	<u>% change</u>
Retail (direct) water rate							
Saanich Peninsula Retail cost per cu.m.	\$0.9073	\$0.9111	\$0.9621	\$0.9815	\$1.0223	\$0.0408	4.2%
Agricultural Research Station cost per cu.m.	\$0.9425	\$0.9463	\$0.9973	\$1.0167	\$1.0575	\$0.0408	4.0%

Summary of Bulk Water Purchase Rates from Regional Water Supply

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Change</u>	<u>% change</u>
CRD Bulk water purchase cost per cu.m.	\$0.6375	\$0.6375	\$0.6644	\$0.6775	\$0.6968	\$0.0193	2.8%

SAANICH PENINSULA WATER SUPPLY

Summary of Supply Water Rates to Participating Municipalities

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Change</u>	<u>% change</u>
Retail (direct) water rate							
Unit cost per cu.m.	\$ 0.9073	\$ 0.9111	\$ 0.9621	\$ 0.9815	\$ 1.0223	\$ 0.0408	4.2%

Retail Water Rate Increase Impact on Participating Municipalities Water Bill

Average consumption: 235.0 cubic meters

<u>Charge for Twelve Months Consumption</u>	<u>Year</u>	<u>Annual charge</u>	<u>2020 Annual Change \$</u>
Average Consumption	2019	\$ 230.65	
	2020	\$ 240.24	\$ 9.59
Half Average Consumption	2019	\$ 115.33	
	2020	\$ 120.12	\$ 4.79
Twice Average Consumption	2019	\$ 461.31	
	2020	\$ 480.48	\$ 19.19

Schedule A
Asset Useful Life Assignments - PSAB

<u>Classes:</u>	<u>Code</u>	<u>Asset Categories</u>	<u>Useful Life, Years</u>
Land	LAND	Land & Rights of Way * (Note 1)	N/A
Building	BLDG	Building, Permanent	50
	BLOT	Building, Temporary/ Portable	20
	BLFX	Building fixture (<i>sprinklers</i>)	20
Equipment	BOAT	Boats & Marine Equipment	10
	COMP	Computer Equipment (<i>includes software</i>)	5
	ELEC	Electronic Equipment(<i>hydromet, weather stn eqpt</i>)	5
	FIRE	Fire & Safety Equipment	10
	GENT	Generator	20
	HYDR	Hydrants and Standpipes	20
	HYDY	Hydrology	10
	MTRS	Meters	20
	OFFE	Office Equipment	5
	OFFF	Office Furniture	10
	SCDA	SCADA Equipment	10
	SCRN	Intake Screens/Membranes (<i>stop logs</i>)	20
	SHOP	Shop Equipment	10
	TELE	Telecommunication Eqpt (<i>radios, phone systems</i>)	10
	WEQP	Water Works Eqpt(<i>W.Quality lab, Wshed eqpt</i>)	10
	NEW GRP	Weather stn & communication tower	15
Vehicle	VEHC	Vehicles	8
Engineering	BRDG	Bridge	50
Structure	CANL	Canal	50
	DAMS	Dam Structures	100
	PIPE	Pipelines, includes Vaults, Kiosks, Valve chambers	75
	PIPF	Pipelines, fittings	20
	PLPV	Parking lot paved	40
	PSEQ	Pump Station Equipment	20
	PSHS	Pump Station Housing	50
	PRVS	Valves, Flushes & PRV's	20
	RDGR	Roads gravel	20
	RDPV	Roads paved	40
	RESS	Reservoirs (steel & concrete)	50
	REST	Reservoirs (tower/tank)	35
	TANK	Storage tank	40
	TELP	Telephone and Power Lines	50
	TUNN	Tunnel, Culvert and Diversions	50
	WATP	Water Treatment Plant	25
	WELL	Wet well/ Well	50
Other Assets	CSTU	Capital Management Studies	5
	FENC	Fences	15
	LIMP	Land & Yard Improvements	20

Note 1: Land is not depreciated so a useful life assignment is not applicable.

CAPITAL REGIONAL DISTRICT
FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2020 to 2024

Service No.	2.610	Carry Forward from 2019	2020	2021	2022	2023	2024	TOTAL
	Saanich Peninsula Water Supply							

EXPENDITURE

Buildings	B	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	E	\$0	\$120,000	\$75,000	\$0	\$0	\$0	\$195,000
Land	L	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Engineered Structures	S	\$600,000	\$1,405,000	\$260,000	\$360,000	\$260,000	\$210,000	\$2,495,000
Vehicles	V	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$600,000	\$1,525,000	\$335,000	\$360,000	\$260,000	\$210,000	\$2,690,000

SOURCE OF FUNDS

Capital Funds on Hand	Cap	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debenture Debt (New Debt Only)	Debt	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Replacement Fund	ERF	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Grants (Federal, Provincial)	Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Donations / Third Party Funding	Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reserve Fund	Res	\$600,000	\$1,475,000	\$285,000	\$310,000	\$210,000	\$160,000	\$2,440,000
		\$600,000	\$1,525,000	\$335,000	\$360,000	\$260,000	\$210,000	\$2,690,000

CAPITAL REGIONAL DISTRICT CAPITAL PLAN

CAPITAL BUDGET FORM
2020 & Forecast 2021 to 2024

Service #: 2.610

Service Name: Saanich Peninsula Water Supply

Proj. No.
The first two digits represent first year the project was in the capital plan.

Capital Exp. Type
Study - Expenditure for feasibility and business case report.
New - Expenditure for new asset only
Renewal - Expenditure upgrades an existing asset and extends the service ability or enhances technology in delivering that service
Replacement - Expenditure replaces an existing asset

Funding Source Codes
Debt = Debenture Debt (new debt only)
ERF = Equipment Replacement Fund
Grant = Grants (Federal, Provincial)
Cap = Capital Funds on Hand
Other = Donations / Third Party Funding

Funding Source Codes (cont)
Res = Reserve Fund
STLoan = Short Term Loans
WU = Water Utility

Asset Class
L - Land
S - Engineering Structure
B - Buildings
V - Vehicles
E - Equipment

Capital Project Title
Input Title of Project. For example "Asset Name - Roof Replacement", "Main Water Pipe Replacement".

Capital Project Description
Briefly describe project scope and service benefits.
For example: "Full Roof Replacement of a 40 year old roof above the swimming pool area; the new roofing system is built current energy standards, designed to minimize maintenance and have an expected service life of 35 years".

Total Project Budget
This column represents the total project budget not only within the 5-year window.

FIVE YEAR FINANCIAL PLAN

Proj. No.	Capital Exp. Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carry Forward from 2019	2020	2021	2022	2023	2024	5 - Year Total
SYSTEM UPGRADES AND REPLACEMENTS													
Planning													
19-02	New	Strategic Asset Management Plan Update	Update the asset management plan with recent study information (post disaster emergency water supply, Elk Lake Main Removals, ...)	\$100,000	S	Res	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$100,000
Capital													
17-01	New	Reservoir Seismic Isolation Valves	Assessment, design and installation of seismic isolation valves at 7 of the reservoirs, and installation of restrained hydrants at reservoirs where possible.	\$500,000	S	Res	\$450,000	\$450,000	\$0	\$0	\$0	\$0	\$450,000
18-02	New	Site Security Assessment & Improvements	Assess the security of facilities and make improvements for the public and operators	\$205,000	S	Res	\$150,000	\$150,000	\$0	\$0	\$0	\$0	\$150,000
18-04	New	Post Disaster Emergency Water Supply	Identify and procure emergency systems for post disaster preparedness	\$900,000	S	Res	\$0	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
19-01	Renewal	Corrosion Protection Program	Carry out an investigation and monitoring program in conjunction with other services to prevent infrastructure failure due to corrosion	\$100,000	S	Res	\$0	\$40,000	\$10,000	\$10,000	\$10,000	\$10,000	\$80,000
20-01	Replacement	Elk Lake Main Removals	Undertake removals from outlined in 2018 Elk Lake Main Decommissioning Study	\$85,000	S	Res	\$0	\$85,000	\$0	\$0	\$0	\$0	\$85,000
20-02	New	Hamsterly Pump Station Backup Power Generator	Addition of a backup power generator at the Hamsterly Pump Station	\$335,000	S	Res	\$0	\$335,000	\$0	\$0	\$0	\$0	\$335,000
20-03	Renewal	Lochside PRV, Martindale & Tsawout Meter Replacement	As recommended in the 2017 KWL Water Audit, replace the Lochside PRV, Martindale and Tsawout flow meters.	\$120,000	E	Res	\$0	\$120,000	\$0	\$0	\$0	\$0	\$120,000
21-01	New	Level of Service Agreement	Determine and develop appropriate level of service agreements with the participating municipalities for water supply.	\$75,000	E	Res	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000
Sub-Total System Upgrades & Replacements				\$2,420,000			\$600,000	\$1,380,000	\$285,000	\$160,000	\$160,000	\$160,000	\$2,145,000
ANNUAL PROVISIONAL ITEMS													
17-02	Renewal	Provisional Equipment Replacements	Funds to conduct emergency and unplanned repairs outside of normal Operations.	\$250,000	S	ERF	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
DEVELOPMENT COST CHARGE (DCC) PROGRAM													
20-02	New	Hamsterly Pump Station Backup Power Generator	Addition of a backup power generator at the Hamsterly Pump Station	\$95,000	S	Res	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
22-01	New	Water Strategic Plan Update	Update the strategic plan to inform future works and identify hydraulic deficiencies.	\$150,000	S	Res	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000
23-01	New	DCC Program Update	5-year update of the DCC program.	\$50,000	S	Res	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
Sub-Total Development Cost Charge				\$295,000			\$0	\$95,000	\$0	\$150,000	\$50,000	\$0	\$295,000
GRAND TOTAL				\$2,965,000			\$600,000	\$1,525,000	\$335,000	\$360,000	\$260,000	\$210,000	\$2,690,000

Service: 2.610

Saanich Peninsula Water Supply

Proj. No.	19-02	Capital Project Title	Strategic Asset Management Plan	Capital Project Description	Update the asset management plan with recent study information.
Asset Class	Engineered Structures	Board Priority Area	Other	Corporate Priority Area	Drinking Water
Project Rationale Update the strategic asset management plan based upon recent studies such as the DCC Program Update, Post Disaster Response Plan, and Site Security Assessment. The update will inform future capital works.					
Proj. No.	17-01	Capital Project Title	Reservoir Seismic Isolation Valves	Capital Project Description	Assessment, design and installation of seismic isolation valves at 7 of the reservoirs, and installation of restrained hydrants at reservoirs where possible.
Asset Class	Engineered Structures	Board Priority Area	Other	Corporate Priority Area	Drinking Water
Project Rationale The Commission has indicated a desire to include seismic valves on each of the 8 Saanich Peninsula Water System reservoirs. At present, the Dean Park Middle Reservoir is the only reservoir equipped with a seismic valve. In summary a seismic valve is simple actuated system to shut the outlet valve(s) automatically if a seismic event (of a specific magnitude) is experienced. Each site is unique and installation complexity and associated costs will vary. The first task in this project will be to further define the proposed solution and budget for each site. The resulting detailed project will be reviewed in conjunction with the Strategic Asset Management Plan for the system to confirm affordability and value prior to initiating construction works.					
Proj. No.	18-02	Capital Project Title	Site Security Assessment & Improvements	Capital Project Description	Assess the security of facilities and make improvements for the public and operators
Asset Class	Engineered Structures	Board Priority Area	Other	Corporate Priority Area	Drinking Water
Project Rationale The Saanich Peninsula Water system is comprised of various pump stations, pressure control stations, meter facilities and storage tanks. The facilities have varying levels of security with no consistent intent. A site security assessment is proposed to secure all facilities so that operators can safely maintain the sites and keep the public and infrastructure safe. Funding is required to assess all facilities and conduct improvements to secure them.					

Service: 2.610

Saanich Peninsula Water Supply

Proj. No. 18-04	Capital Project Title Post Disaster Emergency Water Supply	Capital Project Description Identify and procure emergency systems for post disaster preparedness
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale <i>In the event of a disaster, it is proposed to have in place the ability to source, treat (if required) and distribute drinking water during the initial and sustained response and recovery phases to the public. This item will see the study of the issue in 2017 and 2018 with the anticipated purchase of one or more emergency distribution systems in 2018 and beyond. Initial investigation has highlighted areas, such as having hardened hydrants/standpipes that the CRD should be investing in. Additional funds are required to start implementing these additional works.</i>		
Proj. No. 19-01	Capital Project Title Corrosion Protection Program	Capital Project Description Carry out an investigation and monitoring program in conjunction with other services to prevent infrastructure failure due to corrosion
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale <i>The Saanich Peninsula Water System comprises of many material types including steel. An investigation and monitoring program will be developed to prevent infrastructure failure due to corrosion. Funds are required to retain a qualified corrosion specialist to assess and aid in developing a monitoring program.</i>		
Proj. No. 20-01	Capital Project Title Elk Lake Main Removals	Capital Project Description Undertake removals from outlined in 2018 Elk Lake Main Decommissioning Study
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale <i>Staff produced the 2018 Elk Lake Main Decommissioning Study to highlight regions of the abandoned main requiring capital works to reduce risk to public safety if the abandoned infrastructure failed. Funds are required to demolish or properly decommission abandoned and unused infrastructure.</i>		
Proj. No. 20-03	Capital Project Title Lochside PRV, Martindale & Tsawout M	Capital Project Description As recommended in the 2017 KWL Water Audit, replace the Lochside PRV, Martindale and Tsawout flow meters.
Asset Class Equipment	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale <i>KWL carried out a water audit of the Saanich Peninsula Water system in 2017 and recommended that the meters be replaced at the Lochside PRV, Martindale meter station and Tsawout meter station. Funds are required to replace the meters and complete any associated upgrades at the stations.</i>		

Service: 2.610

Saanich Peninsula Water Supply

Proj. No. 21-01	Capital Project Title Level of Service Agreement	Capital Project Description Determine and develop appropriate level of service agreements with the participating municipalities for water supply.
Asset Class Equipment	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale The SPW Service has numerous transfer points with the participating municipalities. Funding is required to determine the pressure and flow at transfer points with the participating municipalities for water supply.		
Proj. No. 17-02	Capital Project Title Provisional Equipment Replacements	Capital Project Description Funds to conduct emergency and unplanned repairs outside of normal Operations.
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale Replace various system equipment that may fail during the year that is not specifically identified and funded through the operating and capital budgets.		
Proj. No. 20-02	Capital Project Title Hamsterly Pump Station Backup Power	Capital Project Description Addition of a backup power generator at the Hamsterly Pump Station
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale From the 2018 DCC Update, KWL identified that the addition of backup power at the Hamsterly Pump Station. Funds are required to design and construct backup power for the Hamsterly Pump Station.		
Proj. No. 22-01	Capital Project Title Water Strategic Plan Update	Capital Project Description Update the strategic plan to inform future works and identify hydraulic deficiencies.
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale A water distribution system changes with development demand. A periodic update of the strategic plan to identify hydraulic deficiencies and inform future works is periodically required to ensure the level of service.		
Proj. No. 23-01	Capital Project Title DCC Program Update	Capital Project Description 5-year update of the DCC program.
Asset Class Engineered Structures	Board Priority Area Other	Corporate Priority Area Drinking Water
Project Rationale Funds are required to conduct a 5-year update of the DCC program.		

**2.610 Saanich Peninsula Water
Summary Schedule
2020 - 2024 Financial Plan**

Asset Profile

Saanich Peninsula Water

One of the 16 CRD drinking water systems across the region, Saanich Peninsula Water Supply obtains treated drinking water from the Regional Water Supply System and is responsible for the bulk trunk water supply systems for Central Saanich, Sidney & North Saanich. Assets include land, 46 kilometres of water supply mains, nine balancing reservoirs, nine pumping stations, two pressure reducing stations, nine supply meters and two rechlorination stations.

Reserve/Fund Summary

	Actual	Estimate	Budget				
	2018	2019	2020	2021	2022	2023	2024
DCC Reserve Account	1,996,923	2,121,923	2,026,923	2,026,923	1,876,923	1,826,923	1,826,923
Equipment Replacement Fund	1,733,094	1,768,094	1,768,094	1,768,094	1,768,094	1,768,094	1,768,094
Capital Reserve	5,129,591	5,341,796	5,211,796	5,626,796	6,216,796	6,856,796	7,546,796
Total	8,859,607	9,231,812	9,006,812	9,421,812	9,861,812	10,451,812	11,141,812

2.610 Saanich Peninsula Water
Development Cost Charges
2020 - 2024 Financial Plan

Development Cost Charges Reserve Schedule

Reserve Fund: Saanich Peninsula Water Development Cost Charges (Bylaw # 3208)

Fund: 1009 Fund Center: 101353- DCC Water System only	Actual	Estimate	Budget				
	2018	2019	2020	2021	2022	2023	2024
Beginning Balance	1,468,517	1,996,923	2,121,923	2,026,923	2,026,923	1,876,923	1,826,923
Transfers to Reserve	243,422						
Transfers from Reserve based on DCC-capital plan	-	-	(95,000)	-	(150,000)	(50,000)	-
DCC's received from Member Municipalities	250,696	90,000					
Interest Income*	34,287	35,000					
Ending Balance \$	1,996,923	2,121,923	2,026,923	2,026,923	1,876,923	1,826,923	1,826,923

General Comments:

Saanich Peninsula Water Development Cost Charges (DCC's) was adopted in 2005 for the purpose of providing funds to assist with the capital costs of providing, constructing, altering or expanding the Districts water & wastewater systems that services the Member Municipalities.

The above cash flow only reflects DCC Reserve information for Water System only (Wastewater's information will be provided in the Wastewater budgets). These Reserve funds are received from member municipalities as Development Cost Charges (DCC's) to provide for the capital costs of water capacity system improvements within the service areas.

In December 2018 the bylaw was ammended to remove Develoment Cost Charges on new projects to recognize that the fund's balance exceeded the total of current development projects.

* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

2.610 Saanich Peninsula Water
Equipment Replacement Reserve Schedule
2020 - 2024 Financial Plan

Equipment Replacement Reserve Schedule

Reserve Fund: Saanich Peninsula Water-Equipment Replacement Reserve (covered by CRD-ERF Bylaw)

Fund: 1022 Fund Center: 101452	Actual	Estimate	Budget				
	2018	2019	2020	2021	2022	2023	2024
Beginning Balance	1,648,230	1,733,094	1,768,094	1,768,094	1,768,094	1,768,094	1,768,094
Equipment purchases (Based on Capital Plan)	-	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
Transfer from Operating Budget	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Interest Income*	34,864	35,000					
Ending Balance \$	1,733,094	1,768,094	1,768,094	1,768,094	1,768,094	1,768,094	1,768,094

General Comments: The fund is used to replace water system infrastructure throughout the system as failing components are identified and not funded through operating budgets.

* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

**2.610 Saanich Peninsula Water
Capital Reserve Fund
2020 - 2024 Financial Plan**

Capital Reserve Fund Schedule

Reserve Fund: Saanich Peninsula Water Capital Reserve Fund (Bylaw #1397)

Fund: 1009 Fund Center: 102159

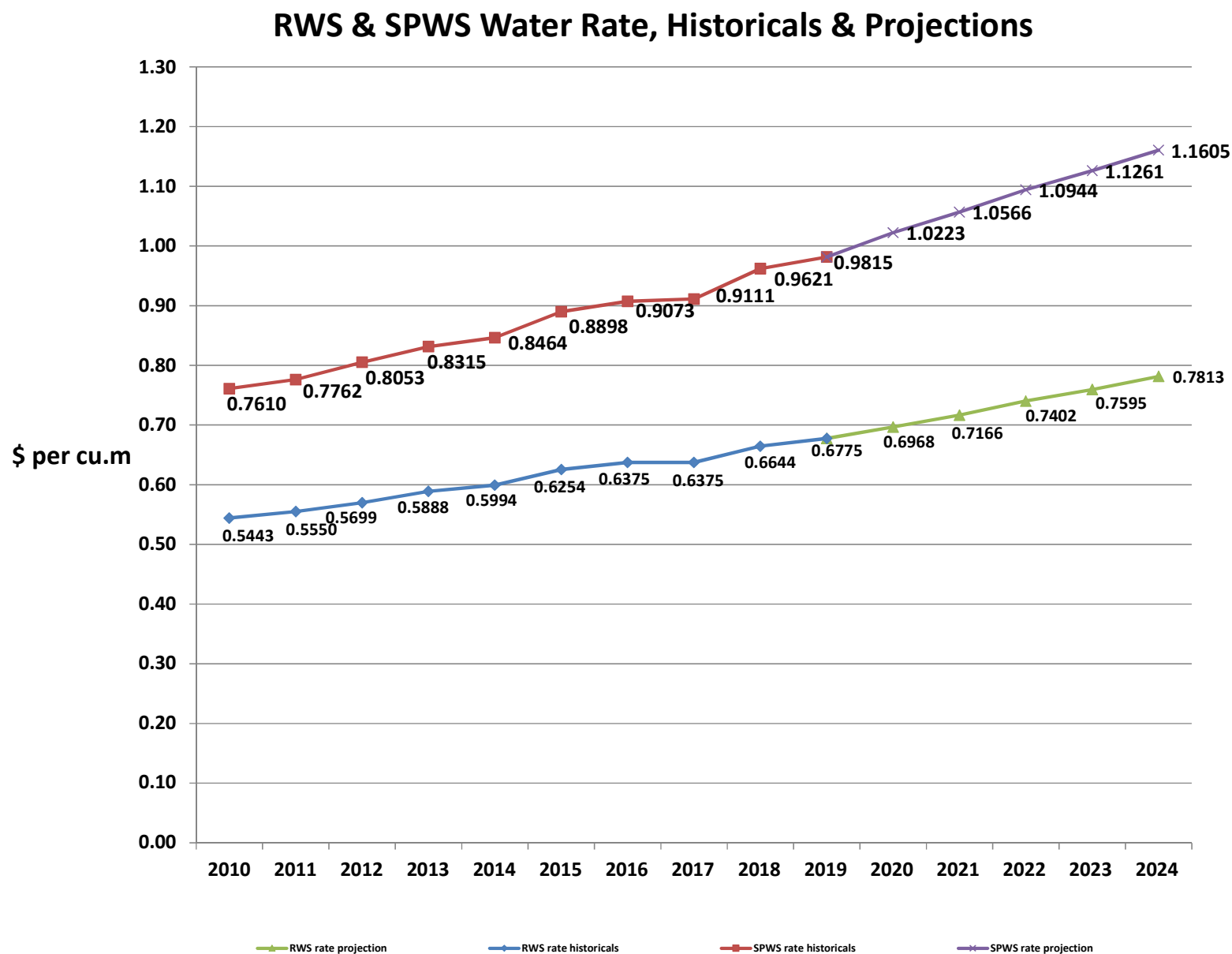
	Actual	Estimate	Budget				
	2018	2019	2020	2021	2022	2023	2024
Beginning Balance	5,104,492	5,129,591	5,341,796	5,211,796	5,626,796	6,216,796	6,856,796
Transfers from Reserve based on capital plan	(898,451)	(455,000)	(780,000)	(285,000)	(160,000)	(160,000)	(160,000)
Transfer from Operating Budget	832,363	612,205	650,000	700,000	750,000	800,000	850,000
Interest Income*	91,186	55,000					
Ending Balance \$	5,129,591	5,341,796	5,211,796	5,626,796	6,216,796	6,856,796	7,546,796

General Comments:

Saanich Peninsula Water Capital Reserve Fund was adopted in 1985 for the purpose of capital payments including planning, engineering and legal costs for providing, latering or expanding water system infrastructure related to the Saanich Peninsula Water Supply System.

The fund is used for the purpose of funding the Service Capital infrastructure related directly or indirectly to water facilities, (excluding DCC) capital expenditures.

* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.



REGIONAL WATER SUPPLY COMMISSION
Agricultural Water Rate Funding Comparisons 2011 - 2018

		No. of AR Accounts	No. of AG Accounts	AR Volume m3	AG Volume m3	Avg AR Volume m3 (Vol/Accts)	Avg AG Volume m3	Agri Rate Consumption Costs	Agri Fixed Charge Costs	Total Agri Subsidy Paid out (Cons + Fixed)	Avg Agri Cost \$ (Paid/Accts)	%age of Total Paid out	Rate Differential		
													Municipal Rate m3	Agri Rate m3	Muni-CRD Diff m3
													A	B	A - B
Western Communities & Sooke *															
	2018	95	18	40,657	19,669	428	1,093	\$ 112,411	\$ -	\$ 112,411	\$ 995	7.9%	\$ 2.0739	\$ 0.2105	\$ 1.8634
	2017	81	11	33,458	11,628	413	1,057	\$ 76,754	\$ -	\$ 76,754	\$ 834	5.6%	\$ 1.9129	\$ 0.2105	\$ 1.7024
	2016	80	11	41,248	8,652	516	787	\$ 84,950	\$ -	\$ 84,950	\$ 934	5.9%	\$ 1.9129	\$ 0.2105	\$ 1.7024
	2015	79	11	33,537	7,078	425	643	\$ 64,968	\$ -	\$ 64,968	\$ 722	5.1%	\$ 1.8101	\$ 0.2105	\$ 1.5996
	2014	79	11	29,419	9,074	372	825	\$ 60,769	\$ -	\$ 60,769	\$ 675	5.6%	\$ 1.7892	\$ 0.2105	\$ 1.5787
	2013	80	11	25,532	5,578	319	507	\$ 46,438	\$ -	\$ 46,438	\$ 510	4.7%	\$ 1.7032	\$ 0.2105	\$ 1.4927
	2012	79	13	23,617	5,932	299	456	\$ 40,828	\$ -	\$ 40,828	\$ 444	4.3%	\$ 1.5922	\$ 0.2105	\$ 1.3817
	2011	75	11	27,910	4,893	372	445	\$ 43,641	\$ -	\$ 43,641	\$ 507	5.2%	\$ 1.5409	\$ 0.2126	\$ 1.3283
Central Saanich															
	2018	278	49	263,207	412,819	947	8,425	\$ 866,699	\$ 7,003	\$ 873,702	\$ 2,672	61.3%	\$ 1.6350	\$ 0.2105	\$ 1.4245
	2017	296	49	398,087	298,522	1,345	6,092	\$ 792,125	\$ 7,003	\$ 799,128	\$ 2,316	58.7%	\$ 1.5575	\$ 0.2105	\$ 1.3470
	2016	297	51	446,241	303,419	1,502	5,949	\$ 879,396	\$ 7,191	\$ 886,587	\$ 2,548	61.1%	\$ 1.5139	\$ 0.2105	\$ 1.3034
	2015	294	51	412,060	246,292	1,402	4,829	\$ 739,282	\$ 7,144	\$ 746,426	\$ 2,164	58.4%	\$ 1.4582	\$ 0.2105	\$ 1.2477
	2014	294	49	361,801	190,895	1,231	3,896	\$ 596,515	\$ 6,808	\$ 603,323	\$ 1,759	55.7%	\$ 1.4033	\$ 0.2105	\$ 1.1928
	2013	296	45	321,518	194,848	1,086	4,330	\$ 542,837	\$ 4,186	\$ 547,023	\$ 1,604	55.7%	\$ 1.3799	\$ 0.2105	\$ 1.0525
	2012	280	41	325,663	210,906	1,163	5,144	\$ 518,454	\$ 5,658	\$ 524,112	\$ 1,633	55.6%	\$ 1.2841	\$ 0.2105	\$ 0.9662
	2011	210	38	312,702	169,206	1,489	4,453	\$ 462,183	\$ 5,244	\$ 467,427	\$ 1,885	56.1%	\$ 1.2867	\$ 0.2126	\$ 0.9667
North Saanich **															
	2018	100	16	97,574	70,666	976	4,417	\$ 220,982	\$ -	\$ 220,982	\$ 1,905	15.5%	\$ 1.5240	\$ 0.2105	\$ 1.3135
	2017	100	13	151,773	53,551	1,518	4,119	\$ 245,456	\$ -	\$ 245,456	\$ 2,172	18.0%	\$ 1.4643	\$ 0.2105	\$ 1.2538
	2016	100	12	148,450	36,774	1,485	3,065	\$ 230,697	\$ -	\$ 230,697	\$ 2,060	15.9%	\$ 1.4560	\$ 0.2105	\$ 1.2455
	2015	106	14	151,656	38,066	1,431	2,719	\$ 230,948	\$ -	\$ 230,948	\$ 1,925	18.1%	\$ 1.4278	\$ 0.2105	\$ 1.2173
	2014	98	14	133,853	30,372	1,366	2,169	\$ 194,919	\$ -	\$ 194,919	\$ 1,740	18.0%	\$ 1.3974	\$ 0.2105	\$ 1.1869
	2013	102	13	141,845	30,647	1,391	2,357	\$ 200,004	\$ -	\$ 200,004	\$ 1,739	20.4%	\$ 1.3700	\$ 0.2105	\$ 1.1595
	2012	99	13	117,497	45,227	1,187	3,479	\$ 188,679	\$ -	\$ 188,679	\$ 1,685	20.0%	\$ 1.3700	\$ 0.2105	\$ 1.1595
	2011	101	13	106,393	34,921	1,053	2,686	\$ 163,558	\$ -	\$ 163,558	\$ 1,435	19.6%	\$ 1.3700	\$ 0.2126	\$ 1.1574
Saanich															
	2018	70	49	37,503	111,896	536	2,284	\$ 208,786	\$ 9,996	\$ 218,782	\$ 1,839	15.3%	\$ 1.5910	\$ 0.2105	\$ 1.3805
	2017	80	50	38,201	132,092	478	2,642	\$ 229,604	\$ 9,719	\$ 239,324	\$ 1,841	17.6%	\$ 1.5600	\$ 0.2105	\$ 1.3495
	2016	71	53	36,409	139,764	513	2,637	\$ 237,745	\$ 10,056	\$ 247,802	\$ 1,998	17.1%	\$ 1.5600	\$ 0.2105	\$ 1.3495
	2015	75	51	74,841	129,225	998	2,534	\$ 226,276	\$ 9,727	\$ 236,003	\$ 1,873	18.5%	\$ 1.5420	\$ 0.2105	\$ 1.3315
	2014	72	53	46,230	177,633	642	3,352	\$ 213,981	\$ 9,883	\$ 223,863	\$ 1,791	20.7%	\$ 1.4560	\$ 0.2105	\$ 1.2455
	2013	65	50	35,745	122,456	550	2,449	\$ 179,004	\$ 9,655	\$ 188,659	\$ 1,641	19.2%	\$ 1.3420	\$ 0.2105	\$ 1.1315
	2012	68	47	38,212	138,455	562	2,946	\$ 180,466	\$ 9,235	\$ 189,701	\$ 1,650	20.1%	\$ 1.2320	\$ 0.2105	\$ 1.0215
	2011	71	46	101,235	121,896	1,426	2,650	\$ 149,584	\$ 9,118	\$ 158,703	\$ 1,356	19.0%	\$ 1.1530	\$ 0.2126	\$ 0.9404
Totals															
	2018	543	132	438,941	615,050	808	4,659	\$ 1,408,879	\$ 16,999	\$ 1,425,878	\$ 2,112	100%			
	2017	557	123	621,519	495,793	1,116	4,031	\$ 1,343,940	\$ 16,722	\$ 1,360,663	\$ 2,001	100%			
	2016	548	127	672,348	488,609	1,227	3,847	\$ 1,432,788	\$ 17,247	\$ 1,450,036	\$ 2,148	100%			
	2015	554	127	672,094	420,661	1,213	3,312	\$ 1,261,474	\$ 16,871	\$ 1,278,344	\$ 1,877	100%			
	2014	543	127	571,304	407,973	1,052	3,212	\$ 1,066,184	\$ 16,691	\$ 1,082,874	\$ 1,616	100%			
	2013	543	119	524,640	353,529	966	2,971	\$ 968,283	\$ 13,841	\$ 982,124	\$ 1,484	100%			
	2012	526	114	504,989	400,520	960	3,513	\$ 928,426	\$ 14,893	\$ 943,320	\$ 1,474	100%			
	2011	457	108	548,240	330,916	1,200	3,064	\$ 818,967	\$ 14,362	\$ 833,329	\$ 1,475	100%			

* Western Communities do not charge a fixed charge

** North Saanich charges the fixed charge on property taxes

*** AR - Agriculture/Residential customers receive a rebate on consumption over 455 cubic meters annual as the meter feeds both premise and land.
AG - Agriculture customers receive a rebate on the entire consumption annually as the meter is dedicated only for land.



CAPITAL REGIONAL DISTRICT REGIONAL WATER SUPPLY COMMISSION
Wednesday, September 18, 2019 at 11:30 AM

MEETING HOTSHEET
(ACTION LIST)

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.

7 ADOPTION OF THE MINUTES

Recommendation:

That the minutes of the June 19, 2019 Regional Water Supply Commission meeting be adopted as circulated.

CARRIED

8 COMMISSION BUSINESS

- 8.1 Proposed Transfer of the Admirals Road Water Main from the Juan de Fuca Water Distribution Service to the Regional Water Supply Service

Recommendation:

That the Regional Water Supply Commission:

Approve the transfer of the Admirals Road Water Main to the Regional Water Supply Service from the Juan de Fuca Water Distribution Service in fiscal 2020.

Amendment to the main motion:

That the motion be amended to add the following wording to the end of the motion: "with the costs associated with the transmission function of the main being apportioned to the regional service."

DEFEATED

Opposed:

**Hicks, Potts, Rogers, De Vries, Zhelka, Harper, Graham, Young, Baird,
 Duncan, Kahakauwila, Logan, Chambers, Taylor, Loveday, Szpak, Wade
 St. Pierre, Morrison**

CARRIED

Opposed: Isitt, Young

- 8.2 Guidelines for Canadian Drinking Water Quality – Recent Change in Lead Guideline and Capital Regional District Actions

Recommendation:

That the Regional Water Supply Commission receive this report for information.

CARRIED

Action: The Commission requested that staff prepare a report on the options for engaging and informing the public with respect to lead safety, including costs and implications.

8.3 Cross Connection Control Bylaw No. 3516 - Amendment

Item was postponed.

8.4 Summary of the 2019 Public and School Tours of the Greater Victoria Water Supply Area and Water Supply Facilities

Item was postponed.

8.5 Summary of Recommendations from Other Water Commissions

Recommendation:

That the Regional Water Supply Commission receive the Recommendations from Other Water Commissions for information.

CARRIED

8.6 Weekly Water Watch Report

Recommendation:

That the Regional Water Supply Commission receive the September 8, 2019 Weekly Water Watch report for information.

CARRIED

9 MOTION WITH NOTICE

9.1 Regional Water Supply Commission Support of the Provincial Water Conservation Measures; N.Chambers

Item was postponed.



CAPITAL REGIONAL DISTRICT REGIONAL WATER SUPPLY COMMISSION
Wednesday, June 19, 2019 at 11:30 AM

MEETING HOTSHEET
(ACTION LIST)

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.

2 ADOPTION OF THE MINUTES OF MAY 15, 2019

Recommendation:

That the minutes of the May 15, 2019 Regional Water Supply Commission meeting be adopted as circulated.

CARRIED

7 COMMISSION BUSINESS

7.1 Demand Management Program Overview

Recommendation:

That the Regional Water Supply Commission receive this report for information.

CARRIED

7.2 Greater Victoria Drinking Water Quality - 2018 Annual Report

Recommendation:

That the Regional Water Supply Commission recommend to the Capital Regional District Board:

That the Greater Victoria Drinking Water Quality 2018 Annual Report be approved.

CARRIED

7.3 Leech Water Supply Area Restoration Update

Recommendation:

That the Regional Water Supply Commission receive the report, Leech Water Supply Area Restoration Update, for information.

CARRIED

- 7.4 Request for Bulk Water Supply Connection from Supply Main No. 4 for District of Central Saanich

Recommendation:

That the Regional Water Supply Commission recommend that the Waterworks Extension Agreement be executed.

CARRIED

- 7.5 Summary of Recommendations from Other Water Commissions

Recommendation:

That the Regional Water Supply Commission receive the Recommendations from Other Water Commissions for information.

CARRIED

- 7.6 Weekly Water Watch Report May 5, 2019

Recommendation:

That the Regional Water Supply Commission receive the June 9, 2019 Weekly Water Watch report for information.

CARRIED



CAPITAL REGIONAL DISTRICT REGIONAL WATER SUPPLY COMMISSION
Wednesday, May 15, 2019 at 11:30 AM

MEETING HOTSHEET
(ACTION LIST)

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.

2 ADOPTION OF THE MINUTES OF MARCH 20, 2019

Recommendation:

That the Regional Water Supply Commission adopt the minutes of the meeting held March 20, 2019.

CARRIED

5 GENERAL MANAGERS REPORT

Recommendation:

That the Regional Water Supply Commission receive the General Managers report for information.

CARRIED

6 COMMISSION BUSINESS

6.1 RWSC 19-05 Fisheries Water Release Program

Recommendation:

That the Regional Water Supply Commission:

1. Endorse the proposed Fisheries Water Release Plan as set out in Table 2 of Appendix 2;
2. Direct staff to engage with the T'Sou-ke Nation regarding the proposed Fisheries Water Release Plan and the (expired) 2002 Agreement;
3. Direct staff to seek approval of the proposed Fisheries Water Release Plan from the Federal Department of Fisheries and Oceans Canada and Provincial Ministry of Environment & Climate Change Strategy and Forests, Lands, Natural Resources Operations & Rural Development, as required; and
4. Direct staff to pursue amending the CRD's Provincial Conditional Water Licence for Goldstream River/Waugh Creek to include an authorization to store and release water for the purpose of conserving fish and fish habitat, in accordance with the release schedule in Table 2 (Appendix 2).

CARRIED

6.2 RWSC 19-01 Watershed Hydrology Monitoring Plan – Leech Water Supply Area

Recommendation:

That the Regional Water Supply Commission receive the staff report, *Watershed Hydrology Monitoring Plan – Leech Water Supply Area*, for information.

CARRIED

Action Item:

Staff to provide available historical reports regarding contaminants in the Leech Water Supply for the commission's information.

6.3 Weekly Water Watch Report May 5, 2019

Recommendation:

That the Regional Water Supply Commission receive the Water Watch report for information.

CARRIED

Action Item:

Key messaging about water conservation, with respect to climate change, be discussed at an upcoming Water Advisory Committee meeting.



Making a difference...together

CAPITAL REGIONAL DISTRICT REGIONAL WATER SUPPLY COMMISSION

Wednesday, March 20, 2019 at 11:30 AM

MEETING HOTSHEET (ACTION LIST)

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.

2. ADOPTION OF THE MINUTES OF FEBRUARY 20, 2019

Recommendation:

That the Regional Water Supply Commission adopt the minutes of the meeting held February 20, 2019.

CARRIED

5. COMMISSION BUSINESS

5.1. RWSC 19-03 2018 Wildfire Season – Greater Victoria Water Supply Area

Recommendation:

That the Regional Water Supply Commission receive the staff report for information.

CARRIED

5.2. RWSC 19-10 Greater Victoria Water Supply Area Mining Access Requests

Recommendation:

That the Regional Water Supply Commission authorize access and special use to:

- a) The mining tenure holder; and,
- b) Accompanying agents and free miners whose status can be confirmed, and that meet CRD insurance requirements;

For the valid mining tenures held, subject to the conditions of the Access Agreement.

CARRIED

5.3. RWSC 19-11 Regional Water Supply Service – 2018 Financial Performance

Recommendation: That the Regional Water Supply Commission receive the staff report for information.

CARRIED

5.4. March 13, 2019 CRD Regional Board Resolution:

Recommendation: That the Regional Water Supply Commission receive the staff report for information.

CARRIED

5.5. WATER WATCH

Recommendation: That the Regional Water Supply Commission receive the Water Watch report for information.

CARRIED

7. MOTION TO CLOSE THE MEETING

In accordance with the Community Charter, Part 4, Division 3, 90(1)(g) litigation or potential litigation affecting the municipality; and **90(1)(a)** personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality.

CARRIED



Making a difference...together

**CAPITAL REGIONAL DISTRICT
JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Meeting held Tuesday, October 1, 2019**

**MEETING HOTSHEET
(ACTION LIST)**

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.

2. Adoption of Minutes of July 2, 2019 meeting

That the minutes of the July 2, 2019 Juan de Fuca Water Distribution Commission meeting be adopted as circulated.

CARRIED

7. Commission Business

7.1. JWDC 19-12 Juan de Fuca Water Distribution Service – 2020 Operating and Capital Budget

That the Juan de Fuca Water Distribution Commission recommends that the Capital Regional District Board:

1. Approve the 2020 Capital Budget and the Five Year Capital Plan;
2. Approve the 2020 Operating Budget;
3. Approve the 2020 Juan de Fuca Water Distribution Service retail water rate of \$2.2159 per cubic metre, adjusted if necessary by any change in the Regional Water Supply wholesale water rate; and
4. Amend the Water Distribution Local Service Conditions, Fees and Charges Bylaw accordingly.

CARRIED



Making a difference...together

**CAPITAL REGIONAL DISTRICT
JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Meeting held Tuesday, July 2, 2019**

**MEETING HOTSHEET
(ACTION LIST)**

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.

2. Adoption of Minutes of June 4, 2019 meeting

That the minutes of the June 4, 2019 Juan de Fuca Water Distribution Commission meeting be adopted as circulated.

CARRIED

7. Commission Business

7.1. JWDC 19-11 Proposed Transfer of the Admirals Road Water Main from the Juan de Fuca Water Distribution Service to the Regional Water Supply Service

That the Juan de Fuca Water Distribution Commission:

Approve the transfer of the Admirals Road Water Main to the Regional Water Supply Service in principle, and direct staff to prepare a report to the Regional Water Supply Commission recommending transfer of the Admirals Road Water Main from the Juan de Fuca Water Distribution Service to the Regional Water Supply Service.

CARRIED

7.2. JWDC 19-09 Implications Related to Provision of Limited Financial Assistance for Property Damage Resulting from a Water Main Failure

That the Juan de Fuca Water Distribution Commission direct staff not to further examine options to provide financial assistance for property damage resulting from a failure, breakdown or malfunction.

CARRIED

That the Juan de Fuca Water Distribution Commission request that staff investigate options for communicating to the public that property owners are responsible for carrying insurance to provide coverage for losses resulting from a local government water main breakdown or malfunction.

CARRIED

7.3. Summary of Recommendations from Other Water Commissions

That the Juan de Fuca Water Distribution Commission receive the Recommendations from Other Water Commissions for information.

CARRIED

7.4. Water Watch Report

That the Juan de Fuca Water Distribution Commission receive the June 23, 2019 Weekly Water Watch Report for information.

CARRIED

8. Notice of Motion – District of Sooke, June 5, 2019

That the Juan de Fuca Water Distribution Commission Support the extension of water infrastructure to North Sooke in conjunction with Highway 14 construction activity, at no cost to the Juan de Fuca Water Service or the existing ratepayers.

DEFEATED
Unanimous

That the Juan de Fuca Water Distribution Commission support, in principle, the extension of water infrastructure to North Sooke in conjunction with Highway 14 construction activity, at no cost to the Juan de Fuca Service with respect to the initial Capital Costs, and direct staff to report back to the Commission when a definitive plan is advanced by the Ministry of Transportation and Infrastructure.

CARRIED



Making a difference...together

**CAPITAL REGIONAL DISTRICT
JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Meeting held Tuesday, June 4, 2019**

**MEETING HOTSHEET
(ACTION LIST)**

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.

2. Adoption of Minutes of May 7, 2019 meeting

That the minutes of the May 7, 2019 Juan de Fuca Water Distribution Commission meeting be adopted as circulated.

CARRIED

7. Commission Business

7.1. JWDC 19-06 Implications of Waiving or Reducing DCC for Eligible Developments

That the Juan de Fuca Water Distribution Commission receive the report, Implications of Waiving or Reducing Development Cost Charges for Eligible Developments, for information and direct staff to not proceed with preparing a DCC Waivers and Reductions bylaw for eligible affordable housing development.

CARRIED

7.2. JWDC 19-10 Proposed Florence Lake Improvement District (FLID) Conversion

That the Juan de Fuca Water Distribution Commission recommends to the Capital Regional District Board that:

A. Staff be directed to commence a service conversion process with the Province to convert the Florence Lake Improvement District (FLID) to a Capital Regional District (CRD) service which, when concluded, would result in incorporating the FLID water infrastructure into the Juan de Fuca Water Distribution Service; and establishing a new service for the purpose of CRD financing of the infrastructure improvements required as a condition of conversion, and dissolving the FLID; and

B. Apply for any available conversion or infrastructure grants on FLID's behalf.

CARRIED

7.3. Summary of Recommendations from Other Water Commissions

That the Juan de Fuca Water Distribution Commission receive the Recommendations from Other Water Commissions for information.

CARRIED

7.4. Water Watch Report

That the Juan de Fuca Water Distribution Commission receive the Water Watch Report for information.

CARRIED



Making a difference...together

**CAPITAL REGIONAL DISTRICT
JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Meeting held Tuesday, May 7, 2019**

**MEETING HOTSHEET
(ACTION LIST)**

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.

2. Adoption of Minutes of April 2, 2019 meeting

Recommendation:

That the Juan de Fuca Water Distribution Commission adopt the minutes of the meeting held April 2, 2019.

CARRIED

3. Correction and Adoption of Minutes of February 5, 2019 Meeting

Recommendation:

That the minutes of the February 5, 2019 meeting be corrected to show that it was Commissioner Wade who opposed the resolution of Item 5.2, Request to Waive Juan de Fuca Water Development Cost Charges, not Commissioner Rogers and adopt the minutes as amended.

CARRIED

6. Commission Business

6.1. JWDC 19-07 Sunriver Reservoir Civil Claim Settlement and Implications

Recommendation:

That the Juan de Fuca Water Distribution Commission direct staff to:

1. Draft an agreement for Commission approval, between Sunriver Estates Ltd. and the CRD for the transfer of land for the new and future reservoirs and funding for required development reservoir capacity;
2. Proceed with the design and construction of a new bolted steel reservoir to provide capacity for the future development requirements and to compensate for lost storage capacity in the existing reservoir; and
3. Fund the Juan de Fuca Water Distribution share of the new bolted steel reservoir with up to \$930,000 in funds remaining in the Sunriver Reservoir Capital Project 15-02.

CARRIED

6.2. JWDC 19-08 Proposed Bulk Water Station on Otter Point Road

Recommendation:

1. That the Juan de Fuca Water Distribution Commission:

Direct staff to proceed with the design and construction of a Bulk Water Station on Otter Point Road and adjust the 2019 Capital Plan for the service in the amount of \$140,000, of which up to \$90,000 will be funded from Capital Funds on hand and \$50,000 will be funded from Juan de Fuca Electoral Area Community Works fund, with no increase in 2019 Capital plan funding; and

2. That the Juan de Fuca Water Distribution Commission recommend to the CRD Board:

That the 2019 Capital Plan for the service be adjusted to include the Bulk Water Station on Otter Point Road and adjust the Capital Plan in the amount of \$140,000, of which up to \$90,000 will be funded from Capital Funds on hand and \$50,000 will be funded from Juan de Fuca Electoral Area Community Works fund.

CARRIED

6.3. Summary of Recommendations from Other Water Commissions

Recommendation:

That the Juan de Fuca Water Distribution Commission receive the report for information.

CARRIED

6.4. Water Watch Report

Recommendation:

That the Juan de Fuca Water Distribution Commission receive the report for information.

CARRIE



Making a difference...together

**CAPITAL REGIONAL DISTRICT
JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Meeting held Tuesday, April 2, 2019**

**MEETING HOTSHEET
(ACTION LIST)**

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.

2. Adoption of Minutes of March 5, 2019

Recommendation:

That the Juan de Fuca Water Distribution Commission adopt the minutes of the meeting held March 5, 2019.

CARRIED

6. Commission Business

6.1. JWDC 19-04 2018 Financial Performance

Recommendation:

That the Juan de Fuca Water Distribution Commission receive the report for information.

CARRIED

6.2. JWDC 19-05 Development Cost Charge - Recent Activity

Recommendation:

That the Juan de Fuca Water Distribution Commission receive the report for information.

6.3. Summary of Recommendations from Other Water Commissions

Recommendation:

That the Juan de Fuca Water Distribution Commission receive the report for information.

CARRIED

6.4. Water Watch Report

Recommendation:

That the Juan de Fuca Water Distribution Commission receive the report for information.

CARRIED

7. New Business

Motion: That the Juan de Fuca Water Distribution Commission request that staff prepare a report for the next meeting, outlining the financial and Capital Plan implications of including the addition of a new Bulk Water Station on Otter Point Road to the 2019 Capital Program.

CARRIED

CAPITAL REGIONAL DISTRICT - INTEGRATED WATER SERVICES

Water Watch

Issued October 07, 2019

Water Supply System Summary:

1. Useable Volume in Storage:

Reservoir	October 31 5 Year Ave		October 31/18		October 6/19		% Existing Full Storage
	ML	MIG	ML	MIG	ML	MIG	
Sooke	64,739	14,243	60,374	13,282	63,632	13,999	68.6%
Goldstream	5,980	1,316	5,980	1,316	4,019	884	40.9%
Total	70,719	15,558	66,354	14,598	67,651	14,883	66.0%

2. Average Daily Demand:

For the month of October	113.0 MLD	24.85 MIGD
For week ending October 06, 2019	113.2 MLD	24.90 MIGD
Max. day October 2019, to date:	117.3 MLD	25.81 MIGD

3. Average 5 Year Daily Demand for October

Average (2014 - 2018)	109.0 MLD ¹	23.98 MIGD ²
-----------------------	------------------------	-------------------------

¹MLD = Million Litres Per Day

²MIGD = Million Imperial Gallons Per Day

4. Rainfall October:

Average (1914 - 2018):	169.9 mm
Actual Rainfall to Date	15.2 mm (9% of monthly average)

5. Rainfall: Sep 1- Oct 6

Average (1914 - 2018):	83.3 mm
2019	131.8 mm (158% of average)

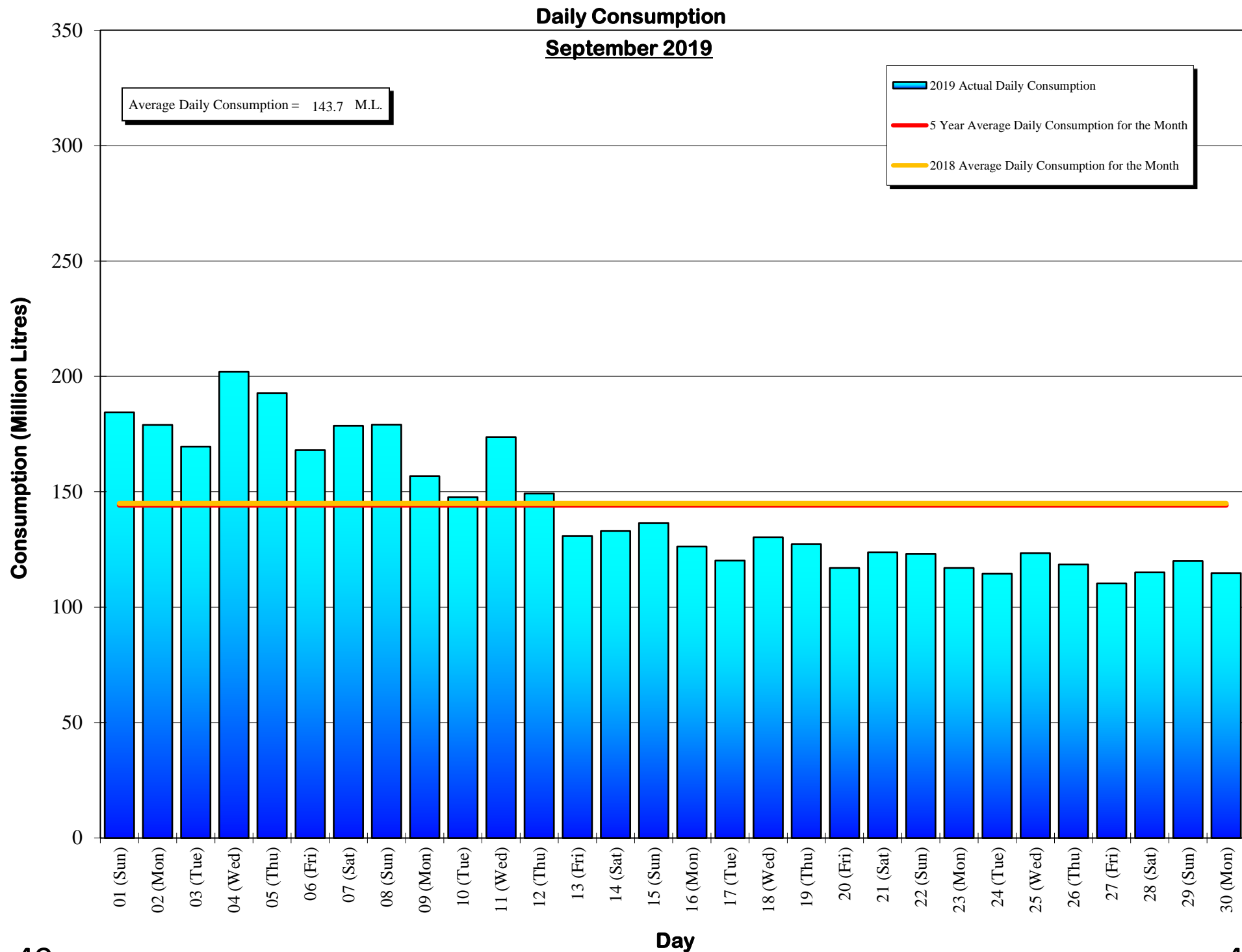
6. Water Conservation Action Required:

If each of us saves a little, together we can save a lot.
Check our website at www.crd.bc.ca/water for more information.

If you require further information, please contact:

Ted Robbins, B.Sc., C.Tech
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 Consumptions: - September 2019

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 (Sun)	184.4		23	14	Sunny / P. Cloudy	0.0	0.0	0.0
02 (Mon)	179.0		24	13	Sunny	0.0	0.0	0.0
03 (Tue)	169.6		27	14	Sunny / P. Cloudy	0.0	0.0	0.0
04 (Wed)	202.0	<=Max	23	13	Sunny	0.0	0.0	0.0
05 (Thu)	192.8		26	13	Sunny / P. Overcast	0.0	0.0	0.0
06 (Fri)	168.1		27	14	Sunny / P. Cloudy	0.0	0.0	0.0
07 (Sat)	178.6		22	13	Sunny / P. Cloudy	0.0	0.0	0.0
08 (Sun)	179.1		22	14	Cloudy / P. Sunny	0.0	0.0	0.0
09 (Mon)	156.8		18	12	Cloudy / Rain	16.0	0.0	16.0
10 (Tue)	147.7		18	12	Cloudy / P. Sunny	0.0	0.0	0.0
11 (Wed)	173.7		19	12	Sunny / P. Cloudy	0.0	0.0	0.0
12 (Thu)	149.3		16	13	Cloudy / Rain	30.7	0.0	30.7
13 (Fri)	130.9		18	13	Cloudy / Showers	4.6	0.0	4.6
14 (Sat)	133.0		17	13	Cloudy / Showers	13.2	0.0	13.2
15 (Sun)	136.5		18	10	Cloudy / Showers / P. Sunny	2.8	0.0	2.8
16 (Mon)	126.3		16	10	Cloudy / P. Sunny	0.0	0.0	0.0
17 (Tue)	120.2		15	11	Cloudy / Rain	22.9	0.0	22.9
18 (Wed)	130.3		17	11	Cloudy / Showers	1.3	0.0	1.3
19 (Thu)	127.3		18	10	Cloudy / Showers	0.5	0.0	0.5
20 (Fri)	117.0		18	11	Sunny / P. Cloudy	0.0	0.0	0.0
21 (Sat)	123.8		17	10	Cloudy / Showers / P. Sunny	0.8	0.0	0.8
22 (Sun)	123.1		16	13	Cloudy / Showers	4.8	0.0	4.8
23 (Mon)	117.0		14	11	Cloudy / Showers	10.1	0.0	10.1
24 (Tue)	114.5		19	10	Sunny / P. Cloudy	0.0	0.0	0.0
25 (Wed)	123.4		17	8	Sunny / P. Cloudy / Showers	0.8	0.0	0.8
26 (Thu)	118.5		18	11	Cloudy / Showers / P. Sunny	4.3	0.0	4.3
27 (Fri)	110.3	<=Min	15	7	Cloudy / Showers / P. Sunny	3.8	0.0	3.8
28 (Sat)	115.1		14	7	Sunny / P. Cloudy	0.0	0.0	0.0
29 (Sun)	120.0		13	7	Cloudy / P. Sunny	0.0	0.0	0.0
30 (Mon)	114.8		14	5	Sunny / P. Cloudy	0.0	0.0	0.0
TOTAL	4168.3 ML	917.03 MIG				116.6	0	116.6
MAX	202.0	44.45	27	14		30.7	0	30.7
AVE	143.7	31.41	18.6	11.2		3.9	0	3.9
MIN	110.3	24.27	13	5		0.0	0	0.0

1. ML = Million Litres

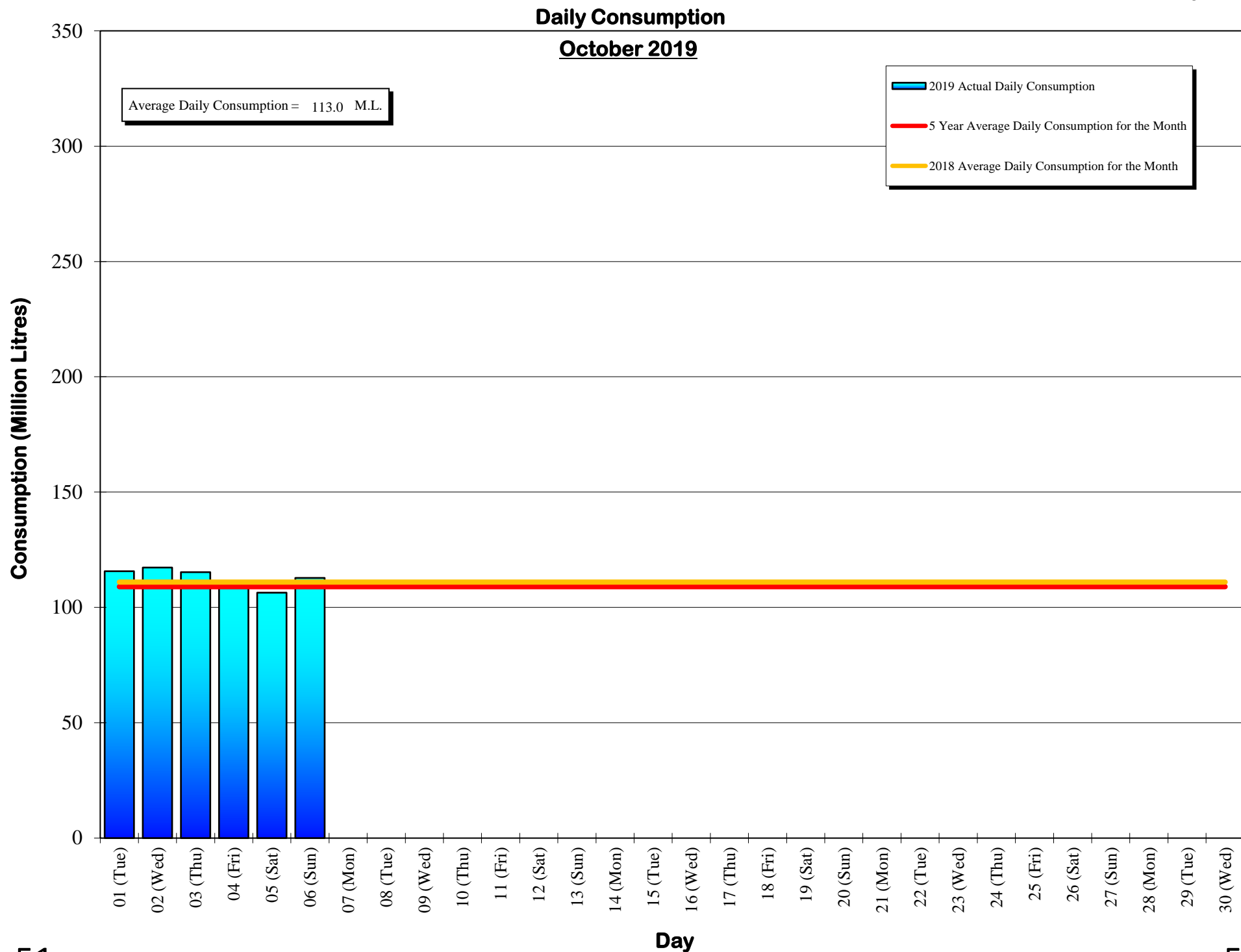
2. MIG = Million Imperial Gallons

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

Average Rainfall for September (1914-2018)	64.2 mm
Actual Rainfall: September	116.6 mm
% of Average	182%
Average Rainfall (1914-2018): Sept 01 - Sep 30	64.2 mm
Actual Rainfall (2019): Sept 01 - Sep 30	116.6 mm
% of Average	182%

Number days with precip. 0.2 or more
14

Water spilled at Sooke Reservoir to date (since Sept. 1) = 0.00 Billion Imperial Gallons
 = 0.00 Billion Litres



Daily Consumptions: - October 2019

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 (Tue)	115.7		25.4	15	4	Sunny / P. Cloudy	0.0	0.0	0.0
02 (Wed)	117.3	<=Max	25.8	13	6	Cloudy / Showers / P. Sunny	1.0	0.0	1.0
03 (Thu)	115.3		25.4	14	7	Cloudy / Showers / P. Sunny	1.8	0.0	1.8
04 (Fri)	110.3		24.3	11	7	Cloudy / Showers / P. Sunny	9.4	0.0	9.4
05 (Sat)	106.4	<=Min	23.4	13	7	Cloudy / Showers / P. Sunny	3.0	0.0	3.0
06 (Sun)	112.8		24.8	14	5	Cloudy / P. Sunny	0.0	0.0	0.0
07 (Mon)									
08 (Tue)									
09 (Wed)									
10 (Thu)									
11 (Fri)									
12 (Sat)									
13 (Sun)									
14 (Mon)									
15 (Tue)									
16 (Wed)									
17 (Thu)									
18 (Fri)									
19 (Sat)									
20 (Sun)									
21 (Mon)									
22 (Tue)									
23 (Wed)									
24 (Thu)									
25 (Fri)									
26 (Sat)									
27 (Sun)									
28 (Mon)									
29 (Tue)									
30 (Wed)									
31 (Thu)									
TOTAL	677.8 ML		149.1 MIG				15.2	0	15.2
MAX	117.3		25.81	15	7		9.4	0	9.4
AVE	113.0		24.85	13.3	6.0		2.5	0	2.5
MIN	106.4		23.41	11	4		0.0	0	0.0

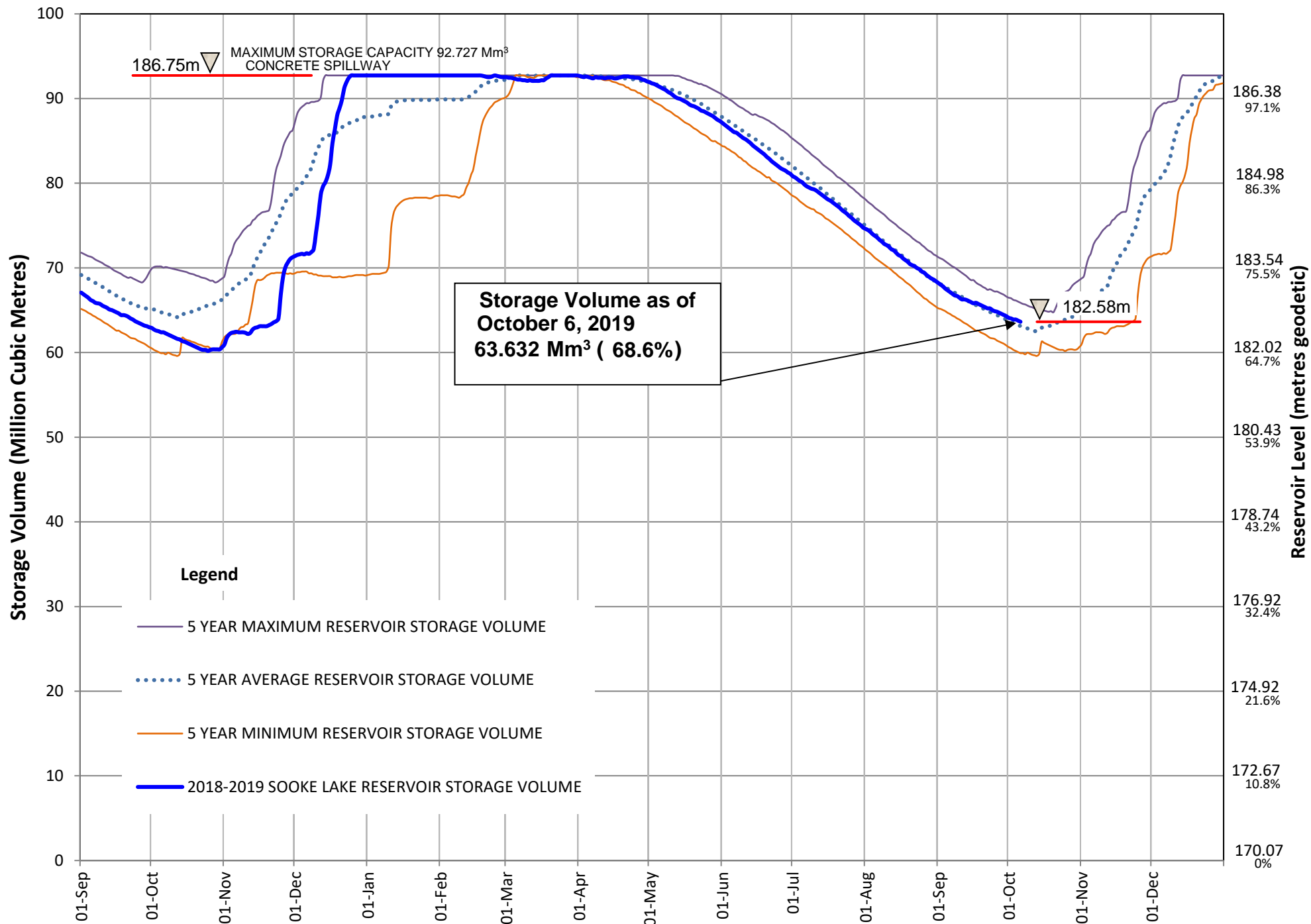
1. ML = Million Litres 2. MIG = Million Imperial Gallons 3. 10% of snow depth applied to rainfall figures for snow to water equivalent.

Average Rainfall for October (1914-2018)	169.9 mm
Actual Rainfall: October	15.2 mm
% of Average	9%
Average Rainfall (1914-2018): Sept 01 - Oct 06	83.3 mm
Actual Rainfall (2019): Sept 01 - Oct 06	131.8 mm
% of Average	158%

Number days with precip. 0.2 or more
4

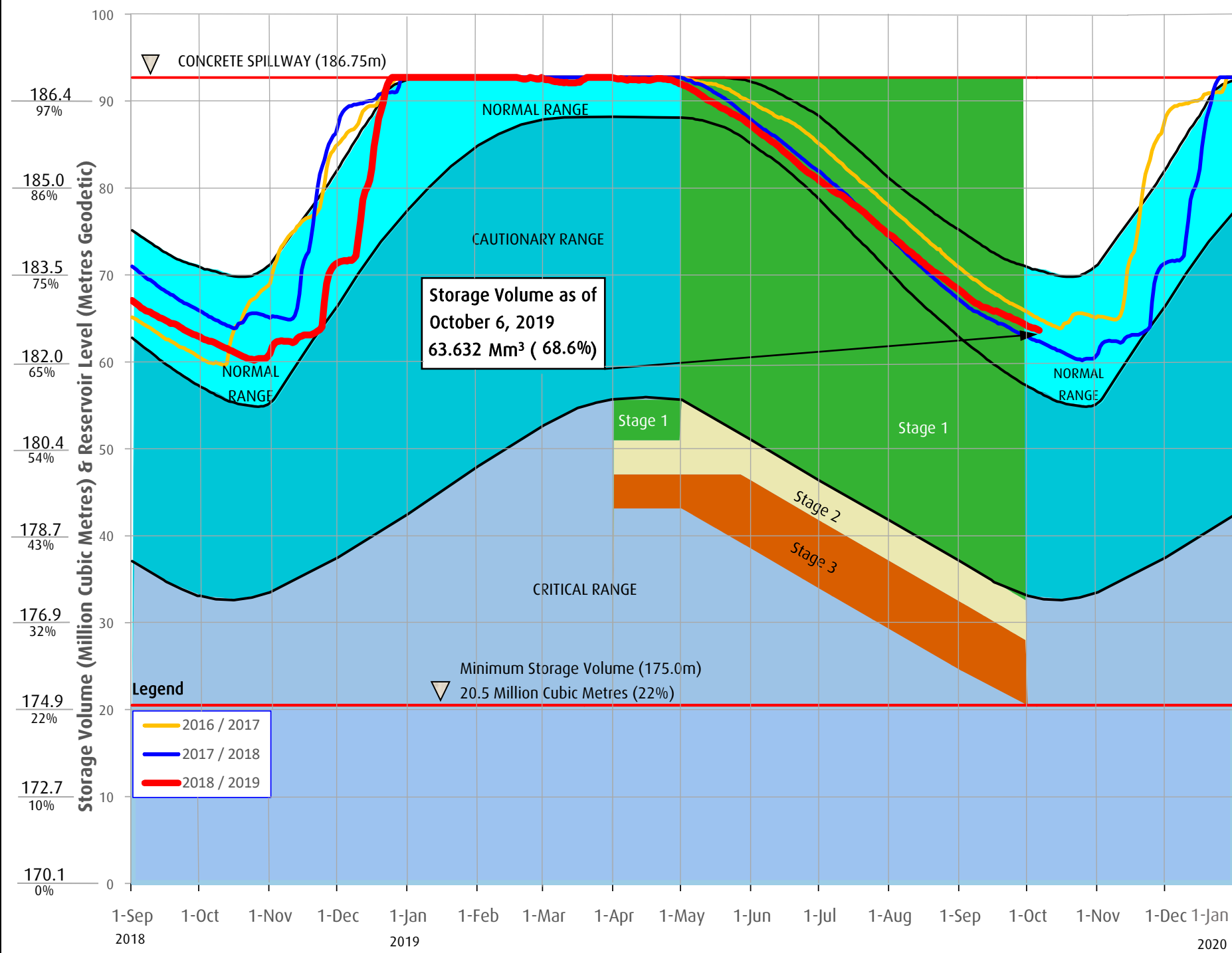
Water spilled at Sooke Reservoir to date (since Sept. 1) = 0.00 Billion Imperial Gallons
= 0.00 Billion Litres

SOOKE LAKE RESERVOIR STORAGE SUMMARY 2018 / 2019



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 down rates;
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 Commisison 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 October 06, 2019

