



Making a difference...together

JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Notice of Meeting on **Tuesday, July 8, 2014 @ 12:00 pm**
Goldstream Conference Room, 2nd Floor, 479 Island Highway, Victoria, BC

B. Gramigna
M. Hicks
K. Williams

J. Rogers
G. Logan
L. Szpak

H. Haldane
W. Sifert

AGENDA

1. Approval of Agenda
2. Adoption of Minutes of April 1, 2014
3. Chair's Remarks
4. Presentations/Delegations
 - No one has requested to speak
5. Correspondence
 - Email from B. Hircock, Metchosin, BC regarding Bulk Water Delivery
6. Residential Water Meter Replacement Program (Staff Report #JWDC 2014-05)
7. Community Allotment Garden Water Rate for Welland Legacy Park Orchard (Staff Report #JWDC 2014-06)
8. Update on Bulk Water Dispensing Stations - Verbal
9. Proposed Budget Meeting Date: Tuesday, October 7, 2014
10. Water Watch
11. New Business
12. Adjournment
13. Next Meeting: Tuesday, September 2, 2014 at 12:00 pm

To ensure a quorum, advise Margaret at 250.474.9606 if you or your alternate cannot attend.



Making a difference...together

MINUTES OF A MEETING OF THE JUAN DE FUCA WATER DISTRIBUTION COMMISSION
Held Tuesday, April 1, 2014, Goldstream Conference Room, 479 Island Highway

PRESENT: **Commissioners:** B. Gramigna, H. Haldane, M. Hicks, G. Logan, J. Rogers, L. Szpak,
K. Williams

Staff: T. Robbins, P. Sparanese, T. Tanton, M. Montague (Recorder)

ABSENT: W. Sifert

The meeting was called to order at 12:05 pm.

1. APPROVAL OF AGENDA

The following items were added to the agenda:

- Under Correspondence, additional information regarding the Welland Legacy Park Orchard;
and
- Under New Business, 2004 Aquifer Study

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Williams,
that the Juan de Fuca Water Distribution Commission approve the agenda as amended.

CARRIED

2. ADOPTION OF MINUTES OF FEBRUARY 4, 2014

MOVED by Commissioner Hicks and **SECONDED** by Commissioner Szpak,
that the Juan de Fuca Water Distribution Commission adopt the minutes of February 4, 2014 as
distributed.

CARRIED

3. CHAIR'S REMARKS

The Chair had no remarks.

4. PRESENTATIONS/DELEGATIONS

No one requested to speak.

5. CORRESPONDENCE

Town of View Royal

T. Robbins spoke to the letter from View Royal. He noted that properties need to have farm status in order to qualify for the agricultural water rate. Additional information on Welland Legacy Park Orchard was provided by Commissioner Rogers. He noted that the park is a community resource with a number of young fruit trees which need irrigation.

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Hicks,
That the Juan de Fuca Water Distribution Commission approve the request from the Town of
View Royal that Welland Legacy Park Orchard receive the agricultural water rate.

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Szpak,
that the Juan de Fuca Water Distribution Commission:

1. Defer the motion;
2. Direct staff to report back to the Commission on what the Bylaw implications would be to give Welland Legacy Park Orchard the agricultural water rate; and, if approved,
3. Provide the Commission with a follow up report on the status of the park.

CARRIED

City Pumping Ltd.

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Williams, that the Juan de Fuca Water Distribution Commission receive the correspondence from City Pumping Ltd.

6. SUPPLEMENTARY REPORT - BULK WATER DISPENSING STATIONS

T. Robbins spoke to the report and noted that this item had been deferred from the January 2014 meeting.

MOVED by Commissioner Hicks and **SECONDED** by Commissioner Haldane, that the Juan de Fuca Water Distribution Commission direct staff to complete the third and final bulk water dispensing station in East Sooke, approve the \$50,000 funding requested in the 2014 capital plan, and to amend CRD Bylaw No. 3889 to allow dedicated potable water hydrants or stand-pipes to be built by member municipalities or Electoral areas and administered by the Juan de Fuca Water Distribution Commission staff for the exclusive use of fire departments and certified VIHA approved potable water haulers.

MOVED by Commissioner Logan and **SECONDED** by Commissioner Haldane, that the motion be amended by adding “which meets or exceeds CRD requirements” at the end of the sentence.

CARRIED

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Szpak, that the Juan de Fuca Water Distribution Commission direct staff to further investigate options and bring a report back to the Commission.

DEFEATED

The main motion was put

CARRIED
Commissioner Rogers and Szpak OPPOSED

7. EXTENSION OF CONTRACT NO. 2013-749 SUPPLY OF RENTAL EQUIPMENT – SLINGER TRUCK WITH OPERATOR

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Haldane, that the Juan de Fuca Water Distribution Commission approve the extension of the award of the contract for the supply of Slinger Truck and Operator services to Sooke Slinger Ltd. for one year, effective April 1, 2014, based on the hourly/daily rates as submitted in the 2013 tender, not including taxes.

CARRIED

8. EXTENSION OF CONTRACT NO. 2013-754 SUPPLY OF RENTAL EQUIPMENT – HYDROVAC TRUCK AND OPERATOR SERVICES

MOVED by Commissioner Haldane and **SECONDED** by Commissioner Logan, that the Juan de Fuca Water Distribution Commission approve the extension of the award of the contract for the supply of HydroVac Truck and Operator services to MacRae’s Ltd. for one year, effective April 1, 2014, based on the hourly/daily rates as submitted in the 2013 tender, not including taxes.

CARRIED

9. WATER DISTRIBUTION MAIN REPLACEMENT PROGRAM – 2013 PROGRAM SUMMARY AND 2014 PROGRAM UPDATE

MOVED by Commissioner Szpak and **SECONDED** by Commissioner Rogers, that the Juan de Fuca Water Distribution Commission receive the staff report for information.

CARRIED

10. FIVE-YEAR FIRE FLOW UPGRADE PROGRAM – 2013 (YEAR 2) PROGRAM SUMMARY AND 2014 (YEAR 3) PROGRAM UPDATE

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Haldane, that the Juan de Fuca Water Distribution Commission receive the staff report for information.

CARRIED

11. WATER MAIN REPLACEMENT DESIGN WORK FOR 2015

MOVED by Commissioner Szpak and **SECONDED** by Commissioner Rogers, that the Juan de Fuca Water Distribution Commission approve the allocation of up to \$120,000 from the 2014 water main replacement program budgets to a 2015 water main replacement project design budget to allow advanced completion of project design work.

CARRIED

12. WATER WATCH

MOVED by Commissioner Rogers and **SECONDED** by Commissioner Szpak, that the Juan de Fuca Water Distribution Commission receive the staff report for information.

CARRIED

13. NEW BUSINESS

2004 Aquifer Study - The Chair noted that this item should be discussed at the Regional Water Supply Commission.

14. ADJOURNMENT

MOVED by Commissioner Haldane and **SECONDED** by Commissioner Rogers, that the meeting of the Juan de Fuca Water Distribution Commission be adjourned at 1:15 pm.

CARRIED

Chair

Secretary

Margaret Montague

From: Patty Bell <ravenswoodskyhigh@gmail.com>
Sent: Thursday, May 29, 2014 1:17 PM
To: Ted Robbins
Subject: Re: water delivery

Goodday Ted R., I,am interested if there has been any movement on the water issue since our last communication, cost's continue to pile up on my end , so I would appreciate any feedback on this issue. Also can you confirm for me that my original email was circulated to all Distribution commision members. Thanks .
Ben

On Mon, Apr 14, 2014 at 4:44 PM, Ted Robbins <trobbsins@crd.bc.ca> wrote:

Mr. Hircock,

Thank-you for your email below. At the April meeting of the Juan de Fuca Water Distribution Commission, this issue was discussed further and as a result, staff will be bringing a supplementary report back to Commission at an upcoming meeting, outlining what would be required to construct additional bulk water filling stations in areas more distant from the three stations currently in use. What is now being considered is whether there is a lower cost solution for filling stations that can meet the public health and safety objectives that formed the basis of the Commission's decision to discontinue the use of the old standpipes.

Thank-you,

Ted Robbins

General Manager, Integrated Water Services

Capital Regional District

479 Island Highway

Victoria, BC V9B 1H7

T: [250.360.3061](tel:250.360.3061) M: [250.217.9084](tel:250.217.9084)

trobbsins@crd.bc.ca

From: Patty Bell [mailto:ravenswoodskyhigh@gmail.com]
Sent: Monday, April 14, 2014 2:59 PM
To: Ted Robbins
Subject: water delivery

Good afternoon Ted Robbins and the CRD Regional Water Supply Commision. I recently purchased potable water and was shocked at the price increase since our last fill. With a little research I found out the increase was as a result of the Water Board closing a stand pipe on Rocky Point Road causing our supply to have to come from further away at greater cost. For the benifit of those in Metchosin it would be nice to see this standpipe resume operation.

We have seen prices increase as a result of fuel cost's recently, and now to add a further 40 dollars to a load of water is becoming a bit of a hardship. Also I know I am not the only person in Metchosin affected, as I understand there are several areas that have low to no domestic supply and rely on the independent supplier's to ship from CRD standpipes.

Therefore I ask that the CRD rethink there decision to close the Rocky Point fill station.

Thank you for listening. I await your reply.

Ben Hircock, 1365 Neild Rd. Metchosin, BC

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**REPORT TO JUAN DE FUCA WATER DISTRIBUTION COMMISSION
MEETING OF TUESDAY JULY 8, 2014**

SUBJECT RESIDENTIAL WATER METER REPLACEMENT PROGRAM

ISSUE

Development of a sustainable residential water meter (meters) replacement program for the Juan de Fuca water distribution system.

BACKGROUND

There are approximately 20,500 meters that have been installed over the years in the Juan de Fuca water distribution system, with an average age of approximately 13 years. A large number of the meters (approximately 10,500 meters) were installed in 1994 and are now 20 years old. Since 1994, new meters have been added to the system at a rate of 500 meters per year.

From 2012 - 2014, the Juan de Fuca Water Distribution Commission (JWDC) budget has included an allowance for a pilot program of replacement, testing and study of residential meters. Over this time period, roughly 1,400 existing meters have been replaced. As a part of the program, a number of the retired water meters were bench tested. The conclusions drawn from this program include:

- Although some of the meters did not meet industry standards or manufacturers specifications for accuracy, generally the retired meters performed well.
- As the accuracy of meters degrades over time, readings tend to get lower (i.e. resulting in a revenue shortfall in favour of the customer).
- It is more economical to replace an old meter rather than attempting repairs, since a new meter costs only \$110 - \$120.

Staff have reviewed the data gathered from 2012 - 2014 with a view to creating a long-term sustainable replacement plan for residential meters.

The Capital Regional District (CRD), Integrated Water Services considers a typical meter assembly to include the actual water meter as well as the remote reading device, backflow prevention device, a minor amount of service piping, and the meter box. Including labour, material and equipment costs, each installation costs approximately \$500. The actual effort for each installation varies due to site specific conditions such as pavement restoration, retaining walls, and landscaping.

In reviewing industry best practices, such as American Water Works Association (AWWA), it is recommended that meters (19mm – 25mm meters) be replaced when they are 10 years old to ensure accurate measurement of the volume of water being used. The primary factors that lead to deterioration of meters are wear of the meter's mechanical components, and the water quantity that the meter passes over its service life. Other factors such as physical damage, corrosion, and freezing may also come into play with the service life of a typical meter. With our mild winters, geographic conditions, and clear water, there is reason to believe that Juan de Fuca meters may last longer than 10 years.

Best practices also suggest that a meter should be replaced once it has passed a quantity of water in the range of 1.2 to 1.4 million imperial gallons (5,500 to 6,400 cubic metres) due to wear on the mechanical components. The typical meter in the Juan de Fuca system would pass somewhere between 50,000 and 55,000 imperial gallons (230 to 250 cubic metres) per year, resulting in an estimated service life of about 25 years.

Based on industry best practice, the CRD pilot program and direct experience, staff recommend that the meters be replaced every 25 years. This is important in order to maximize the service life, limit service disruption, lower capital costs, ensure accuracy for the service area customers, and minimize water revenue loss.

Of the 20,500 meters, approximately 2,000 meters have been replaced. Based on current workload, the CRD is able to replace approximately 1,000 meters per year. This means, that all of the meters installed back in 1994 will be replaced by 2023. After that date, the plan would be to replace approximately 1,000 meters per year, or 4% of the system meters, on an ongoing basis. This would bring the meter replacement program in alignment with a sustainable 25-year service life replacement program according to industry best practices.

This work would be managed by Infrastructure Engineering, constructed by Infrastructure Operations, and Customer and Technical Services would inform, receive and record all meter installations.

Any increase in the rate of annual installations will require additional CRD labour for each of the divisions or the work to be contracted out.

ALTERNATIVES

1. That the Juan de Fuca Water Distribution Commission approve the replacement of residential water meters at a rate of approximately 1,000 water meters per year up until 2023, and then maintain a rate of replacement of approximately 1,000 (or 4%) thereafter. It is estimated that \$500,000 per year (2014 dollars) would be required to fund the program beginning in 2015.
2. That the Juan de Fuca Water Distribution Commission approve the replacement of approximately 8,500 residential water meters all at once (as in 1994) in 2015, then maintain a replacement rate of 1,000 water meters per year thereafter. It is estimated that a budget of \$4,250,000 (2014 dollars) would be required to fund the 2015 program, then \$500,000 per year thereafter.
3. That the Juan de Fuca Water Distribution Commission approve the replacement of residential water meters at a rate of approximately 500 water meters per year at a funding level of \$250,000 per year (2014 dollars) beginning in 2015.

FINANCIAL IMPLICATIONS

Alternative 1 – It is estimated that \$500,000 per year (2014 dollars) would be required to fund the program. There is no impact to existing CRD staff levels.

Alternative 2 – It is estimated that \$4,250,000 (2014 dollars) would be required to fund the program and \$500,000 per year thereafter. An increase in CRD staff levels would be required to implement this accelerated program or the work would have to be contracted out.

Alternative 3 – It is estimated that a funding level of \$250,000 per year would be required to fund the program. Under this program, the CRD would never replace all its meters in a sustainable fashion and would result in exceeding the service life, additional capital costs, and water revenue loss.

CONCLUSION

There are a variety of ages of residential water meters installed in the Juan de Fuca water distribution system and, in order to ensure that water is accurately measured and billed to customers and to ensure limited service disruptions, the water meters should be replaced at a sustainable rate. The CRD's experience with the accuracy of meters retired from service in the Juan de Fuca water system are accurate after many years of services and should be considered reliable for 25 years.

At a replacement rate of 1,000 meters per year, the older meters installed in 1994 should be eliminated from the system by 2023 and, as development occurs adding meters to the system, a replacement rate of 1,000 meter per year should be sufficient. In addition to the meters, backflow prevention devices should be included to be installed or replaced at the same time.

RECOMMENDATION

That the Juan de Fuca Water Distribution Commission approve the replacement of residential water meters at a rate of approximately 1,000 water meters per year up until 2023, and then maintain a rate of replacement of approximately 1,000 (or 4%) thereafter. It is estimated that \$500,000 per year (2014 dollars) would be required to fund the program beginning in 2015.

Scott Mason, P.Eng
Manager, Regional Water
Infrastructure Engineering

Tim Tanton, MPA, P.Eng
Senior Manager, Infrastructure Engineering
Concurrence

Peter Sparanese, P.Eng
Senior Manager, Infrastructure Operations
Concurrence

Ted Robbins, BSc, CTech
General Manager, Integrated Water Services
Concurrence

SM:mm



**REPORT TO JUAN DE FUCA WATER DISTRIBUTION COMMISSION
MEETING OF TUESDAY, JULY 8, 2014**

**SUBJECT TOWN OF VIEW ROYAL WELLAND LEGACY PARK – REQUEST FOR
AGRICULTURAL WATER RATE**

ISSUE

The Town of View Royal has requested that the Welland Legacy Park, located at 1215 Stancil Lane, be charged the agricultural water rate.

BACKGROUND

The Town of View Royal has requested that the Welland Legacy Park be charged the agricultural water rate.

Welland Legacy Park was recently bequeathed to the Town of View Royal and is currently operated as a community resource by LifeCycles Project Society (LifeCycles), a not-for-profit, charitable organization. In addition to maintaining over 230 fruit trees and many other food bearing plants at the park, LifeCycles is establishing a community nursery at the park to propagate food plants with local youth, develop a community apiary to teach local people about bee keeping, and establish a composting area to ensure the orchard's fertility is maintained.

Capital Regional District (CRD) Bylaw No. 3889 and Bylaw No. 3921 set out the definition for a Community Allotment Garden and a water charge rate for all water supplied to a site classified as such.

As described in the bylaw, a "**Community Allotment Garden**" means Property used exclusively as a not-for-profit garden in which allotments or shared plots are available to members of the public for a fee, and which supports demonstration gardening, instructional programming, and the production of produce for the personal use of the members or for community aid.

The 2014 Community Allotment Garden Rate is \$0.2105 per cubic metre, which is equivalent to the Regional Water Supply Service agricultural water rate.

ALTERNATIVES

1. That the Juan de Fuca Water Distribution Commission recommends that the Town of View Royal's Welland Legacy Park at 1215 Stancil Lane be charged the Community Allotment Garden water rate, as amended annually by bylaw, as long as the site is being used for the purposes set out in the Community Allotment Garden definition set out in CRD Bylaw No. 3889, and direct staff to advise the Town of View Royal of this rate change effective immediately.
2. That the Juan de Fuca Water Distribution Commission recommends that the Town of View Royal's Welland Legacy Park at 1215 Stancil Lane be charged the standard retail water rate.

FINANCIAL IMPLICATIONS

Historically, during the past two years, consumption for Welland Legacy Park Orchard has been zero per billing period except for summer months which was 234 cubic meters in August 2013. Therefore, the financial impact on the overall Juan de Fuca Water Distribution system revenue would be minimal.

CONCLUSION

The purpose of Welland Legacy Park and its operation by LifeCycles Project Society under agreement with the Town of View Royal, align with the CRD bylaw definition of a Community Allotment Garden, making the site eligible for the Community Allotment Garden water rate.

RECOMMENDATION

That the Juan de Fuca Water Distribution Commission:

1. Recommends that the Town of View Royal's Welland Legacy Park at 1215 Stancil Lane be charged the Community Allotment Garden water rate, as amended annually by bylaw, as long as the site is being used for the purposes set out in the Community Allotment Garden definition set out in CRD Bylaw No. 3889; and
2. Direct staff to advise the Town of View Royal of this rate change effective immediately.

Donna Costin, CPA, CMA
Manager, Revenue Services

Ted Robbins, BSc, CTech
General Manager, Integrated Water Services
Concurrence

DC/TR:mm

CAPITAL REGIONAL DISTRICT - INTEGRATED WATER SERVICES**Water Watch**

Issued: June 30, 2014

Water Supply System Summary:**1. Useable Volume in Storage:**

Reservoir	June 30 5 Year Ave		June 30/13		June 29/14		% Existing Full Storage
	ML	MIG	ML	MIG	ML	MIG	
Sooke	83,611	18,394	85,607	18,834	85,175	18,738	91.9%
Goldstream	9,093	2,000	8,748	1,925	8,604	1,893	87.6%
Total	92,704	20,395	94,355	20,758	93,778	20,631	91.4%

2. Average Daily Demand:

For the month of June	180.3 ML	39.66 MIG
For week ending June 29, 2014	178.1 ML	39.18 MIG
Max. day June 2014, to date:	214.7 ML	47.24 MIG

3. Average 5 Year Daily Demand for June

Average (2009 - 2013)	174.1 MLD ¹	38.29 MIGD ²
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¹MLD = Million Litres Per Day ²MIGD = Million Imperial Gallons Per Day**4. Rainfall June:**

Average (1914 - 2013):	36.1 mm
Actual Rainfall to Date	8.0 (22% of monthly average)

5. Rainfall: Sep 1 - Jun 29

Average (1914-2013):	1586.5 mm
2013-2014	1238.0 (78% of average)

6. Water Conservation Action Required:

Stage 1 water conservation bylaw is now in effect.

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

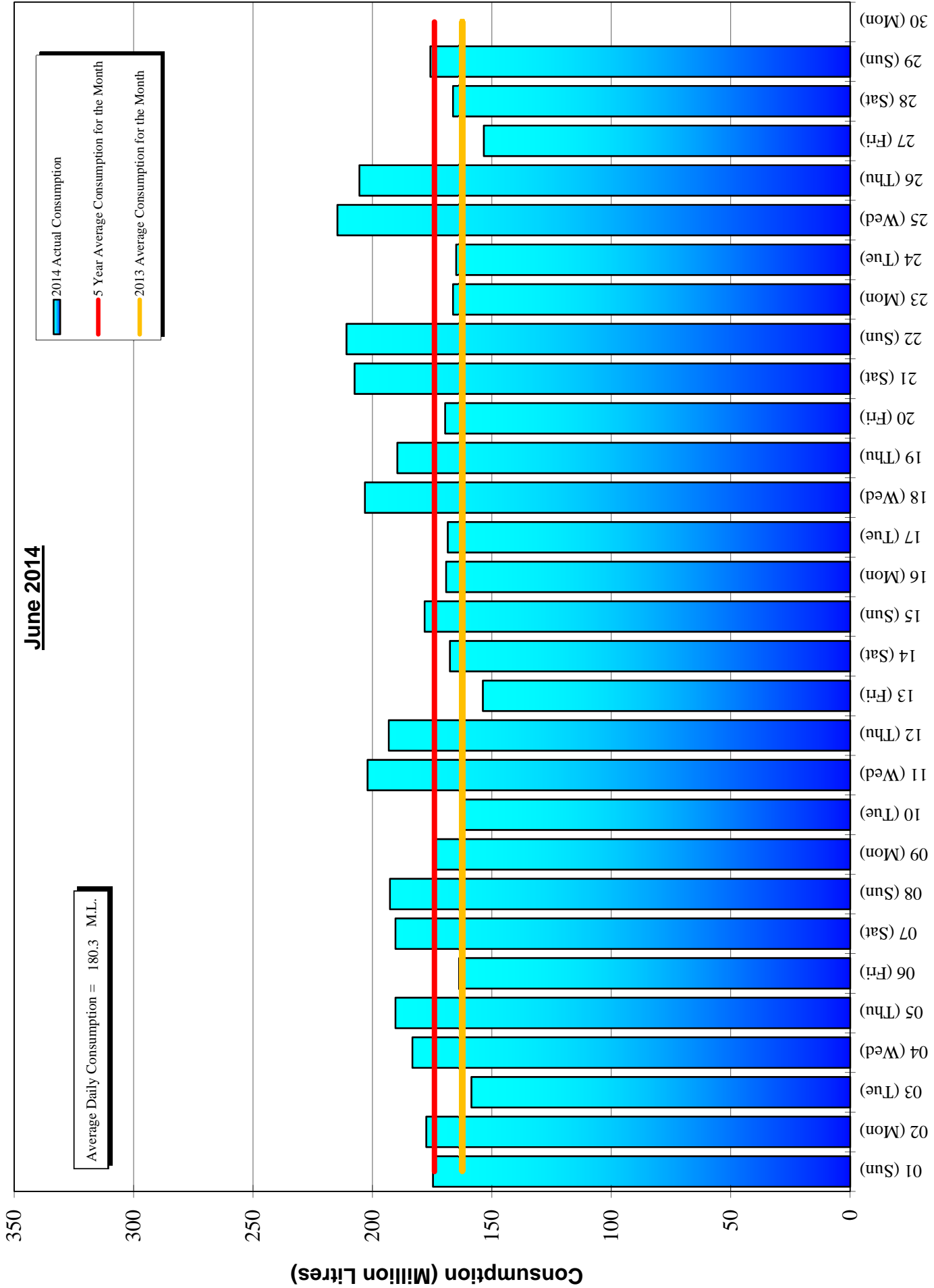
Deborah Walker
Demand Management Coordinator

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

June 2014

Average Daily Consumption = 180.3 M.L.

- 2014 Actual Consumption
- 5 Year Average Consumption for the Month
- 2013 Average Consumption for the Month



Day

Daily Consumptions: - June 2014

Date	Total Consumption		Air Temperature @ Japan Gulch		Weather Conditions	Precipitation @ Sooke Res.: 12:00am to 12:00am		
	(ML)	(MIG)	High (°C)	Low (°C)		Rainfall (mm)	Snowfall (mm)	Total Precip.
01 (Sun)	174.7	38.43	23	10	Sunny	0.0	0.0	0.0
02 (Mon)	177.5	39.05	25	10	Sunny	0.0	0.0	0.0
03 (Tue)	158.6	34.88	19	10	Cloudy / P Sunny	0.0	0.0	0.0
04 (Wed)	183.3	40.33	20	10	Sunny / P. Cloudy	0.0	0.0	0.0
05 (Thu)	190.4	41.88	21	8	Sunny	0.0	0.0	0.0
06 (Fri)	163.6	35.99	24	9	Sunny	0.0	0.0	0.0
07 (Sat)	190.4	41.89	22	11	Sunny / P. Cloudy	0.0	0.0	0.0
08 (Sun)	192.7	42.40	24	11	Sunny / P. Cloudy	0.0	0.0	0.0
09 (Mon)	174.5	38.39	20	10	Sunny / P. Cloudy	0.0	0.0	0.0
10 (Tue)	162.1	35.66	19	10	Sunny / P. Cloudy / Shower	0.3	0.0	0.3
11 (Wed)	202.1	44.47	21	9	Sunny / P. Cloudy	0.0	0.0	0.0
12 (Thu)	193.2	42.50	21	12	Cloudy / P Sunny	0.0	0.0	0.0
13 (Fri)	153.8	33.83	17	12	Cloudy / P Sunny	0.0	0.0	0.0
14 (Sat)	167.6	36.87	18	10	Cloudy / P Sunny	0.0	0.0	0.0
15 (Sun)	178.2	39.20	17	9	Cloudy / P Sunny	0.0	0.0	0.0
16 (Mon)	169.2	37.23	18	11	Cloudy / P Sunny	0.0	0.0	0.0
17 (Tue)	168.5	37.08	22	11	Sunny / P. Cloudy	0.0	0.0	0.0
18 (Wed)	203.2	44.70	20	10	Sunny / P. Cloudy	0.0	0.0	0.0
19 (Thu)	189.6	41.71	19	11	Sunny / P. Cloudy / Shower	0.5	0.0	0.5
20 (Fri)	169.6	37.32	19	10	Sunny / P. Cloudy	0.0	0.0	0.0
21 (Sat)	207.5	45.65	21	8	Sunny / P. Cloudy	0.0	0.0	0.0
22 (Sun)	210.9	46.39	24	9	Sunny / P. Cloudy	0.0	0.0	0.0
23 (Mon)	166.3	36.58	22	13	Cloudy / Showers	0.8	0.0	0.8
24 (Tue)	165.0	36.29	22	13	Sunny / P. Cloudy	0.0	0.0	0.0
25 (Wed)	214.7 <=Max	47.24	24	12	Sunny / P. Cloudy	0.0	0.0	0.0
26 (Thu)	205.5	45.20	24	13	Sunny	0.0	0.0	0.0
27 (Fri)	153.4 <=Min	33.75	19	12	Sunny / P. Cloudy / Shower	1.3	0.0	1.3
28 (Sat)	166.3	36.58	17	12	Cloudy / Showers	5.1	0.0	5.1
29 (Sun)	175.8	38.68	20	12	Sunny / P. Cloudy	0.0	0.0	0.0
30 (Mon)								
TOTAL	5228.2 ML	1150.18 MIG				8.0	0	8.0
MAX	214.7	47.24	25	13		5.1	0	5.1
AVE	180.3	39.66	20.8	10.6		0.3	0	0.3
MIN	153.4	33.75	17	8		0.0	0	0.0

ML = Million Litres MIG = Million Imperial Gallons

Average Rainfall for June (1914-2013)	36.1
Actual Rainfall: June	8.0
% of Average	22%
Average Rainfall (1914-2013): Sept 01 - Jun 29	1586.5
Actual Rainfall (2013-2014): Sept 01 - Jun 29	1238.0
% of Average	78%

Note: 10% of Snow depth applied to rainfall figures for snow to water equivalent.

Number days with precip. 0.2 or more
5

Water spilled at Sooke Reservoir to date = 3.5 Billion Imperial Gallons
 = 15.9 Billion Litres

SOOKE LAKE RESERVOIR STORAGE SUMMARY

2013 / 2014

