



Making a difference...together

## **BEDDIS WATER SERVICE COMMISSION**

Notice of Meeting on **Monday, September 14, 2015 at 1:00 PM**  
Salt Spring Public Library, 129 McPhillips Ave, Salt Spring Island, BC

Wayne McIntyre      Simon Wheeler      Ruth Waldick      Geoff Bartol

---

### **AGENDA**

**1. Approval of Agenda**

**2. Adoption of Minutes of June 22, 2015**

**3. Chair and Director Reports**

**4. Reports**

**4.1 2016 Operating and Capital Budget**

That the Beddis Water Service Commission recommend that the Capital Regional District Board:

1. Approve the 2016 operating and capital budget for the Beddis Water Service as presented;
2. Approve the 2016 parcel tax of \$615.00 and user charge of \$561.10 and consumption charge rates as presented; and
3. Balance the 2015 actual revenue and expenditures on the 2015 transfer to capital reserve fund.

**5. New Business**

**6. Outstanding Business**

**7. Adjournment**

---

*To ensure quorum, advise Tracey Shaver 250 537 4448 if you cannot attend.*



Making a difference...together

**Minutes of the Regular Meeting of the Beddis Water Service Commission  
Held June 22, 2015 Public Library Meeting Room, 129 McPhillips Avenue, Salt Spring  
Island, BC**

---

**DRAFT**

**Present:** **Director:** Wayne McIntyre  
**Commission Members:** Simon Wheeler (Chair), Ruth Waldick, Geoff Bartol  
**Staff:** Karla Campbell, Senior Manager; Keith Wahlstrom, Engineer, Dan Robson, Manager of Operations Integrated Water Services Saanich Peninsula and Gulf Islands, Erin Jory, Recording Secretary

The Chair called the meeting to order at 10:01 am.

**1. Approval of Agenda**

**MOVED** by Commissioner Waldick, **SECONDED** by Commissioner Bartol,  
That the Beddis Water Service Commission agenda of June 22, 2015 be approved.

**CARRIED**

**2. Approval of Minutes of March 12, 2015.**

**MOVED** by Commissioner Waldick, **SECONDED** by Commissioner Bartol,  
That the Beddis Water Service Commission minutes of March 12, 2015 be amended by replacing "daft" with "DAF" in item 4.1, and approved.

**CARRIED**

**3. Chair and Director Reports**

**3.1. Chair**

The chair welcomed Geoff Bartol to the Commission.

**3.2. Director**

- Tour des Iles completed with 1500 trips taken.
- Canada's 150<sup>th</sup> birthday July 1, 2017 – CEDC, SSITC and PARC applied for funding for Canada 150 Grant for a pathway and seawalk within Ganges, tying in the existing Harbour's End pathway in partnership with Island Pathways.
- Governance Study in progress.

**4. Reports**

**4.1 Beddis Water Treatment Plant-Emergency Capital Equipment Replacement**

- Failing components need replacement: pump stoppages setting off alarms requiring call outs to site. Variable frequency drive electrical capacitors damaged and irreparable, likely caused by an electrical strike through the ground.
- Adopt recommendation on pg. 2 of Report.
- Commissioner will be informed when equipment installed.

**MOVED** by Commissioner Wheeler, **SECONDED** by Commissioner Bartol,  
That the Beddis Water Local Service Commission approves up to \$14,000 from the Capital Reserve Fund 1069 to undertake emergency repairs of two variable frequency drivers and the purchase of one additional variable frequency driver at the Beddis Water Treatment Plant.

**CARRIED**

**5. New Business**

There were no items.

**6. Outstanding Business**

**Updates on Maintenance for 2015:**

- Intake off-gassing: opted to raise the intake screen one metre to move it from the anaerobic zone year-round. Installed a saddle and line on the intake pipe to bleed air from it.
- Divers found slack spot in line that may have caused hump at certain times. Raising intake one metre may help.
- Equipment purchased, jar testing commenced, waiting for SCADA readout. Dissolved oxygen and temperature are indicators of water quality changes, which indicate when to adjust the potassium permanganate feed rates.

**7. Adjournment**

**MOVED** by Commissioner Wheeler, **SECONDED** by Commissioner Waldick,  
That the meeting be adjourned at 11:07 am.

---

**CHAIR**

---

**SENIOR MANAGER**



Making a difference...together

**REPORT TO BEDDIS WATER SERVICE COMMISSION  
MEETING OF MONDAY, SEPTEMBER 14, 2015**

---

**SUBJECT 2016 OPERATING AND CAPITAL BUDGET**

**ISSUE**

This report provides a synopsis of the 2016 operating and capital budget, highlighting significant proposed changes related to operational expenditures, debt charges, capital expenditures and revenues for the Beddis Water Service.

In accordance with Bylaw No. 3693, "Beddis Service Commission Establishment Bylaw states, *"Before the end of November of each year, the Commission shall be presented with a five year operating and capital budgets for the services provided in the Service Area which shall include estimates for the administrative, development, maintenance, operational and other expenses, including debt charges, and shall submit such expenditure estimates, together with estimates for expected revenue, in a form approved by the Financial Officer of the CRD for the approval of the Regional Board and for inclusion in the Regional Board's preliminary and annual budgets."*

**BACKGROUND**

**2015 Estimated Revenue and Operating Expenditures**

The estimated actual 2015 operating costs are projected to be **\$13,890** (-9.3%) under budget as a result of the following:

1. Lower than budgeted expenditures for:
  - a. Grit and waste sludge disposal (\$2,000)
  - b. Repairs and maintenance (\$3,200)
  - c. Water testing (\$410)
  - d. Labour charges (\$5,580)
  - e. Other operating expenses (\$5,420)
  
2. Higher than budgeted expenditures for:
  - a. Allocations (\$320)
  - b. Electricity (\$200)
  - c. Supplies (\$2,200)

The estimated actual operating revenue is projected to be approximately **\$2,280** (1.0%) lower than budget as a result of:

- lower than budgeted revenue for water sales (\$2,380).
- higher than budgeted other revenue (\$100)

This results in a projected year-end surplus of **\$11,610**.

It is proposed that the projected year-end surplus be allocated to the capital reserve fund to increase the 2015 transfer from **\$0** to **\$11,610**.

### 2016 Operating Budget

An increase of **\$3,970** (2.7%) in the 2016 operating costs is proposed as a result of the following:

1. Decrease in expenditures for:
  - a. Repairs and maintenance (\$200)
2. Increase in expenditures for:
  - a. Operations contracts (\$820)
  - b. Grit and waste sludge disposal (\$120)
  - c. Allocations (\$390)
  - d. Water testing (\$1,030) additional algae sampling in the winter months and additional PH sampling at two water sampling stations
  - e. Electricity (\$600)
  - f. Labour charges (\$580)
  - g. Other operating expenses (\$630)

### 2016 Debt and Reserves

#### **2016 Maintenance Reserves**

Maintenance reserves are to be used for the purchase of equipment and supplies that are typically not replaced annually such as filter media, ultraviolet lamps and sensors and in some instances system maintenance activities such as reservoir cleaning and raw water intake inspections.

It is proposed to transfer \$2,500 to the maintenance reserve, a slight decrease from the 2015 level of \$3,710.

The maintenance reserve balance at the end of 2015 is projected to be **\$8,710**

#### **2016 Capital Reserve Fund**

The 2015 budget did not allocate funds to the capital reserve fund, however, due to the benefit of an operating surplus, a transfer of \$11,610 is being proposed in 2015 and it is recommended that annual transfers to a reserve fund be considered in order to prepare for the planned future capital improvement projects.

It is proposed that the transfer to the capital reserve fund be **\$15,000**.

The capital reserve fund balance at the end of 2015 is projected to be **\$63,630**.

#### **Capital Project Funds**

The Beddis water utility has two active Capital Project Funds as outlined below:

##### **WLA3193 192015 – New Waterworks Project Fund**

|                  |   |
|------------------|---|
| Purpose:         | Study specifications  |
| Funds Remaining: | \$1,972   |
| Status:          | Remaining funds were transferred to the Capital Reserve Fund in 2015. |

**WLA3193 192031 – SSI Study and Upgrade Fund**

Purpose: Strategic Asset Management Plan (SAMP) and Plant Scope/Cost Refinement  
 Funds Remaining: \$23,852 of which \$17,130 is committed.  
 Status: The Plant Scope/Cost Refinement is complete. The SAMP is not complete. Hold funds in account until the SAMP is complete.

**WLA3825 192015 – Beddis Water System Fund**

Purpose: Complete Upgrades to the Water System  
 Funds Remaining: \$60,133  
 Status: The fund had \$9,350 at the beginning of 2015 and has been used as a fund centre to manage the proposed 2015 capital work. To facilitate that, \$50,750 was transferred from the capital reserve fund into this fund and a further \$33 of interest was earned.

Closure of this fund will be reviewed by CRD in 2016 and if all work is completed, it is recommended that the account be closed and all surplus money transferred to the capital reserve fund.

A table summarizing the two accounts is shown below:

|                                  | <u>Balance in Capital Project Funds</u> |                 |                |               | <u>Spent</u>     | <u>Remaining</u> |                |
|----------------------------------|---|-----------------|----------------|---------------|------------------|------------------|----------------|
|                                  | <u>Budget</u>                           | <u>Funding</u>  |                | <u>Funds</u>  |                  | <u>Budget</u>    |                |
|                                  |   | <u>From CRF</u> | <u>Debt</u>    | <u>CWF</u>    |                  |                  |                |
| SAMP Study                       | 20,000                                  | -               | -              | 20,000        | (2,873)          | 17,127           | 17,127         |
| Plant Scope                      | 18,400                                  | -               | -              | 18,400        | (11,792)         | 6,608            | 6,608          |
| Interest Income                  |   |                 |                |               |                  | 117              | -              |
| <b>Sub-Total Fund WLA3193</b>    | <b>38,400</b>                           | <b>-</b>        | <b>-</b>       | <b>38,400</b> | <b>(14,665)</b>  | <b>23,852</b>    | <b>23,735</b>  |
| Water Treatment Improvements     | 460,000                                 | 60,000          | 370,000        | -             | (421,642)        | 8,358            | 38,358         |
| Resolve Intake Pump Air          | 7,500                                   | 7,500           | -              | -             | -                | 7,500            | 7,500          |
| Reduce Precipitate Creekside PCS | 4,250                                   | 4,250           | -              | -             | -                | 4,250            | 4,250          |
| Rebuild Emergency Repair of VFD  | 25,000                                  | 25,000          | -              | -             | -                | 25,000           | 25,000         |
|                                  | 14,000                                  | 14,000          | -              | -             | -                | 14,000           | 14,000         |
| Interest Income                  |   |                 |                |               |                  | 1,025            | -              |
| <b>Sub-Total Fund WLA3825</b>    | <b>510,750</b>                          | <b>110,750</b>  | <b>370,000</b> | <b>-</b>      | <b>(421,642)</b> | <b>60,133</b>    | <b>89,108</b>  |
| <b>Grand Total</b>               | <b>549,150</b>                          | <b>110,750</b>  | <b>370,000</b> | <b>38,400</b> | <b>(436,307)</b> | <b>83,985</b>    | <b>112,843</b> |

It should be noted that there is \$30,000 potential borrowing available from WLA 3825 as only \$370,000 of the \$400,000 allowable borrowing has been used. The ability to borrow against the

original loan authorization expires in 2017 as borrowing must be completed within a 5 year period.

### **MFA Debt**

The annual debt servicing costs decrease from \$72,790 to \$65,040 as one of the loans has reached its 10 year mark and therefore new interest rates apply. The interest rates have decreased since the initial borrowing, as a result the annual debt servicing amount will also decrease. The debt payment amount of \$65,040 is an estimate as the actual borrowing rate will not be set until later this year.

### **2016 Revenue (User Charge and Parcel Tax)**

It is proposed that:

- The practice of carrying forward year-end surplus amounts as revenue be reconsidered and all annual expenditures be funded through revenue generated in that year.
- Water sales revenue be decreased slightly from \$84,380 to \$84,000. This is a result of a steady decrease in water consumption for the service area and reflects the increased cost users faced in 2015. Currently, the volumetric water rate per quarterly billing period is:
  - \$2.50/m<sup>3</sup> for the first 38.0m<sup>3</sup> or portion
  - \$5.625/m<sup>3</sup> for the next 68.0m<sup>3</sup> or portion
  - \$7.50/m<sup>3</sup> greater than 106m<sup>3</sup>
- The user charge increase from \$57,530 to \$71,260; based on 127 single family equivalent (SFE) equates to \$561.10 (23.9% increase from 2015). This increase is necessary to offset no projected surplus carry forward.
- The parcel tax increase from \$71,590 to \$80,040; based on 137 taxable folios and including the 5.25% surveyors tax fee equates to \$615.00 (11.8% increase from 2015).

### 2016 - 2020 Five Year Capital Plan

Three capital projects planned for 2016:

1. The Creekside pressure control station (PCS) is planned to be rebuild in 2015 was deferred as new WorkSafeBC rules for confined entry required a design change. The design change eliminates the confined space. This is important as the new rules would have required two people to attend the site to complete any maintenance and this could significantly increase the annual operating budget (\$50,000).
2. The existing backwash system at the treatment plant has an operational issue related to refilling the fresh water tank used for backwashing the DAF. Alternate solutions will be reviewed, including the placement of an additional tank for fresh backwash water (\$8,000).
3. A review of the shower and eyewash safety equipment requirements was completed in 2015 and identified that a fixed tempered shower and an eyewash drench hose are needed to meet current WorkSafeBC safety requirements when working with the chemicals at the water treatment plant (\$10,000).

Due to workloads and operational priorities for Beddis, the dismantling of the existing Lautman tank and the completion of the Strategic Asset Management Plan (SAMP) have been deferred to 2017.

**RECOMMENDATIONS**

That the Beddis Water Service Commission recommend that the Capital Regional District Board:

1. Approve the 2016 operating and capital budget for the Beddis Water Service as presented;
2. Approve the 2016 parcel tax of \$615.00 and user charge of \$561.10 and consumption charge rates as presented; and
3. Balance the 2015 actual revenue and expenditures on the 2015 transfer to capital reserve fund.

---

Dan Robson, A.Sc.T  
Manager, Saanich Peninsula and Gulf  
Islands, Infrastructure Operations

---

Keith Wahlstrom, P.Eng.  
Manager, Engineering  
Salt Spring Island Electoral Area

for

---

Peggy Dayton, BCom, CPA  
Senior Financial Advisor  
Finance and Technology

---

Karla Campbell  
Senior Manager, Salt Spring Island Electoral  
Area  
Concurrence

---

Malcolm Cowley, P.Eng.  
Senior Manager, Infrastructure  
Engineering  
Concurrence

---

Ted Robbins, BSc., C Tech.  
General Manager, Integrated Water Services  
Concurrence

Attachment: Beddis Water 2016 Budget



# **CAPITAL REGIONAL DISTRICT**

## **2016 Budget**

### **Beddis Water (SSI)**

#### **Committee Review**

Compiled and Presented by CRD Finance

September 2015

**DEFINITION:**

To provide and operate water supply and distribution facilities for the Salt Spring Island Beddis Water System Service Area. Bylaw No. 3188 (November 24, 2004).

**PARTICIPATION:**

Order in Council No 176, February 24, 2005.

**MAXIMUM LEVY:**

Greater of \$133,000 or \$2.71 / \$1,000 of actual assessed value of land and improvements, to a maximum of \$196,727.

**MAXIMUM CAPITAL DEBT:**

Beddis Waterworks 1994 previous debt paid out 2011 \$95,909

AUTHORIZED: LA Bylaw No. 3193 (November 24, 2004)

BORROWED: SI Bylaw No. 3291 \$325,500

Remaining: \$0

4.17%

AUTHORIZED: LA Bylaw No. 3825 (July 11, 2012)

\$400,000

BORROWED: SI Bylaw No. 3882 (Jan 9, 2013) Matured 2023

(\$300,000)

BORROWED: SI Bylaw No. 3910 (July 2013)

(\$70,000)

Remaining: \$30,000

3.15%

3.85%

**COMMITTEE:**

Beddis Water Service committee established by Bylaw No. 3247 (Dec 15, 2004)

**FUNDING:**

Any deficiencies after user charge and/or frontage tax or parcel tax to be levied on taxable school assessments, excluding property that is taxable for school purposes by Special Act.

**User Charge:**

Fixed user charge + variable consumption charge to all metered properties.

**Parcel Tax:**

Annual, only on properties capable of being connected to the system, starting 2006.

**User Charge:**

- Annual Fixed Fee per Water Service Connection.
- The consumption charge for water will be the total volume of water metered to the water service connections, measured in cubic meters at the following rate: (BL3688 March 2010)
  - First 38 cubic metres or portion - \$2.50 / cubic metre
  - Next 68 cubic metres or portion - \$5.625 / cubic metre
  - Greater than 106 cubic metres - \$7.50 / cubic metre

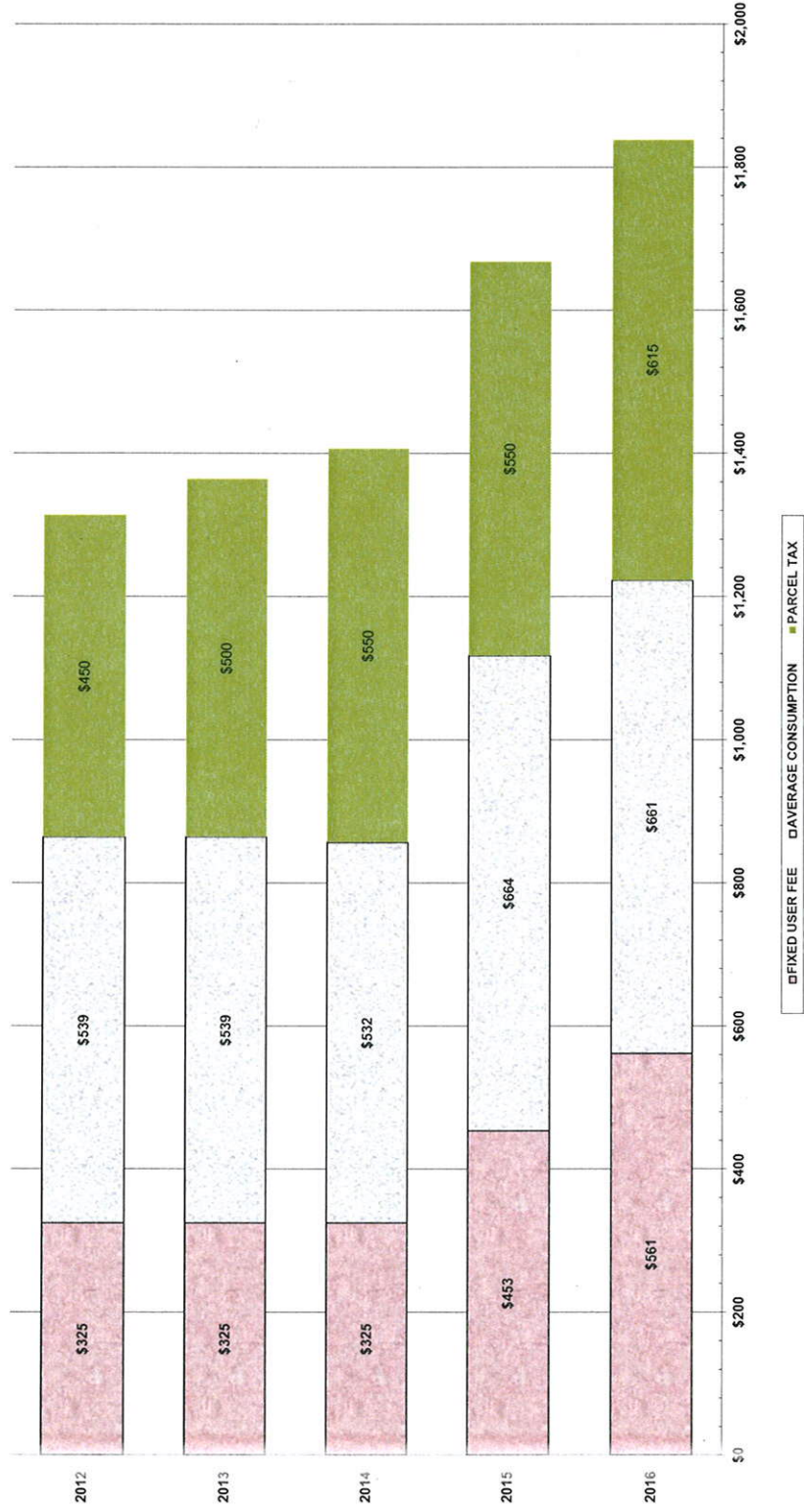
|   | 2015             |                  | BUDGET REQUEST   |                    |                  |                  | FUTURE PROJECTIONS |                  |                  |  |
|---|------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|--|
|   | BOARD BUDGET     | ESTIMATED ACTUAL | 2016 CORE BUDGET | 2016 SUPPLEMENTARY | TOTAL 2016       | 2017             | 2018               | 2019             | 2020             |  |
| <b>Beddis Water (SSI)</b>               |                  |                  |                  |                    |                  |                  |                    |                  |                  |  |
| <b>OPERATING COSTS:</b>                 |                  |                  |                  |                    |                  |                  |                    |                  |                  |  |
| Operations Contracts                    | 41,000           | 41,000           | 41,820           | -                  | 41,820           | 42,660           | 43,510             | 44,380           | 45,270           |  |
| Grit & Waste Sludge Disposal            | 15,000           | 13,000           | 15,120           | -                  | 15,120           | 15,420           | 15,720             | 16,040           | 16,360           |  |
| Repairs & Maintenance                   | 6,200            | 3,000            | 6,000            | -                  | 6,000            | 6,120            | 6,240              | 6,360            | 6,480            |  |
| Allocations                             | 11,440           | 11,760           | 11,830           | -                  | 11,830           | 12,080           | 12,330             | 12,580           | 12,840           |  |
| Water Testing                           | 7,910            | 7,500            | 8,940            | -                  | 8,940            | 9,120            | 9,300              | 9,490            | 9,680            |  |
| Electricity                             | 9,900            | 10,100           | 10,500           | -                  | 10,500           | 10,710           | 10,920             | 11,140           | 11,360           |  |
| Supplies                                | 10,000           | 12,200           | 10,000           | -                  | 10,000           | 10,200           | 10,400             | 10,600           | 10,810           |  |
| Labour Charges                          | 28,580           | 23,000           | 29,160           | -                  | 29,160           | 29,740           | 30,340             | 30,950           | 31,560           |  |
| Other Operating Expenses                | 18,860           | 13,440           | 19,490           | -                  | 19,490           | 19,850           | 20,220             | 20,590           | 20,980           |  |
| Contingency                             | -                | -                | -                | -                  | -                | -                | -                  | -                | -                |  |
| <b>TOTAL OPERATING COSTS</b>            | <b>148,890</b>   | <b>135,000</b>   | <b>152,860</b>   | <b>-</b>           | <b>152,860</b>   | <b>155,900</b>   | <b>158,980</b>     | <b>162,130</b>   | <b>165,340</b>   |  |
| *Percentage Increase over prior year    |                  |                  |                  |                    | 2.7%             | 2.0%             | 2.0%               | 2.0%             | 2.0%             |  |
| <b>DEBT/RESERVES</b>                    |                  |                  |                  |                    |                  |                  |                    |                  |                  |  |
| Transfer to Maintenance Reserve         | 3,710            | 3,710            | 2,500            | -                  | 2,500            | 2,550            | 2,600              | 2,650            | 2,700            |  |
| Transfer to Capital Reserve Fund        | -                | 11,610           | 15,000           | -                  | 15,000           | 25,000           | 35,000             | 40,000           | 50,000           |  |
| MFA Debt Reserve Fund                   | -                | -                | -                | -                  | -                | -                | -                  | -                | -                |  |
| MFA Debt Principal                      | 47,070           | 47,070           | 47,690           | -                  | 47,690           | 47,690           | 47,690             | 47,690           | 47,690           |  |
| MFA Debt Interest                       | 25,720           | 25,720           | 17,350           | -                  | 17,350           | 17,350           | 17,350             | 17,350           | 17,350           |  |
| <b>TOTAL DEBT / RESERVES</b>            | <b>76,500</b>    | <b>88,110</b>    | <b>82,540</b>    | <b>-</b>           | <b>82,540</b>    | <b>92,590</b>    | <b>102,640</b>     | <b>107,690</b>   | <b>117,740</b>   |  |
| <b>TOTAL COSTS</b>                      | <b>225,390</b>   | <b>223,110</b>   | <b>235,400</b>   | <b>-</b>           | <b>235,400</b>   | <b>248,490</b>   | <b>261,620</b>     | <b>269,820</b>   | <b>283,080</b>   |  |
| <b>FUNDING SOURCES (REVENUE)</b>        |                  |                  |                  |                    |                  |                  |                    |                  |                  |  |
| Estimated balance C/F from 2015 to 2016 | -                | -                | -                | -                  | -                | -                | -                  | -                | -                |  |
| Balance C/F from 2014 to 2015           | (11,890)         | (11,890)         | -                | -                  | -                | -                | -                  | -                | -                |  |
| Sales - Water                           | (84,380)         | (82,000)         | (84,000)         | -                  | (84,000)         | (85,680)         | (87,390)           | (89,140)         | (90,920)         |  |
| Connection Charges                      | -                | -                | -                | -                  | -                | -                | -                  | -                | -                |  |
| User Charges                            | (57,530)         | (57,530)         | (71,260)         | -                  | (71,260)         | (72,670)         | (74,090)           | (75,540)         | (77,020)         |  |
| Other Revenue                           | -                | (100)            | (100)            | -                  | (100)            | (100)            | (100)              | (100)            | (100)            |  |
| <b>TOTAL REVENUE</b>                    | <b>(153,800)</b> | <b>(151,520)</b> | <b>(155,360)</b> | <b>-</b>           | <b>(155,360)</b> | <b>(158,450)</b> | <b>(161,580)</b>   | <b>(164,780)</b> | <b>(168,040)</b> |  |
| <b>REQUISITION - PARCEL TAX</b>         | <b>(71,590)</b>  | <b>(71,590)</b>  | <b>(80,040)</b>  | <b>-</b>           | <b>(80,040)</b>  | <b>(90,040)</b>  | <b>(100,040)</b>   | <b>(105,040)</b> | <b>(115,040)</b> |  |
| *Percentage increase over prior year    |                  |                  |                  |                    |                  | 2.0%             | 2.0%               | 1.957%           | 1.959%           |  |
| User Fee                                |                  |                  |                  |                    |                  | 12.5%            | 11.1%              | 5.0%             | 9.5%             |  |
| Requisition                             |                  |                  |                  |                    |                  | 7.5%             | 7.0%               | 3.7%             | 6.4%             |  |
| Combined                                |                  |                  |                  |                    |                  |                  |                    |                  |                  |  |

Service: 2.624 Beddis Water (SSI) Committee: Electoral Area Services

| <u>Year</u> | <u>Taxable Folios</u> | <u>Parcel Tax</u> | <u>SFE's</u> | <u>User Charge*</u> | <u>Tax &amp; Charges</u> | <u>Bylaw</u> | <u>Assessments \$(000's)</u> |
|-------------|-----------------------|-------------------|--------------|---------------------|--------------------------|--------------|------------------------------|
| 2011        | 138                   | \$449.63          | 127          | \$313.00            | \$762.63                 | 3777         | 80,257                       |
| 2012        | 138                   | \$449.63          | 126          | \$324.56            | \$774.19                 | 3822         | 79,242                       |
| 2013        | 137                   | \$500.00          | 126          | \$324.56            | \$824.56                 | 3822         | 77,082                       |
| 2014        | 137                   | \$550.00          | 126          | \$324.56            | \$874.56                 | 3925         | 74,107                       |
| 2015        | 137                   | \$550.00          | 127          | \$453.00            | \$1,003.00               |              | 72,593                       |
| 2016 Budget | 137                   | \$615.00          | 127          | \$561.10            | \$1,176.10               |              |                              |

\* A variable consumption charge is paid in addition to the fixed user charge

# CAPITAL REGIONAL DISTRICT BEDDIS WATER FUNDING ANALYSIS 2012-2016



Actual Costs 2012-2015, Projected 2016  
Prepared by CRD Finance  
10/09/2015

# CAPITAL REGIONAL DISTRICT - SCHEDULE G

## CAPITAL BUDGET FORM

### 2016 & Forecast 2017 to 2020

Service #: 2.624

Service Name: Beddis Water (SSI)

| Year<br>(1)  | Type<br>Code<br>(2) | Specific Project Description<br>(3)                | Capital<br>Expense | Funding          |                     | Grant Program<br>Sponsor<br>(6) | Loan<br>Authorization #<br>(7) | Participants<br>(8) | % |
|--|---------------------|--|--------------------|------------------|---------------------|---------------------------------|--------------------------------|---------------------|---|
|  |                     |  |                    | Source<br>(4) ** | Amount Total<br>(5) |                                 |                                |                     |   |
| 2016   | S                   | Creekside PCS Rebuild                              | 50,000             | R                | 25,000              |                                 |                                |                     |   |
|  |                     |  |                    | C                | 25,000              |                                 |                                |                     |   |
| 2016   | S                   | Install Additional Backwash Fresh Water Tank       | 8,000              | R                | 8,000               |                                 |                                |                     |   |
| 2016   | S                   | Safety Equipment                                   | 10,000             | R                | 10,000              |                                 |                                |                     |   |
| 2017   | S                   | Strategic Asset Management Plan (SAMP)             | 17,130             | C                | 17,130              |                                 |                                |                     |   |
| 2017   | S                   | Lautman Reservoir Dismantelling                    | 30,000             | R                | 30,000              |                                 |                                |                     |   |
| 2018   | E                   | Booster Pump at Sky Valley Lower Reservoir         | 50,000             | R                | 50,000              |                                 |                                |                     |   |
| 2019   | E                   | Booster Pump at Sky Valley Lower Reservoir         | 50,000             | R                | 50,000              |                                 |                                |                     |   |
| 2020   | S                   | Sky Valley Reservoir Decommissioning/Dismantelling | 50,000             | R                | 50,000              |                                 |                                |                     |   |
| *** Please insert more lines here (above this line) if required. *** |                     |  |                    |                  |                     |                                 |                                |                     |   |
| <b>TOTAL</b>   |                     |  | 265,130            |                  | 265,130             |                                 |                                |                     |   |

|  |   |
|--|---|
| <p><b>Type Codes (2) *</b></p> <p>L = Land</p> <p>S = Engineering Structures</p> <p>B = Buildings</p> <p>V = Vehicles</p> <p>E = Equipment</p> | <p><b>Funding Source Codes (4) **</b></p> <p>D = Deberiture Debt (new debt only)</p> <p>E = Equipment Replacement Fund</p> <p>G = Grants (Federal, Provincial)</p> <p>O = Donations / Third Party Funding</p> |
|--|---|

**C = Capital Funds on Hand**  
**R = Reserve Fund**  
**S = Short Term Loans**  
**L = Lands Sales**

**Service: 2.624 Beddis Water (SSI)**

**Committee: Electoral Area Services**

**Creekside PCS Rebuild (2016)**

**\$50,000**

The existing pressure control station is at its end of life and requires replacement. Recent changes to WorksafeBC entrance to confined spaces has increased the cost.

**Install Additional Backwash Fresh Water Tank (2016)**

**\$8,000**

The existing backwash system at the treatment plant has an operational issue related to refilling the fresh water tank used for backwashing the DAF. Alternate solutions will be reviewed, including the placement of an additional tank for fresh backwash water.

**Safety Equipment (2016)**

**\$10,000**

A review of the shower and eyewash safety equipment requirements was completed in 2015 and identified that a fixed tempered shower and an eyewash drench hose are needed to meet current WorksafeBC safety requirements when working with the chemicals at the water treatment plant.

**Strategic Asset Management Plan - SAMP (2017)**

**\$17,130**

The Strategic Asset Management Plan will, within the budget available, recommend a prioritized list of infrastructure replacements which will serve as the basis for future capital spending.

**Lautman Reservoir Dismantelling (2017)**

**\$30,000**

The legal access to the reservoir and existing well is difficult. It is proposed to negotiate an access SRW with the property owner along a different route for the purpose of maintenance.

**Construction of Booster Pump at Sky Valley Lower Reservoir (2018 - 2019)**

**\$100,000**

The existing booster pump at the decommissioned Lautman reservoir site is to be abandoned and replaced with a new booster pump at the Sky Valley Lower Reservoir. This work should be confirmed through the SAMP

**Sky Valley Reservoir Decommissioning and Dismantelling (2020)**

**\$50,000**

Should the existing booster pump at the decommissioned Lautman reservoir site is to be abandoned and replaced with a new booster pump at the Sky Valley Lower Reservoir, the existing Sky Valley Reservoir will not be required. The reservoir is old and in poor condition..

**Reserve Schedule**

**Reserve Fund: Capital Reserve Fund - Bylaw 3274**

For capital repairs, additions and improvements to water system infrastructure

**Reserve Cash Flow**

**Fund: 1069 Fund Center: 101894**

|                          | Estimate<br>2015 | Budget        |               |               |              |              |
|--------------------------|------------------|---------------|---------------|---------------|--------------|--------------|
|                          |                  | 2016          | 2017          | 2018          | 2019         | 2020         |
| Beginning Balance        | 99,693           | 63,630        | 35,630        | 30,630        | 15,630       | 5,630        |
| Transfer from Ops Budget | 11,610           | 15,000        | 25,000        | 35,000        | 40,000       | 50,000       |
| Interest Income          | 1,000            | -             | -             | -             | -            | -            |
| Transfer from Cap Fund   | 2,077            | -             | -             | -             | -            | -            |
| Transfer to Cap Fund     | (50,750)         | (43,000)      | (30,000)      | (50,000)      | (50,000)     | (50,000)     |
| <b>Ending Balance \$</b> | <b>63,630</b>    | <b>35,630</b> | <b>30,630</b> | <b>15,630</b> | <b>5,630</b> | <b>5,630</b> |

Debt costs will be reduced by \$22k in 2021. Transfers to CRF may increase at that time