

JUAN DE FUCA WATER DISTRIBUTION COMMISSION

Notice of Meeting on **Tuesday, July 2, 2019 at 12 p.m.**

Goldstream Room, 479 Island Highway, Victoria, BC

G. Logan (Chair)
J. Rogers (Vice Chair)
G. Baird
M. Hicks

K. Kahakauwila
B. Parkinson
L. Szpak
R. Wade

AGENDA Lunch will be served

1. Approval of Agenda
2. Adoption of Minutes of June 4, 20193
3. Chair's Remarks
4. Presentations/Delegations
 - 4.1. Presentations
 - 4.2. Delegations
5. Business Arising
6. General Manager's Report
 - 6.1. Nothing to report
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 Service6
Recommendation:
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.
 - 7.2. **JWDC 19-09** Implications Related to Provision of Limited Financial Assistance for Property Damage Resulting from a Water Main Failure 10
Recommendation:
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.

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

**Juan de Fuca Water Distribution Commission
Agenda – July 2, 2019**

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7.3. Summary of Recommendations from Other Water Commissions15

Recommendation:

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

7.4. Weekly Water Watch Report.....17

Recommendation:

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

8. Notice of Motion – District of Sooke, June 5, 201922

THEREFORE, the District of Sooke calls upon the Capital Regional District Water Commission and the Juan de Fuca Water Distribution Service to support extension of water infrastructure to North Sooke in conjunction with Highway 14 construction activity.

9. New Business

10. Adjournment

Note: Next Meeting: Tuesday, September 3, 2019

**MINUTES OF A MEETING OF THE JUAN DE FUCA WATER DISTRIBUTION COMMISSION,
Held Tuesday, June 4, 2019 at 12 p.m., Goldstream Conference Room, 479 Island Highway,
Victoria, BC**

PRESENT: **Commissioners:** G. Logan (Chair); G. Baird; M. Hicks; J. Rogers; L. Szpak
Staff: R. Lapham, CAO; T. Robbins, General Manager; I. Jesney, Infrastructure Operations; J. Marr; Infrastructure Engineering; D. Dionne (Recorder)
Absent: K. Kahakauwila; B. Parkinson; R. Wade

The meeting was called to order at 12:00 p.m.

The Chair welcomed R. Lapham.

1. Approval of Agenda

MOVED by Commissioner Rogers, **SECONDED** by Commissioner Baird,
That the agenda for the June 4, 2019 Juan de Fuca Water Distribution Commission meeting
be approved as circulated.

CARRIED

2. Adoption of Minutes of May 7, 2019

MOVED by Commissioner Rogers, **SECONDED** by Commissioner Baird,
That the minutes of the May 7, 2019 Juan de Fuca Water Distribution Commission meeting
be adopted as circulated.

CARRIED

3. Chair's Remarks

The Chair had no remarks.

4. Presentations/Delegations

There were no presentations or delegation.

5. Business Arising

There was none.

6. General Manager's Report

6.1. Upcoming Business and Reports

T. Robbins advised that staff are working on the following reports for the Commission:

- Implications of providing financial assistance for property damage caused by water main breaks. Report is in response to a request from the Commission related to the Strathmore Road main break.
- Proposed transfer of Admirals water main to Regional Water Supply. He noted that this section of water main was replaced by the Juan de Fuca Water Distribution Service due to Ministry of Transportation wanting to repave that road. This main provides water to

Victoria and Esquimalt and continues to operate like a transmission main. There has also been a request from Esquimalt Nation to review servicing under a Regional Service Agreement.

- With the announcement of the large development proposed in Langford at Goldstream and Peat, staff are reviewing the need to advance the main replacements off Goldstream Avenue as part of the development servicing. There are some significant road improvements proposed at the roundabouts which would be constructed over top of the Juan de Fuca Asbestos Cement main and the transmission main on the Goldstream.

The Commission requested that staff poll members for availability for the July 2, 2019 meeting.

7. Commission Business

7.1. JWDC 19-06 Implications of Waiving or Reducing Development Cost Charges (DCC) for Eligible Developments

I. Jesney spoke to the report reviewing the definition of “Eligible Housing” and the requirements to allow a waiver.

Discussion ensued and staff responded to questions and the following was noted:

- The collection of DCC’s by municipalities is under separate bylaw from the Capital Regional District (CRD), the decision to waive at the municipal level would be specific to their bylaws and programs.
- Under Provincial requirement any DCC program must specify which DCC is funding which program.

MOVED by Commissioner Rogers, **SECONDED** by Commissioner Szpak,

That the Juan de Fuca Water Distribution Commission receive the report, Implications of Waiving or Reducing Development Cost Charges (DCC) 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

T. Robbins reviewed a map of the area and provided background on the FLID. He noted that a review of the infrastructure (Attachment 3 of the staff report) satisfied the requirements of the CRD with some maintenance required to upgrade to current standards. The CRD would establish a Service Area, to fund the \$300,000 infrastructure upgrades, which would be dissolved once the debt has been paid down.

He noted that CRD Corporate Services would facilitate getting a formal petition from each of the ratepayers (17 properties in total) and there would be no need for a referendum. He also advised that there may be conversion grants that the CRD can apply for on their behalf.

Discussion ensued and staff responded to questions from the Commission with the following noted:

- With the completion of the infrastructure work, the improvement district members would become water customers of the Juan de Fuca Water Service, there would be no financial burden to this service or to the municipalities.

MOVED by Commissioner Rogers, **SECONDED** by Commissioner Baird,
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

MOVED by Commissioner Rogers, **SECONDED** by Commissioner Baird,
That the Juan de Fuca Water Distribution Commission receive the Recommendations from Other Water Commissions for information.

CARRIED

7.4. Water Watch Report

MOVED by Commissioner Szpak, **SECONDED** by Commissioner Rogers,
That the Juan de Fuca Water Distribution Commission receive the Water Watch Report for information.

CARRIED

8. New Business

There was no new business.

9. Adjournment

MOVED by Commissioner Szpak, **SECONDED** by Commissioner Baird,
That the June 4, 2019 Juan de Fuca Water Distribution Commission meeting be adjourned at 12:28 p.m.

CARRIED

Chair

Secretary

**REPORT TO JUAN DE FUCA WATER DISTRIBUTION COMMISSION
MEETING OF TUESDAY, JULY 2, 2019**

SUBJECT **PROPOSED TRANSFER OF THE ADMIRALS ROAD WATER MAIN FROM THE
JUAN DE FUCA WATER DISTRIBUTION SERVICE TO THE REGIONAL
WATER SUPPLY SERVICE**

ISSUE

To seek direction from the Juan de Fuca Water Distribution Commission to transfer the existing water main located on Admirals Road in View Royal to the Regional Water Supply service and to advise the Regional Water Supply Commission of the intent.

BACKGROUND

The Capital Regional District owns and operates a water main (the main) located on Admirals Road between Craigflower Road and the municipal boundary of View Royal and the Township of Esquimalt (Reference Appendix A – Location Map). The main operates as both a supply and distribution main in that it provides bulk water supply to the border of Esquimalt (City of Victoria/Township of Esquimalt water distribution service) and the main also provides retail water distribution to customers within the Juan de Fuca Water Distribution service area.

The main was reconstructed in 2017 and extends from the Regional Water Supply No.2 transmission main on Craigflower Road to the border of Esquimalt and is aligned within the Admirals Road allowance owned by the Town of View Royal and the Ministry of Transportation and Infrastructure. The main is approximately 1,150 metres in length, is 300 millimeter (mm) in diameter, is made of ductile iron pipe, and includes five fire hydrants and fifteen services ranging in size from 16mm to 250mm diameter. In addition, the main provides water to Juan de Fuca mains located on Glentana Road, Aldersmith Road and Hallowell Road.

Currently, approximately 70% of the main's capacity is used for bulk water supply to the City of Victoria/Township of Esquimalt service and there is a Regional Water Supply bulk water billing meter near Maplebank Road to measure those flows. Note, the Regional Water Supply Service receives the revenue from the sale of this water. Esquimalt and Victoria are also served by the No.2 transmission main which extends along Craigflower Road.

The recommended transfer of the water main to the Regional Water Supply Service aligns with the Regional Water Supply servicing principles outlined in the 1998 report *Review of the Capital Regional District Water Supply*, by D.L. MacKay, PEng, which was endorsed by the Regional Water Supply Commission at the time, suggesting that municipalities should have access to a transmission main terminating at their boundary. Since the adoption of the report, supply transmission mains serving the Districts of Metchosin (No.7 and No.8 transmission mains) and Highlands (No.14 transmission main) have been transferred in accordance with this principle. The transfer would also create a potential opportunity to provide bulk wholesale water service to the Esquimalt and Songhees First Nations utilizing existing or new connections to the transmission main along Admirals Road.

Juan de Fuca Water Distribution Commission – July 2, 2019**Proposed transfer of the Admirals Road Water Main from the Juan de Fuca Water Distribution Service to the Regional Water Supply Service****2**

The transfer of the main was contemplated prior to the recent reconstruction, however the replacement was accelerated by the timing of the Ministry of Transportation and Infrastructure road upgrade project. As a result, there is now a financial implication that also needs to be addressed. The water main replacement construction cost when completed in 2017 was \$1,515,455.58 and the depreciated value at the end of 2019 will be \$1,475,043.44. If the asset is transferred in 2020 then the depreciated value would be paid by the Regional Water Supply Service to the Juan de Fuca Water Distribution Service at the time of transfer.

ALTERNATIVES**Alternative 1**

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.

Alternative 2

That the Juan de Fuca Water Distribution Commission:

Receive this report for information and direct staff not to take any further action.

IMPLICATIONS**Alternative 1**

Should the Juan de Fuca Water Distribution Commission and the Regional Water Supply Commission agree to the transfer at the end of 2019, as noted, the Juan de Fuca Water Distribution Service would receive the depreciated water main replacement construction cost in the amount of \$1,475,043.44, in 2020. This asset would be added to the Regional Water Supply asset base and overall physical plant value. For this addition, the annual return on the rate base would increase by approximately \$50,000 annually, which for the purposes of considering the wholesale water rate implications, it is estimated that this asset addition would impact the rate by approximately 0.2%. There are no material annual operation and maintenance costs associated with the main. With the exception of the bulk connection to the City of Victoria/Township of Esquimalt (and potentially First Nations connections), all other existing service connections will remain part of the Juan de Fuca Water Distribution System.

Alternative 2

If the water main is not transferred, the main will remain an anomaly in the systems in that it operates primarily as a supply main but forms part of the distribution system. Not transferring the main may limit future options to provide bulk wholesale water service to Esquimalt and Songhees First Nations.

Juan de Fuca Water Distribution Commission – July 2, 2019**Proposed transfer of the Admirals Road Water Main from the Juan de Fuca Water Distribution Service to the Regional Water Supply Service****3****CONCLUSION**

The Admirals Road water main operates as both a supply and distribution main in that it provides bulk water supply to the border of Esquimalt (City of Victoria/Township of Esquimalt water distribution service) and the main also provides retail water distribution to customers within the Juan de Fuca Water Distribution service area. Currently, approximately 70% of the main's capacity is used for bulk water supply to the City of Victoria/Township of Esquimalt service and there is a Regional Water Supply bulk water billing meter near Maplebank Road to measure those flows. The recommended transfer of the water main to the Regional Water Supply Service aligns with the Regional Water Supply servicing principles in terms of the provision of bulk water connections to municipal distribution systems. Should the Juan de Fuca Water Distribution Commission and the Regional Water Supply Commission agree to the transfer at the end of 2019, as noted, the Juan de Fuca Water Distribution Service would receive the depreciated water main replacement construction cost in the amount of \$1,475,043.44, in 2020.

RECOMMENDATION

That the Juan de Fuca Water Distribution Commission:

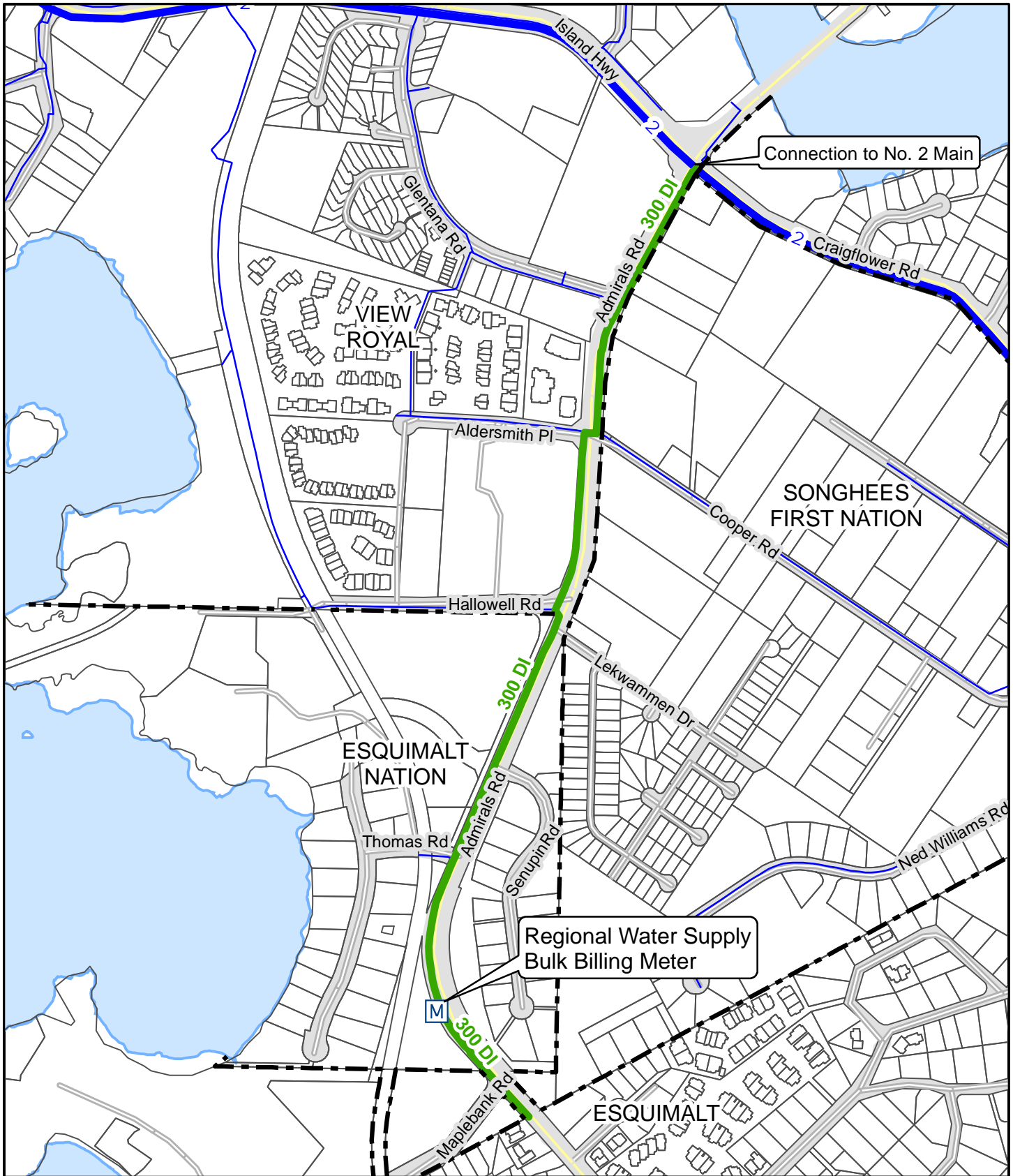
Approve the transfer of the Admirals Road Water Main to the Regional Water Supply Service in principle, and direct staff to prepare a report to the Regional Water Supply Commission recommending transfer of the Admirals Road Water Main from the Juan de Fuca Water Distribution Service to the Regional Water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

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

SM:TR:IJ:dd

Attachment: 1

Appendix A: Figure 1 – Water Main located on Admirals Road, View Royal



0 25 50 100 150 Metres

UTM Zone 10N NAD 1983



DISCLAIMER

This map is for general information only and may contain inaccuracies.

May 2019 | AdmiralsRd-CraigflowerRdMaplebankRd.mxd | helpdesk@crd.bc.ca

Admirals Rd Water Main

Island Hwy @ Craigflower Rd
to Esquimalt Border (past Maplebank Rd)



Making a difference...together

**REPORT TO JUAN DE FUCA WATER DISTRIBUTION COMMISSION
MEETING OF TUESDAY, JULY 2, 2019**

SUBJECT IMPLICATIONS RELATED TO PROVISION OF LIMITED FINANCIAL ASSISTANCE FOR PROPERTY DAMAGE RESULTING FROM A WATER MAIN FAILURE

ISSUE

To review the implications of establishing a policy related to the provision of limited financial assistance for property damage resulting from a water main failure.

BACKGROUND

After briefing the Juan de Fuca Water Distribution Commission (JDFWDC) on the Strathmore Road water main break at their March meeting, the Commission directed staff to:

Prepare a report outlining the implications, including social, legal and financial, of a Juan de Fuca Water policy related to provision of limited financial assistance for property damage resulting from water main failures.

Over the last five years (2014 to 2018), there have been, on average, seven water main failures per year. Most of the failures do not result in property damage due to location, severity, and the ability and timeliness to limit or contain water flow. From time to time, property damage does occur as a result of a water main failure. The CRD plans and completes asset maintenance and capital asset replacement annually in order to minimize the risk of failure, breakdown and malfunction.

As reported to the JDFWDC, British Columbia does not make a local government legally responsible to ensure that its water systems never experience a failure or malfunction. An express exclusion of liability for local governments in relation to water systems exists in Part 18, Division 2, Section 744 of the *BC Local Government Act (LGA)* (Appendix A), which states that a local government is not responsible for damages arising from the sudden and unexpected breakdown or malfunction of a water system. This includes civil nuisance claims, that is, for interference with enjoyment to land; as well as strict liability claims per the rule in *Rylands v Fletcher*, that is for damage caused by escape of an inherently dangerous substance used or stored in an unnatural way on land.

To be liable for losses caused by for a breakdown or malfunction, the local government must be proven to be negligent in its management of the system. Local governments may rely on a reasonable system of maintenance and inspection as a defence. The standard is not perfection, but merely what a reasonable local government would do in similar circumstances and with similar financial constraints.

To date, claims for compensation or financial assistance for property damage have not been considered, as the Capital Regional District (CRD) has not been negligent in its management of the system. It is not the practice of the CRD to pay claims that do not have a direct, provable

Juan de Fuca Water Distribution Commission – July 2, 2019
Implications Related to Provision of Limited Financial Assistance for Property Damage
Resulting from a Water Main Failure **2**

cause of action. When CRD receives a claim made in negligence and there is a possibility that CRD would be liable for a breach of the reasonable maintenance standard, CRD's Risk and Insurance department would fully explore the claim prior to offering compensation; compensation would only be offered if liability were established. Only the Chief Administrative Officer of the CRD has the power to retain legal counsel or settle legal disputes on behalf of the CRD, as this is the only office with this power expressly delegated to it under the *Officers', General Managers', and Staff Bylaw No. 1, 2006*.

A local government may not make an expenditure not authorized by its annual financial plan. It may not make a gratuitous payment to an individual absent a grant-in-aid. The existing grant-in-aid service only operates in the electoral areas and only for one-time projects which have larger community benefits. The CRD's internal grant-in-aid policy states the funds cannot be directed to an individual, but must go to a non-profit entity.

ALTERNATIVES

Alternative 1

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.

Alternative 2

That the Juan de Fuca Water Distribution Commission direct staff to further examine options to provide financial assistance for property damage resulting from a failure, breakdown or malfunction, pending receipt of a formal legal opinion on the lawfulness of creating a financial assistance program under the water distribution service.

IMPLICATIONS

REGULATORY IMPLICATIONS

The *LGA* protections exist to protect local governments and regional taxpayers from property damage beyond its direct control. It is recognized by the legislature that as the operators of sewer, water, and drainage systems, local governments will inevitably cause legal nuisances that are difficult if not impossible to predict. Water systems, by their very nature, are subject to land movement and deterioration over time. While every effort is made to replace deteriorating water lines in a timely manner, financial constraints exist which require prioritization of maintenance and repairs. The relevant sections of the *LGA* were created to avoid unnecessarily penalizing local governments when asset management plans are in place and being adhered to.

A local government does not have the ability to make a gratuitous payment, absent a grant-in-aid service that permits this. The existing grant-in-aid service does not allow for payments of direct compensation to an individual

Juan de Fuca Water Distribution Commission – July 2, 2019
Implications Related to Provision of Limited Financial Assistance for Property Damage
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FINANCIAL MANAGEMENT IMPLICATIONS

In regional district accounting, as set out in the *LGA*, funds from one service may only be used for the explicit purpose of that service and for no other purpose or service. In addition, section 401 of the *LGA* provides that the Commission cannot approve any expenditures that are not included in its financial plan for the current fiscal year. The *LGA* does allow for unplanned expenditures in the case of an emergency, however, those expenditure would still have to be within the scope of the operation or administration of the water distribution service. Compensation to remedy private property damage is not within the scope of the service description.

If the commission chose to approve a compensation payment that was not included in the financial plan, such a payment may be found to be unlawful upon review by the CRD's Auditors or the Municipal Auditor General, and as such could result in personal liability for Commission members who voted in support of a resolution authorizing that expenditure.

SOCIAL IMPLICATIONS

When a water main failure has occurred, CRD staff are typically the first to communicate steps that a property owner needs to take, including ensuring the safety of the building occupants, attempting to limit the extent of the property damage, contacting the insurance provider, then securing the property and relocating if necessary. Local governments may choose to provide initial social assistance to those impacted by damage, such as establishing warming centres and providing transportation, under municipal emergency programs until such time as alternate living arrangements can be made. The CRD will assist municipalities in these efforts where necessary, or lead the coordination in the Electoral Areas.

ECONOMIC IMPLICATIONS

It is the hope that property owners carry insurance to provide coverage for losses resulting from a local government water main breakdown or malfunction. When a loss occurs, it is the homeowners responsibility to immediately notify the insurance provider of the extent of the damage and any need to relocate. The property owner or its insurance provider has the right to make a claim against the local government to recover losses in a claim for negligence. However, as per s. 736 of the *LGA*, the claim must be received in writing within two months from the date of the incident, and as previously noted, the CRD will rely on the *LGA* protections in the absence of negligence. Unfortunately, some property owners may not carry insurance coverage due to financial constraints. In these circumstances, the property owner would be responsible for the full cost of recovery from the loss.

INTERGOVERNMENTAL IMPLICATIONS

The CRD has infrastructure including water mains throughout the municipalities and across the Region. If a water main failure occurs, the local municipality is directly or indirectly involved. In these events, after ensuring the public is safe, the CRD's primary goal, in terms of the utility operation, is to complete the repair and restore service as quickly as possible. The social aspects of the event are typically addressed through the local municipal emergency program supports

Juan de Fuca Water Distribution Commission – July 2, 2019
Implications Related to Provision of Limited Financial Assistance for Property Damage
Resulting from a Water Main Failure

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and/or the CRD emergency program supports, depending on the location. The CRD makes every effort to work in cooperation with the local municipality to coordinate and communicate situational information.

CONCLUSION

The *LGA* protections exist to put the onus of property protection on the property owner, rather than the local government. The CRD is unable to pay claims absent a finding, either internal or external, of liability due to negligent repair or maintenance. Where staff conclude CRD may be liable, it can authorize compensation payments for affected property owners through its risk and insurance claims process. Where CRD has not been negligent, no compensation is payable. A gratuitous compensation payment absent liability is outside the scope of the water distribution service authority and approval of such a payment by the Commission is likely to be found unlawful. The existing grant-in-aid programs do not permit such payments to be used as compensation, as grant-in-aid funds cannot be used for personal benefit but rather are designed to support community benefits that are accessible to all.

RECOMMENDATION

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.

Submitted by:	Ted Robbins, B.Sc., C.Tech., General Manager, Integrated Water Services
Concurrence:	Ross Cameron, B.Sc., C.R.M., A.B.C.P., Manager, Risk and Insurance
Concurrence:	Steve Carey, B.Sc., J.D., Manager, Legal Services
Concurrence:	Kristen Morley, J.D., General Manager, Corporate Services
Concurrence:	Robert Lapham, M.C.I.P., R.P.P., Chief Administrative Officer

TR:SC:RC:dd:td

Attachment:

Appendix A: s. 744, *Local Government Act*

Appendix A: s. 744, *Local Government Act*

Immunity in relation to certain nuisance actions

- 744.** A municipality, municipal council, regional district, regional district board, improvement district or greater board is not liable in any action based on nuisance or on the rule in the *Rylands v. Fletcher* case if the damages arise, directly or indirectly, out of the breakdown or malfunction of
- (a) a sewer system,
 - (b) a water or drainage facility or system, or
 - (c) a dike or a road.

RS2015-1-744 (B.C. Reg. 257/2015).



Making a difference...together

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 - INTEGRATED WATER SERVICES

Water Watch

Issued June 24, 2019

Water Supply System Summary:

1. Useable Volume in Storage:

Reservoir	June 30 5 Year Ave		June 30/18		June 23/19		% Existing Full Storage
	ML	MIG	ML	MIG	ML	MIG	
Sooke	82,159	18,075	82,102	18,062	82,386	18,125	88.8%
Goldstream	7,570	1,665	7,570	1,665	4,576	1,007	46.6%
Total	89,729	19,740	89,672	19,728	86,962	19,132	84.8%

2. Average Daily Demand:

For the month of June	188.4 MLD	41.45 MIGD
For week ending June 23, 2019	196.1 MLD	43.14 MIGD
Max. day June 2019, to date:	215.7 MLD	47.46 MIGD

3. Average 5 Year Daily Demand for June

Average (2014 - 2018)	182.1 MLD ¹	40.05 MIGD ²
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¹MLD = Million Litres Per Day

²MIGD = Million Imperial Gallons Per Day

4. Rainfall June:

Average (1914 - 2018):	35.4 mm
Actual Rainfall to Date	5.1 mm (14% of monthly average)

5. Rainfall: Sep 1- Jun 23

Average (1914 - 2018):	1,577.9 mm
2018 - 2019	1,441.9 mm (91% of average)

6. Water Conservation Action Required:

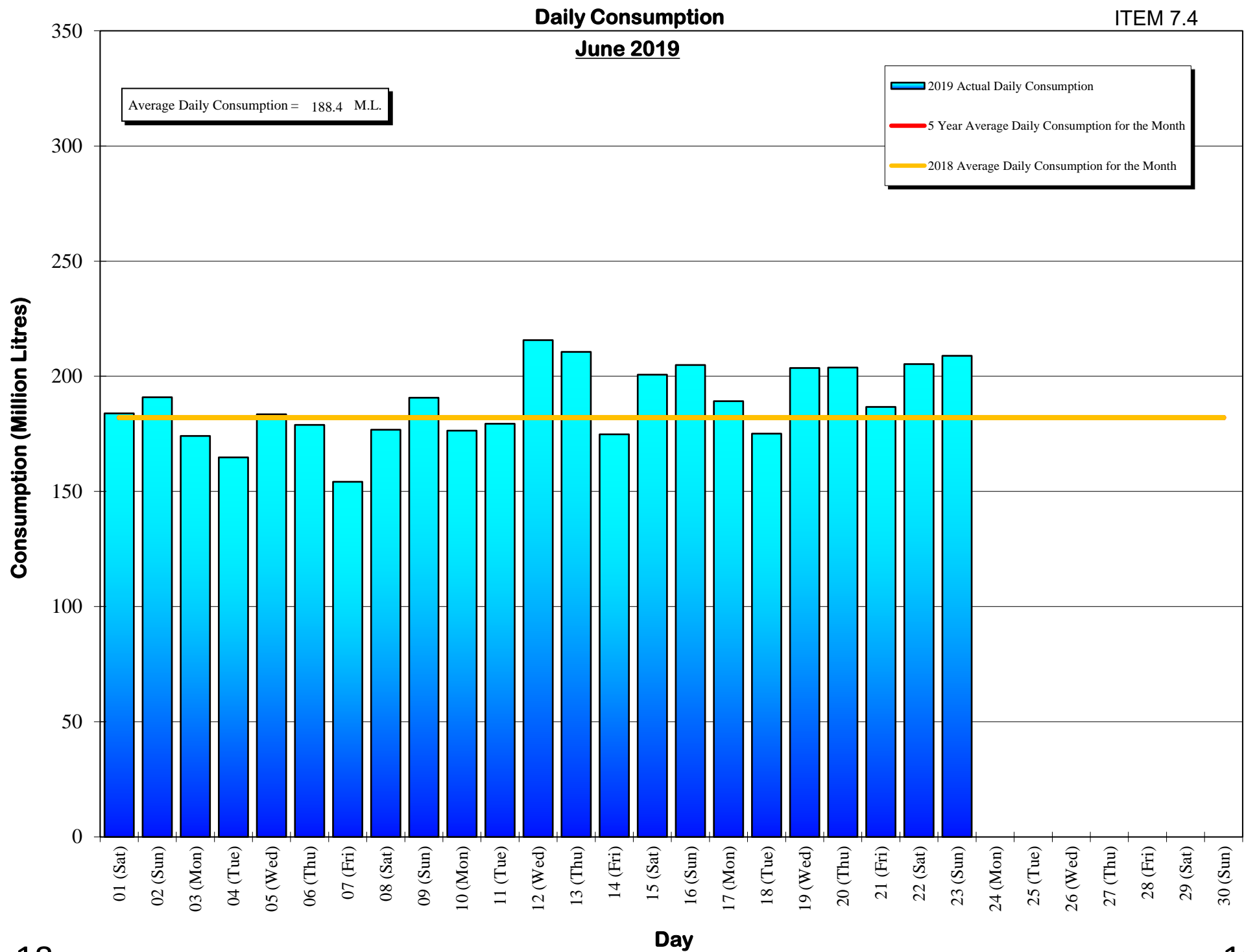
CRD's Stage 1 Water Conservation Bylaw is now in effect through to September 30, 2019.

Visit www.crd.bc.ca/water for scheduling 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: - June 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 (Sat)	183.9		24	11	Sunny	0.0	0.0	0.0
02 (Sun)	190.9		24	11	Sunny / P. Cloudy	0.0	0.0	0.0
03 (Mon)	174.1		19	8	Sunny	0.0	0.0	0.0
04 (Tue)	164.8		21	7	Sunny / P. Cloudy	0.0	0.0	0.0
05 (Wed)	183.5		16	9	Sunny / P. Cloudy	0.0	0.0	0.0
06 (Thu)	178.9		16	7	Sunny / P. Cloudy / Showers	0.5	0.0	0.5
07 (Fri)	154.2	<=Min	16	7	Sunny / P. Cloudy	3.8	0.0	3.8
08 (Sat)	176.8		20	8	Sunny / P. Cloudy	0.0	0.0	0.0
09 (Sun)	190.7		22	8	Sunny / P. Cloudy	0.0	0.0	0.0
10 (Mon)	176.4		23	11	Sunny / P. Cloudy	0.0	0.0	0.0
11 (Tue)	179.4		29	12	Sunny	0.0	0.0	0.0
12 (Wed)	215.7	<=Max	32	14	Sunny	0.0	0.0	0.0
13 (Thu)	210.6		23	12	Sunny / P. Overcast	0.0	0.0	0.0
14 (Fri)	174.8		21	11	Sunny	0.0	0.0	0.0
15 (Sat)	200.7		23	10	Sunny	0.0	0.0	0.0
16 (Sun)	204.9		25	11	Sunny	0.0	0.0	0.0
17 (Mon)	189.2		26	12	Sunny / P. Cloudy	0.0	0.0	0.0
18 (Tue)	175.1		19	11	Sunny / P. Cloudy	0.0	0.0	0.0
19 (Wed)	203.6		16	10	Sunny / P. Cloudy / Showers	0.5	0.0	0.5
20 (Thu)	203.8		20	9	Sunny / P. Cloudy / Showers	0.3	0.0	0.3
21 (Fri)	186.7		22	10	Sunny / P. Cloudy	0.0	0.0	0.0
22 (Sat)	205.3		20	11	Sunny / P. Cloudy	0.0	0.0	0.0
23 (Sun)	208.9		17	11	Sunny / P. Cloudy	0.0	0.0	0.0
24 (Mon)								
25 (Tue)								
26 (Wed)								
27 (Thu)								
28 (Fri)								
29 (Sat)								
30 (Sun)								
TOTAL	4332.9 ML	953.26 MIG				5.1	0	5.1
MAX	215.7	47.46	32	14		3.8	0	3.8
AVE	188.4	41.45	21.5	10.0		0.2	0	0.2
MIN	154.2	33.92	16	7		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 June (1914-2018)	35.4 mm
Actual Rainfall: June	5.1 mm
% of Average	14%
Average Rainfall (1914-2018): Sept 01 - Jun 23	1,577.9 mm
Actual Rainfall (2018-2019): Sept 01 - Jun 23	1,441.9 mm
% of Average	91%

Number days with precip. 0.2 or more
4

Water spilled at Sooke Reservoir to date (since Sept. 1) =

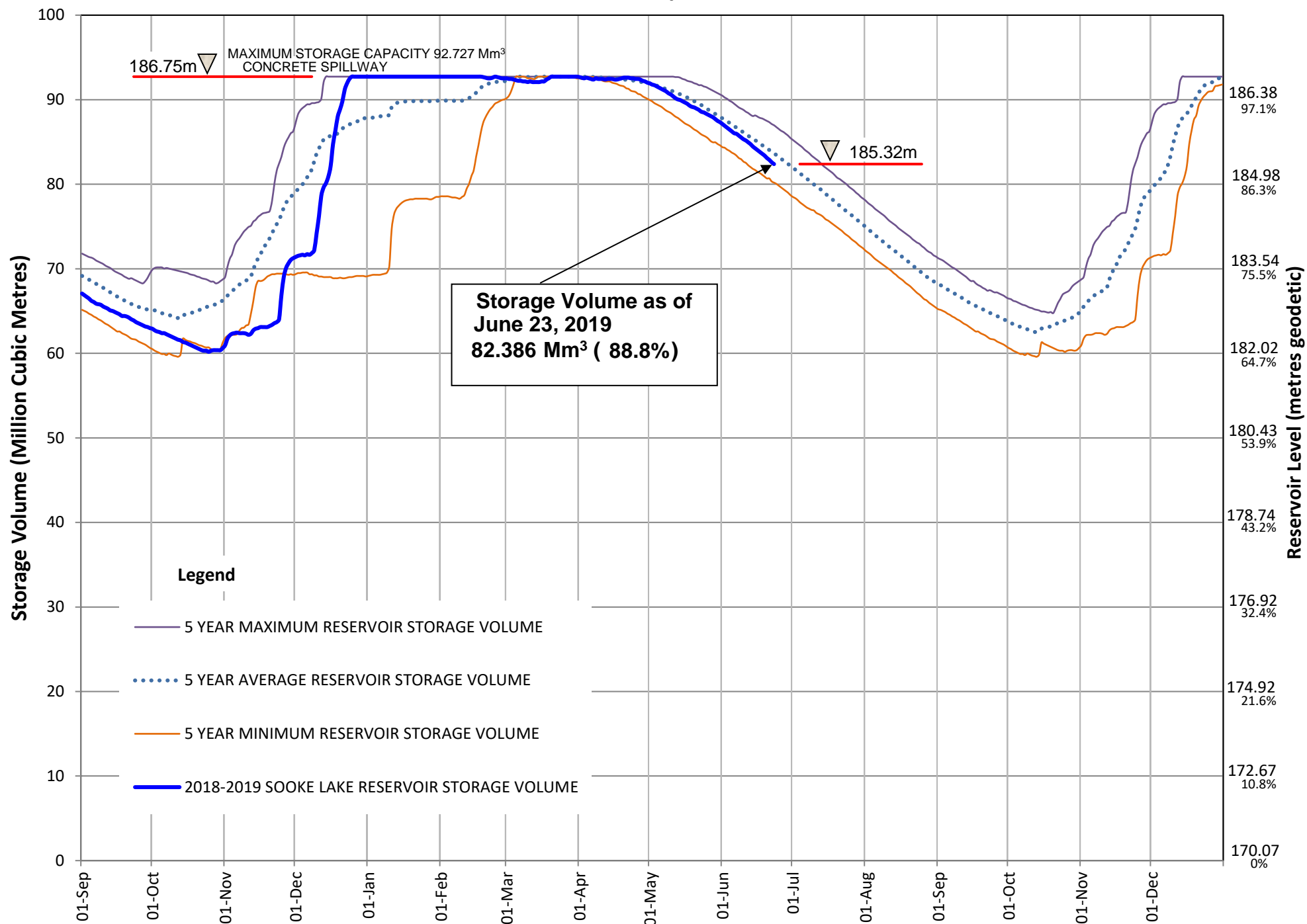
5.38 Billion Imperial Gallons

=

24.50 Billion Litres

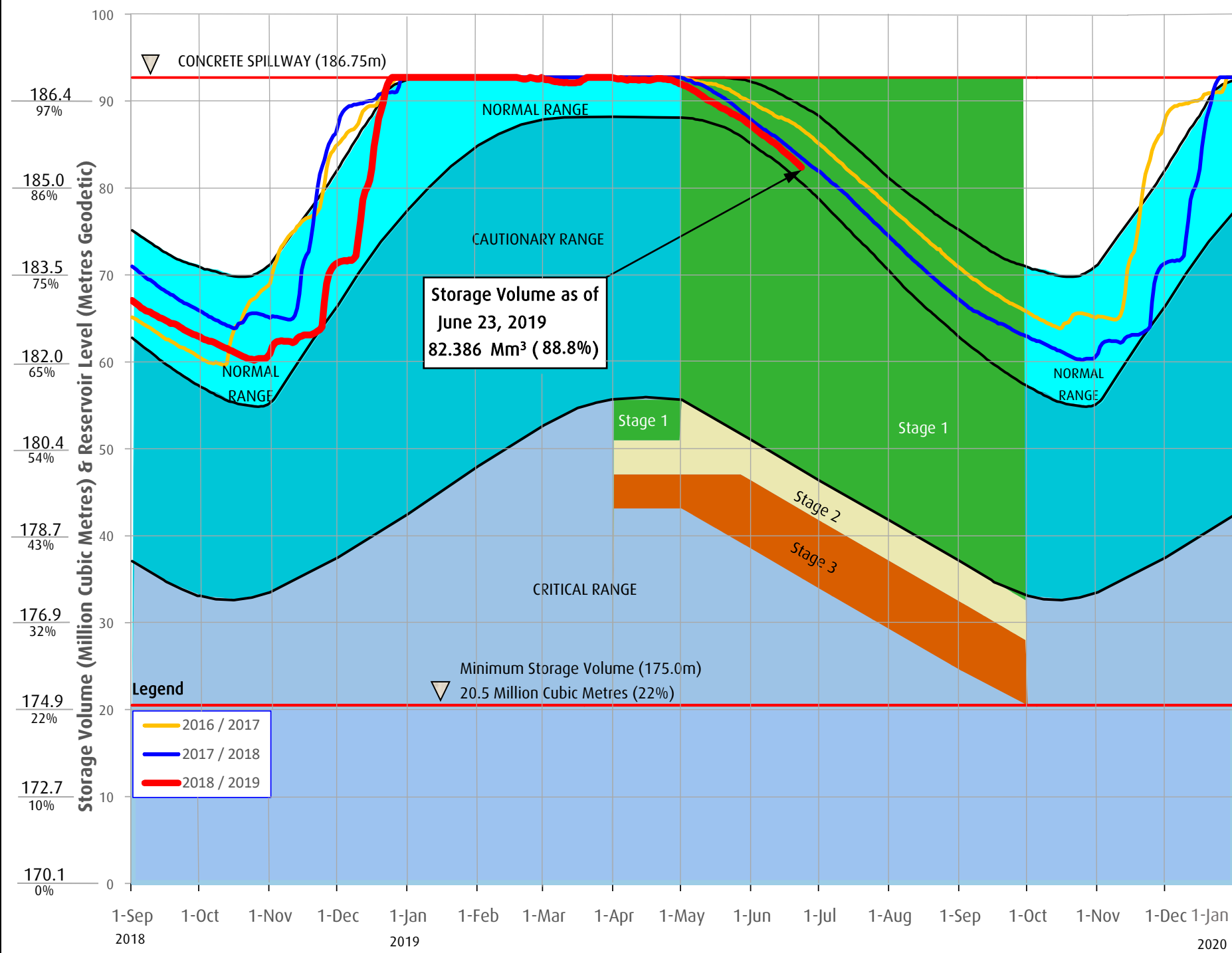
2018 / 2019

ITEM 7.4



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 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



District of Sooke
June 5, 2019

**NOTICE OF MOTION TO THE CAPITAL REGIONAL DISTRICT WATER COMMISSION &
JUAN DE FUCA WATER DISTRIBUTION SERVICE**

WHEREAS the BC Ministry of Transportation and Infrastructure have announced plans to widen and straighten a 1.5-kilometre section of Highway 14 between Glinz Lake Road and Connie Road; AND

WHEREAS property owners in North Sooke are facing a loss of water wells due to land acquisition required for Highway 14 improvements; AND

WHEREAS Mayor and Council have received a delegation from the North Sooke Community Association, expressing concerns regarding diminished water supply and sustainability of current water infrastructure in North Sooke;

THEREFORE, the District of Sooke calls upon the Capital Regional District Water Commission and the Juan de Fuca Water Distribution Service to support extension of water infrastructure to North Sooke in conjunction with Highway 14 construction activity.