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**MAGIC LAKE ESTATES WATER AND SEWER COMMITTEE**  
Notice of Meeting on **Tuesday, November 12, 2019 at 9:30 am.**  
Main Conference Room, 479 Island Highway, Victoria, BC

Kathy Heslop (Chair)  
Wally Foster  
David Reed

Jean Deschenes  
Director Dave Howe

Michael Fossil  
Marika Kenwell

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**AGENDA**

1. Election of Chair
2. Approval of Agenda
3. Adoption of Minutes of October 8, 2019
4. Committee Business
  - 4.1. Water Update (verbal report with handout)
  - 4.2. Wastewater Update (verbal report with handout)
  - 4.3. Operations Update (verbal report with handout)
  - 4.4. Grants Discussion
5. 2020 Operating and Capital Budget (staff report #MLE2019-02)
6. New Business
7. Adjournment

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To ensure quorum, advise Sharon Orr at 250-474-9622 or [sorr@crd.bc.ca](mailto:sorr@crd.bc.ca) if you are unable to attend.

**Minutes of a Meeting of the Magic Lake Estates Water and Sewer Committee  
Held Tuesday, October 8, 2019 in the Main Conference Room, 479 Island Highway  
Victoria, BC**

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**PRESENT:** Committee Members: K. Heslop (Chair), M. Fossil, D. Reed, W. Foster, J. Deschenes, A. Wilson

**Staff:** I. Jesney, Senior Manager, Infrastructure Engineering; M. McCrank, Senior Manager, Infrastructure Operations, S. Orr (recorder)

**REGRETS:** D. Howe, Southern Gulf Islands Electoral Area Director

The meeting was called to order at 9:31 a.m.

**1. APPROVAL OF AGENDA**

The following item was added to the agenda:

**MOVED** by A. Wilson, **SECONDED** by D. Reed,  
That the Magic Lake Estates Water and Sewer Committee approve the agenda.

**CARRIED**

**2. ADOPTION OF MINUTES OF SEPTEMBER 10, 2019**

**MOVED** by M.Fossil, **SECONDED** by W. Foster,  
That the Magic Lake Estates Water and Sewer Committee adopt the minutes of the meeting held September 10, 2019.

**CARRIED**

**3. COMMITTEE BUSINESS**

**3.1. Water Update (verbal report with handout)**

I. Jesney presented a handout and provided updates on the following:

Water Treatment Plant – Stainless Steel Replacement

- Agreements to carry out the work are still being finalized.
- Currently waiting on a design sign off from the engineer, Kerr Wood Leidal.
- Remediation work is anticipated to proceed shortly after design sign off.

Schooner, Capstan and Signal Hill PRV

- Installation is complete with the exception of decorative wrapping.
- Image selection by the neighbors is complete and has been ordered.

Buck Lake Dam – 2019 Dam Safety Review

- Hatch Ltd. carried out the field inspection component on October 3<sup>rd</sup>.

Annual Dam Inspections

- CRD staff carried out the annual inspections of both Magic Lake and Buck Lake dams on October 3<sup>rd</sup>.

A discussion took place about the dam safety review and staff answered questions from the committee. I. Jesney stated that a report will be presented to the committee regarding the dam safety review.

### **3.2. Operations Update (verbal report with handout)**

M. McCrank presented a handout and provided updates on the following:

#### Water Operations Highlights:

- Replaced lid on wooden air valve box near 36163 Galleon Way.
- Replacement of a failed mechanical coupler on filter to rinse tank pump no 2 at the Water Treatment Facility.

#### Wastewater Operations Highlights:

- Emergency electrical repairs of a failed pump at Buccaneers Pump Station.
- Emergency response to a power outage at the Schooner Wastewater Treatment Facility.
- He stated that staff is aware of the presence of invasive species Tansy Ragwort and will try to mitigate the effects of overgrowth when possible.

Staff answered questions from the committee.

### **3.3. Wastewater Update (verbal report with handout)**

I. Jesney presented a handout which provided updates on the referendum process and progress.

A discussion took place about the referendum rules and regulations and non-resident property electors.

### **3.4. Grants Discussion**

I. Jesney stated that an inter-governmental grant opportunity opens on October 30, 2019 and closes on February 26, 2020 for water and wastewater opportunities.

A discussion took place about local political representation and obtaining grants.

Staff answered questions from the committee.

### **3.5. Update on Sewer/Water Billing**

I. Jesney stated that at the last meeting the committee asked staff to investigate hooking up the water usage to the sewer usage. He stated that a report would require input from Finance, IT and that in addition to a cost to the committee, the entire process could be up to a three years to investigate and complete.

A discussion about water and sewer billing.

Staff answered questions from the committee.

**3.6. Update on Water Conservation Incentives**

I. Jesney stated that the committee is able to offer residents in the local service area incentives for water conservation. He stated there are reserves on the water side that the committee can use.

Discussion about types of incentives and funding options.

Staff answered questions from the committee

**4. NEW BUSINESS**

A. Wilson stated it would be helpful for new members to have tours of the plants.

D. Reed thanked outgoing committee member A. Wilson for his work on the committee. A. Wilson thanked the committee and staff for their work.

**5. ADJOURNMENT**

**MOVED** by A. Wilson, **SECONDED** by D. Reed,  
That the meeting be adjourned at 10:51 a.m.

**CARRIED**

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Chair

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Secretary



**REPORT TO MAGIC LAKE ESTATES WATER AND SEWER COMMITTEE  
MEETING OF TUESDAY, NOVEMBER 12, 2019**

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**SUBJECT     2020 Operating and Capital Budget**

**ISSUE**

To present the 2020 operating and capital budget. In accordance with Bylaw No 2339 "Magic Lake Estates Water and Sewer Committee Bylaw 1995" the committee's approval of the annual budgets is required.

**BACKGROUND**

The Capital Regional District (CRD) is required by legislation under the *Local Government Act* (LGA) to prepare an annual Operating and Capital budget and a five year Financial Plan. CRD staff have therefore, prepared the financial plans for the following services:

1. Magic Lake Estates Water System Local Service.
2. Magic Lake Estates Sewerage System Local Service.

The Operating Budgets include the regular annual costs to operate the service. The Capital Expenditure Plan shows the anticipated expenditures for capital additions. These may include purchases of new assets or infrastructure upgrades, improvements to existing assets or asset review and study work potentially leading to future capital improvements.

In preparing the Operating Budget, CRD staff took into account:

1. Actual expenditures incurred between 2017 and 2019
2. Anticipated changes in level of service (if any)
3. Maximum allowable tax requisition
4. Annual cost per taxpayer and per Single Family Equivalent (SFE)

Factors taken into consideration in the preparation of the Capital Expenditure Plan included:

1. Available funds on hand
2. Projects in progress
3. Condition of existing assets and infrastructure
4. Regulatory, environmental and health and safety factors

Adjustments for surpluses or deficits from 2019 may be made in January 2020. The CRD Board will give final approval to the budget and financial plan in March 2020.

The Financial Plan for the years 2021 – 2024 may be changed in future years.

## **BUDGET OVERVIEW**

### **Magic Lake Estates Water System Local Service**

#### *Operating Budget*

It is anticipated that the 2019 operating expenses will be approximately \$13,230 under budget primarily due to lower repairs and maintenance costs and lower labour charges.

It is anticipated that the 2019 operating revenue will be \$2,145 more than budget. The additional revenue is primarily due to:

- Rental increase under the site license agreement with Shaw Cable Systems.
- Higher user charge revenue as a result of additional water service connections.

This results in an operating surplus of approximately \$15,375.

In order to balance the 2019 operating budget, CRD staff recommend that the operating surplus be transferred to the Capital Reserve Fund.

The 2020 operating budget for regular annual operating costs has been increased by 3.8% primarily to account for core inflation and higher labour costs.

#### *Municipal Finance Authority (MFA) Debt*

The annual debt servicing cost of \$219,670 is principal and interest on \$723,000 borrowed in 2010 at 4.50% interest, \$250,000 borrowed in 2011 at 4.20%, \$559,500 borrowed in 2012 at 2.9%, and \$1,002,500 at 3.15% and \$25,000 at 3.85% in 2013. These costs remain unchanged in 2020.

It should be noted that the Committee will have the opportunity to use its Capital Reserve Fund to pay off some or all of the remaining debt as these amounts reach their 10-year refinancing anniversaries between 2020 and 2023. Alternatively the debt amounts can continue to be paid for the remaining 5 years of their amortization periods.

#### *Operating Reserve Fund*

The Operating Reserve Fund is used to undertake maintenance activities that typically do not occur on an annual basis. Typical maintenance activities include hydrant/standpipe maintenance, reservoir cleaning and inspection. The operating reserve also funds the procurement of equipment and supplies that are not purchased on an annual basis. Additionally, the operating reserve could be used for emergency unplanned repairs.

It is proposed that the budgeted transfer to the Operating Reserve Fund remain at \$10,000 in 2020 to ensure future maintenance activities are fully funded and an optimum minimum balance in the reserve fund be maintained. There is approximately \$20,000 of non-annual planned maintenance planned over the next five years that will be funded from reserves.

The operating reserve balance at the end of 2019 is projected to be \$86,008

**Magic Lake Estates Water and Sewer Committee – November 12, 2019**  
**2020 Operating and Capital Budget**

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*Capital Reserve Fund*

The Capital Reserve Fund is used to pay for capital expenditures that are not funded by other sources such as grants, operating budget or debt.

It is proposed that the budgeted transfer to the Capital Reserve Fund in 2020 be held at the 2019 budget amount of \$92,390. The balance at the end of 2019 is projected to be \$776,485.

*Capital Expenditure Plan*

The 5-year plan includes \$1,344,000 of expenditures to be funded by a combination of the service's Capital Reserve Funds and new debt following a public engagement and referendum process planned for 2021. The new debt will fund dam infrastructure improvements and adjustable water intake infrastructure.

*Capital Projects Fund*

As specific capital projects are approved, the funding revenues for them are transferred into the Capital Project Fund from the Capital Reserve Fund. Whenever possible, any funds remaining upon completion of a project are transferred back to the Capital Reserve Fund for use on future capital projects. There is a planned transfer of \$41,499 from the Capital Projects Fund back to the Capital Reserve Fund for completed projects.

*User Charge and Parcel Tax*

User charges and parcel taxes fund the service. Properties connected to the water system pay the annual user charge and all properties within the local service area are responsible for the parcel tax. The proposed 2020 user charge is \$321.96 per Single Family Equivalent (SFE), an increase of \$19.86 (6.6%) from 2019. The parcel tax is proposed to increase by \$0.41 to \$498.22 from the 2019 rate of \$497.81 per taxable folio. The combined user charge and parcel tax increase is \$20.27 (2.5%). Historical user charge and parcel tax rates are included for information.

**Magic Lake Estates Sewerage System Local Service**

*Operating Budget*

It is anticipated that the 2019 operating expenses will be approximately \$34,930 over budget primarily due to higher costs associated with sludge hauling and disposal, chemicals (supplies) and labour charges due to repairs/replacement of failed equipment.

It is anticipated that the 2019 operating revenue will be approximately \$2,300 higher than budget primarily due to higher user charge revenue as a result of additional sewer connections.

This results in an operating deficit of approximately \$32,630.

In order to balance the 2019 operating budget, CRD staff recommend that the 2019 transfer to the Capital Reserve Fund be reduced by the projected deficit amount.

**Magic Lake Estates Water and Sewer Committee – November 12, 2019**  
**2020 Operating and Capital Budget**

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The 2020 operating budget for regular annual operating costs has been increased by 8.8% over the 2019 budget. This increase is primarily due to adjustments to sludge hauling and disposal costs, wastewater treatment plant chemical costs and increases in labour charges.

The 2020 operating budget also includes a \$15,000 expenditure to conduct the Schooner Wastewater Treatment Plant oxidation ditch cleaning and inspection to be funded by the Operating Reserve Fund.

*Municipal Finance Authority (MFA) Debt*

In 2020 debt servicing costs for previous borrowings are budgeted at \$174,120, comprised of interest and principal payments on \$745,000 borrowed in 2016 at 2.10% interest, \$250,000 borrowed in 2017 at 3.15%, and \$535,000 borrowed in 2018 at 3.20%.

Pending a successful referendum in November 2019, new 2020 debt borrowing of \$5,000,000 is planned with an estimated additional debt cost of \$83,054, bringing total 2020 servicing costs to \$257,174. In addition, all new borrowings require one time Debt Reserve Fund (DRF) being 1% of borrowing amount (\$50,000) withheld by MFA, which will be returned with interest earnings upon completion of the term.

*Operating Reserve Fund*

The Operating Reserve Fund is used to undertake maintenance activities that typically do not occur on an annual basis. Typical maintenance activities include treatment facility tank draining/cleaning/inspection and outfall inspections. The operating reserve also funds the procurement of equipment and supplies that are not purchased on an annual basis. Additionally, the operating reserve could be used for emergency unplanned repairs.

It is proposed that the budgeted transfer to the operating reserve remain at \$13,260 in 2020. There is approximately \$25,000 of non-annual maintenance planned over the next five years.

The Operating Reserve Fund balance at the end of 2019 is projected to be \$30,551.

*Capital Reserve Fund*

The Capital Reserve Fund is to be used to pay for capital expenditures that are not funded by other sources such as grants, operating budget or debt.

It is proposed that the budgeted transfer to the Capital Reserve Fund remain at \$80,000 to build up the reserve fund to assist funding future capital projects.

The estimated balance in the Capital Reserve Fund at the end of 2019 is \$188,678.

*Capital Expenditure Plan*

The 5-year plan includes \$ 9,000,000 of expenditures to be funded by a combination of the service's Capital Reserve Funds, capital funds on-hand and new debt under a public engagement and referendum process occurring 2019. The new debt will fund Phase I of wastewater system infrastructure improvement projects for the utility.



**Magic Lake Estates Water and Sewer Committee – November 12, 2019**  
**2020 Operating and Capital Budget**

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*Capital Projects Fund*

As specific capital projects are approved, the funding revenues for them are transferred into the Capital Project Fund from the Capital Reserve Fund. Whenever possible, any funds remaining upon completion of a project are transferred back to the Capital Reserve Fund for use on future capital projects. There are no funds to transfer back to the Capital Reserve Fund at this time.

*User Charge and Parcel Tax*

The user charge and parcel tax fund the service. Properties connected to the wastewater system pay the annual user charge and all properties within the local service area are responsible for the parcel tax. The proposed 2020 user charge is \$394.02 per Single Family Equivalent (SFE), an increase of \$12.48 (3.3%) over 2019. The parcel tax is proposed to be \$1,030.90 per taxable folio, an increase of \$253.30 (32.6%) over the 2019 amount. The parcel tax increase is primarily the result of additional debt servicing costs for the wastewater improvements phase I capital project, which is pending a successful referendum in Nov 2019. The combined user charge and parcel tax increase is \$265.77 (22.9%). Historical user charge and parcel tax rates are included for information.

**RECOMMENDATION**

That the Magic Lake Estates Water and Sewer Committee:

1. Approve the 2020 Operating and Capital Budget for the:
  - Magic Lake Estates Water System Local Service as presented and recommend that the 2019 actual surplus or deficit be balanced on the 2019 transfer to the Capital Reserve Fund; and
  - Magic Lake Estates Sewerage System Local Service as presented and recommend that the 2019 actual surplus or deficit be balanced on the 2019 transfer to the Capital Reserve Fund; and
2. Recommend that the Electoral Area Services Committee recommend that the CRD Board approve the 2020 Operating and Capital Budget and the five year Financial Plan for the Magic Lake Estates Water and Sewer Services as presented.

Submitted by:	Matthew McCrank, M.Sc., P.Eng., Senior Manager, Infrastructure Operations
Submitted by:	Ian Jesney, P.Eng. Senior Manager, Infrastructure Engineering
Submitted by:	Rianna Lachance, BCom, CPA CA Senior Manager, Financial Services
Concurrence	Ted Robbins, B.Sc., C.Tech., General Manager, Integrated Water Services
Concurrence	Robert Lapham, MCIP, RPP, Chief Administrative Officer

MMc/IJ/AD:td/so

Attachment: Appendix A: 2020 Magic Lake Estates Operating and Capital Budget

# **CAPITAL REGIONAL DISTRICT**

## **2020 Budget**

### **Magic Lake Estates Water**

#### **Committee Review**

<b>Service:</b> <b>2.630 Magic Lake Estates Water</b>	<b>Committee: Electoral Area Services</b>
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**DEFINITION:**

LSA -1 To provide and operate water supply and distribution facilities for the Magic Lake Estates Water System. Specified Area on North Pender Island. Bylaw No. 1874 (June 11, 1991).

**PARTICIPATION:**

Local Service Area # 1 - D(764) LSA #9.

**MAXIMUM LEVY:**

Greater of \$160,000 or \$3.50 / \$1,000 of actual assessed value of land and improvements. To a maximum of \$1,644,455

**MAXIMUM CAPITAL DEBT:**

AUTHORIZED:	LA Bylaw No. 3633 (Nov 2009).	\$	2,560,000
BORROWED:	SI Bylaw 3677 (Feb 2010).	\$	(723,000)
BORROWED:	SI Bylaw 3769 (Feb 2011).	\$	(250,000)
BORROWED:	SI Bylaw 3850 (Aug 2012).	\$	(559,500)
BORROWED:	SI Bylaw 3882 (Apr 2013).	\$	(1,002,500)
BORROWED:	SI Bylaw 3910 (July 2013).	\$	(25,000)
REMAINING AUTHORIZATION:		\$	0

**COMMITTEE:**

Magic Lake Estates Water & Sewer Committee established by Bylaw No. 1870 (November 28, 1990).

**FUNDING:**

Any deficiencies after user charge and/or frontage tax or parcel tax to be levied on taxable school assessments.

**User Charge:** Annual charge per single family equivalency unit connected to the system.  
 The consumption charge for water will be the total volume of water metered to the water service connections, measured in cubic metres at the following rate: (BL4247 Dec 2018)

- Greater than 50 cubic metres - \$0.50 / cubic metre
- Greater than 80 cubic metres - \$1.00 / cubic metre

**Parcel Tax:** LSA-1 Annual charge only on properties capable of being connected to the system.

**Turn on/Turn Off Fee:** \$0 during normal working hours; \$25 outside of normal working hours

**Connection Charges:** Actual Engineering and Construction costs, plus 15% Administration costs. The minimum charge is \$500 - Bylaw No. 4247 (Dec 2018)

**RESERVE FUND:**

Magic Lake Estates - Water System Capital Reserve Fund. Bylaw No. 1498

Magic Lake Estates Water	2019		BUDGET REQUEST				FUTURE PROJECTIONS			
	BOARD BUDGET	ESTIMATED ACTUAL	CORE BUDGET	2020 ONGOING	ONE-TIME	TOTAL	2021	2022	2023	2024
<b>OPERATING COSTS:</b>										
Repairs & Maintenance	44,680	40,000	22,080	-	-	22,080	42,560	23,050	23,570	24,090
Allocations	40,080	40,080	44,164	-	-	44,164	47,937	51,812	52,761	53,730
Water Testing	18,480	15,000	18,850	-	-	18,850	19,260	19,680	20,110	20,550
Electricity	49,400	53,100	51,380	-	-	51,380	52,510	53,670	54,850	56,060
Supplies	44,930	44,910	45,820	-	-	45,820	46,840	47,880	48,940	50,020
Labour Charges	364,260	355,000	377,009	-	-	377,009	385,306	393,780	402,445	411,296
Other Operating Expenses	45,500	46,010	47,330	-	-	47,330	48,330	49,350	50,410	51,500
<b>TOTAL OPERATING COSTS</b>	<b>607,330</b>	<b>594,100</b>	<b>606,633</b>	-	-	<b>606,633</b>	<b>642,743</b>	<b>639,222</b>	<b>653,086</b>	<b>667,246</b>
*Percentage Increase over prior year						-0.1%	6.0%	-0.5%	2.2%	2.2%
Transfer from Operating Reserve Fund	(23,000)	(23,000)	-	-	-	-	(20,000)	-	-	-
<b>NET OPERATING COSTS</b>	<b>584,330</b>	<b>571,100</b>	<b>606,633</b>	-	-	<b>606,633</b>	<b>622,743</b>	<b>639,222</b>	<b>653,086</b>	<b>667,246</b>
*Percentage Increase over prior year						3.8%	2.7%	2.6%	2.2%	2.2%
<b>DEBT/RESERVES</b>										
Transfer to Maintenance Reserve	10,000	10,000	10,000	-	-	10,000	10,000	10,000	10,000	10,000
Transfer to Capital Reserve Fund	92,390	107,765	92,390	-	-	92,390	94,420	96,500	98,620	100,790
MFA Debt Reserve Fund	-	-	670	-	-	670	670	670	670	670
MFA Debt Principal	127,860	127,860	127,860	-	-	127,860	127,860	127,860	182,970	193,720
MFA Debt Interest	91,810	91,810	91,810	-	-	91,810	91,810	117,790	128,350	129,420
<b>TOTAL DEBT / RESERVES</b>	<b>322,060</b>	<b>337,435</b>	<b>322,730</b>	-	-	<b>322,730</b>	<b>324,760</b>	<b>352,820</b>	<b>420,610</b>	<b>434,600</b>
<b>TOTAL COSTS</b>	<b>906,390</b>	<b>908,535</b>	<b>929,363</b>	-	-	<b>929,363</b>	<b>947,503</b>	<b>992,042</b>	<b>1,073,696</b>	<b>1,101,846</b>
<b>FUNDING SOURCES (REVENUE)</b>										
Sales - Water	(18,000)	(18,000)	(18,000)	-	-	(18,000)	(18,400)	(18,800)	(19,210)	(19,630)
Lease Revenue	(8,100)	(8,505)	(8,500)	-	-	(8,500)	(8,500)	(8,500)	(8,500)	(8,500)
User Charges	(310,560)	(312,200)	(332,903)	-	-	(332,903)	(338,123)	(359,222)	(435,646)	(452,016)
Other Revenue	(740)	(840)	(970)	-	-	(970)	(970)	(970)	(970)	(970)
TOTAL REVENUE	<b>(337,400)</b>	<b>(339,545)</b>	<b>(360,373)</b>	-	-	<b>(360,373)</b>	<b>(365,993)</b>	<b>(387,492)</b>	<b>(464,326)</b>	<b>(481,116)</b>
<b>REQUISITION - PARCEL TAX</b>	<b>(568,990)</b>	<b>(568,990)</b>	<b>(568,990)</b>	-	-	<b>(568,990)</b>	<b>(581,510)</b>	<b>(604,550)</b>	<b>(609,370)</b>	<b>(620,730)</b>

**Magic Lake Estates Water  
Reserves Summary  
2020 - 2024 Financial Plan**

**Reserve/Fund Summary**

	<b>Estimated</b>	<b>Budget</b>				
	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Maintenance Reserve	86,008	96,008	86,008	96,008	106,008	116,008
Capital Reserve Fund	776,485	854,875	924,295	1,020,795	1,119,415	1,220,205
<b>Total</b>	<b>862,493</b>	<b>950,883</b>	<b>1,010,303</b>	<b>1,116,803</b>	<b>1,225,423</b>	<b>1,336,213</b>

<b>Reserve Schedule</b>
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<b>Reserve Fund: 2.630 Magic Lake Estates Water (Pender) Capital Reserve Fund - Bylaw 1498</b>
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<b>Reserve Cash Flow</b>
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**Fund: 1024 Fund Center: 101368**

	<b>Estimated</b>	<b>Budget</b>				
	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
<b>Beginning Balance</b>	676,988	776,485	854,875	924,295	1,020,795	1,119,415
<b>Transfer to Cap Fund (Based on Capital Plan)</b>	(50,000)	(14,000)	(25,000)	-	-	-
<b>Transfer from Cap Fund</b>	41,499	-	-	-	-	-
<b>Transfer from Operating Budget</b>	92,390	92,390	94,420	96,500	98,620	100,790
<b>Interest Income</b>	15,608	-	-	-	-	-
<b>Ending Balance \$</b>	<b>776,485</b>	<b>854,875</b>	<b>924,295</b>	<b>1,020,795</b>	<b>1,119,415</b>	<b>1,220,205</b>

**Reserve Schedule**

**Reserve Fund: 2.630 Magic Lake Estates Water (Pender) Operating Reserve Fund (Bylaw No. 4144)**

Reserve fund used for: unforeseen operational repairs and maintenance; infrequent maintenance activities such as reservoir cleaning and inspection, hydrant maintenance etc. Optimum minimum balance of \$50,000 (approximately 10%) of the annual operating budget.

**Reserve Cash Flow**

	<b>Estimated</b>	<b>Budget</b>				
	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Fund 1500 Fund Centre 105212						
<b>Beginning Balance</b>	96,535	86,008	96,008	86,008	96,008	106,008
<b>Transfer from Operating Budget</b>	10,000	10,000	10,000	10,000	10,000	10,000
<b>Interest Income</b>	2,473	-	-	-	-	-
<b>Transfer to Operating Budget</b>	(23,000)	-	(20,000)	-	-	-
Planned maintenance activity	Captains Reservoir cleaning and inspection. Electrical Systems Arc Flash Study Maintenance		Frigate reservoir cleaning & inspection			
<b>Ending Balance \$</b>	<b>86,008</b>	<b>96,008</b>	<b>86,008</b>	<b>96,008</b>	<b>106,008</b>	<b>116,008</b>

CAPITAL REGIONAL DISTRICT CAPITAL PLAN

CAPITAL BUDGET FORM  
2020 & Forecast 2021 to 2024

Service #: 2.630  
Service Name: Magic Lake Estates Water (Pender)

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

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

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

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

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

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

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

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

FIVE YEAR FINANCIAL PLAN

Proj. No.	Capital Exp.Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carry Forward from 2019	2020	2021	2022	2023	2024	5 - Year Total
19-02	Replacement	Buck Lake East Dam Detailed Design	Design for replacement of the Buck Lake East Dam.	\$80,000	E	Cap	\$0	\$80,000	\$0	\$0	\$0	\$0	\$80,000
19-03	Renewal	Public Engagement for Future Projects	Inform and engage public within service area on upcoming works that will require borrowing to fund.	\$10,000	E	Res	\$0	\$0	\$10,000	\$0	\$0	\$0	\$10,000
20-03	Renewal	Referendum - Funding for Future Projects	Undertake a referendum to borrow funds to carry out the Buck Lake East Dam Remediation and adjustable intakes construction.	\$15,000	E	Res	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000
20-04	New	WTP Roof Snowguard Installation	Snow fall in February 2019 highlighted that snowguards are required on the roof of the WTP to ensure Operator safety.	\$14,000	E	Res	\$0	\$14,000	\$0	\$0	\$0	\$0	\$14,000
21-02	Replacement	Design Buck Lake and Magic Lake Adjustable Intakes	Detailed design of adjustable intakes to inform future capital works to maintain water quality.	\$25,000	E	Debt	\$0	\$0	\$0	\$25,000	\$0	\$0	\$25,000
21-03	Renewal	Buck Lake East Dam Remediation	Remediation of the Buck Lake East Dam.	\$1,000,000	S	Debt	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
22-01	Replacement	Construction of Adjustable Intakes	Based upon Project 21-02, construct new adjustable intakes for Buck and Magic Lake.	\$200,000	E	Debt	\$0	\$0	\$0	\$0	\$200,000	\$0	\$200,000
<b>GRAND TOTAL</b>				<b>\$1,344,000</b>			<b>\$0</b>	<b>\$94,000</b>	<b>\$25,000</b>	<b>\$1,025,000</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$1,344,000</b>



**Service:** 2.630                      **Magic Lake Estates Water (Pender)**

<b>Proj. No.</b> 19-02	<b>Capital Project Title</b> Buck lake East Dam Detailed Design	<b>Capital Project Description</b> Design for replacement of the Buck Lake East Dam.
<b>Asset Class</b> Equipment	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> <i>The 2013 geotechnical report identifies a sand layer in the dam that may liquefy during an earthquake, leading to possible dam failure. This item is to complete detailed design and obtain regulatory approvals for the remediation option selected in the preliminary design stage. Also included in this item is engineering contract administration which will take place during the project. <b>This project has been moved from 2016 to 2019.</b></i>		
<b>Proj. No.</b> 19-03	<b>Capital Project Title</b> Public Engagement for Future Projects	<b>Capital Project Description</b> Inform and engage public within service area on upcoming works that will require borrowing to fund.
<b>Asset Class</b> Equipment	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> <i>Proposed planning and public engagement session for future projects to communicate the need, rationale and costs of water system improvements to the customers. Improvements include Buck Lake East Dam Remediation and Buck and Magic Lake adjustable intakes. Funds are required for staff time to prepare presentation materials, notifications and attend public engagement.</i>		
<b>Proj. No.</b> 20-03	<b>Capital Project Title</b> Referendum - Funding for Future Projec	<b>Capital Project Description</b> Undertake a referendum to borrow funds to carry out the Buck Lake East Dam Remediation and adjustable intakes construction.
<b>Asset Class</b> Equipment	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> <i>Upon completion of public engagement, a referendum is proposed to obtain elector assent to fund future capital projects. This budget item is for presentation materials, notifications, advertisements and other referendum costs.</i>		

**Service:** 2.630 **Magic Lake Estates Water (Pender)**

<b>Proj. No.</b> 20-04	<b>Capital Project Title</b> WTP Roof Snowguard Installation	<b>Capital Project Description</b> Snow fall in February 2019 highlighted that snowguards are required on the roof of the WTP to ensure Operator safety.
<b>Asset Class</b> Equipment	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> Heavy snow falls in 2019 highlighted that roof snowguards are required on the roof of the WTP to ensure Operator safety. Funds are required to retain a contractor to supply and install snow guards.		
<b>Proj. No.</b> 21-02	<b>Capital Project Title</b> Design Buck lake and Magic Lake Adjus	<b>Capital Project Description</b> Detailed design of adjustable intakes to inform future capital works to maintain water quality.
<b>Asset Class</b> Equipment	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> Magic Lake currently does not have an adjustable intake and the Buck Lake adjustable intake is expected to reach the end of its design life by 2021. This budget item is just to complete a detailed design that can be used for both lakes, and the construction of the new intakes is proposed for 2022.		
<b>Proj. No.</b> 21-03	<b>Capital Project Title</b> Buck Lake East Dam Remediation	<b>Capital Project Description</b> Remediation of the Buck Lake East Dam.
<b>Asset Class</b> Engineered Structures	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> The 2013 geotechnical report identifies a sand layer in the dam that may liquefy during an earthquake, leading to possible dam failure. This item is to complete remediation of the dam in accordance with the Dam Safety Regulations.		
<b>Proj. No.</b> 22-01	<b>Capital Project Title</b> Construction of Adjustable Intakes	<b>Capital Project Description</b> Based upon Project 21-02, construct new adjustable intakes for Buck and Magic Lake.
<b>Asset Class</b> Equipment	<b>Board Priority Area</b> Integrated Water Management	<b>Corporate Priority Area</b> Drinking Water
<b>Project Rationale</b> Construction of the adjustable intakes for Buck Lake and Magic Lake based upon 2021's capital project for design will be undertaken. Funds are required to procure and install the adjustable intakes.		

<b>Magic Lake Estates Water</b>
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**Capital Projects Fund**

Project#	Status	Capital Project Description	Total Budget	Expenditure Actuals	Remaining Funds	Funding Source-CRF*	Funding Source-Grants**	Funding Source-OPS***	Funding Source-Debt****	Funding Source-Interest*****	Return Surplus to CRF*	Return Surplus to CWF**
2010/CE.258	OPEN	Water system upgrade	8,972,500	8,646,745	325,755	360,166	5,310,334	742,000	2,560,000	-	-	-
2014/CE.399	CLOSED	Buck Lake East Dam	40,000	37,961	2,039	40,000	-	-	-	-	2,039	-
2014/CE.400	OPEN	South Dam Safety Upgrade	39,000	28,182	10,818	39,000	-	-	-	-	-	-
2015/CE.468	OPEN	Signall Hill PRV	147,625	146,001	1,624	117,950	29,675	-	-	-	-	1,624
2015/CE.469	OPEN	Adjustable intake	20,000	4,593	15,407	20,000	-	-	-	-	4,593	-
2015/CE.471	OPEN	Buck Lake Building	40,000	39,184	816	40,000	-	-	-	-	816	-
2016/CE.363	OPEN	North Dam ROW	10,000	16,944	(6,944)	10,000	-	-	-	-	-	-
2016/CE.480	CLOSED	Buck Lake Intake Line	5,000	2,867	2,133	5,000	-	-	-	-	2,133	-
2016/CE.481	OPEN	Safety Equip	8,000	6,007	1,993	8,000	-	-	-	-	1,993	-
2016/CE.531	CLOSED	Storage Bldg Electricity	8,000	6,482	1,518	8,000	-	-	-	-	1,518	-
2016/CE.493	OPEN	Buck Lake East Dam	120,000	1,560	118,440	120,000	-	-	-	-	-	-
2016/CE.514	OPEN	Referendum	10,000	-	10,000	10,000	-	-	-	-	-	-
2017/CE.625	OPEN	Referendum	10,000	-	10,000	10,000	-	-	-	-	-	-
2018/CE.648	OPEN	Capstan Way PRV	100,000	100,000	0	100,000	-	-	-	-	-	-
2017/CE.626	CLOSED	Spyglass Road barriers	8,000	7,593	407	8,000	-	-	-	-	407	-
2019/CE.678	OPEN	Buck Lake Dam Safety Review	50,000	4,221	45,779	50,000	-	-	-	-	-	-
2018/CE.671	OPEN	Air Valve Upgrades	110,000	0	110,000	110,000	-	-	-	-	-	-
2018/CE.672	CLOSED	Frigate Reservoir Railing	15,000	10,898	4,102	15,000	-	-	-	-	3,000	-
2017/CE.614	CLOSED	ISOPAC Storage and Handling	40,000	12,139	27,861	40,000	-	-	-	-	25,000	-
2016/CE.544	OPEN	Schnoor PRV Upgrade	100,000	100,000	0	100,000	-	-	-	-	-	-
		Totals	9,853,125	9,171,377	539,785	1,211,116	5,340,009	742,000	2,560,000	-	41,499	1,624

\* CRF (Capital Reserve Fund)

\*\* CWF (Community Works Fund) and Provincial Grants

\*\*\* OPS (Operating Budget)

\*\*\*\* Debt (MFA Debt)

\*\*\*\*\* Interest (Interest Income)

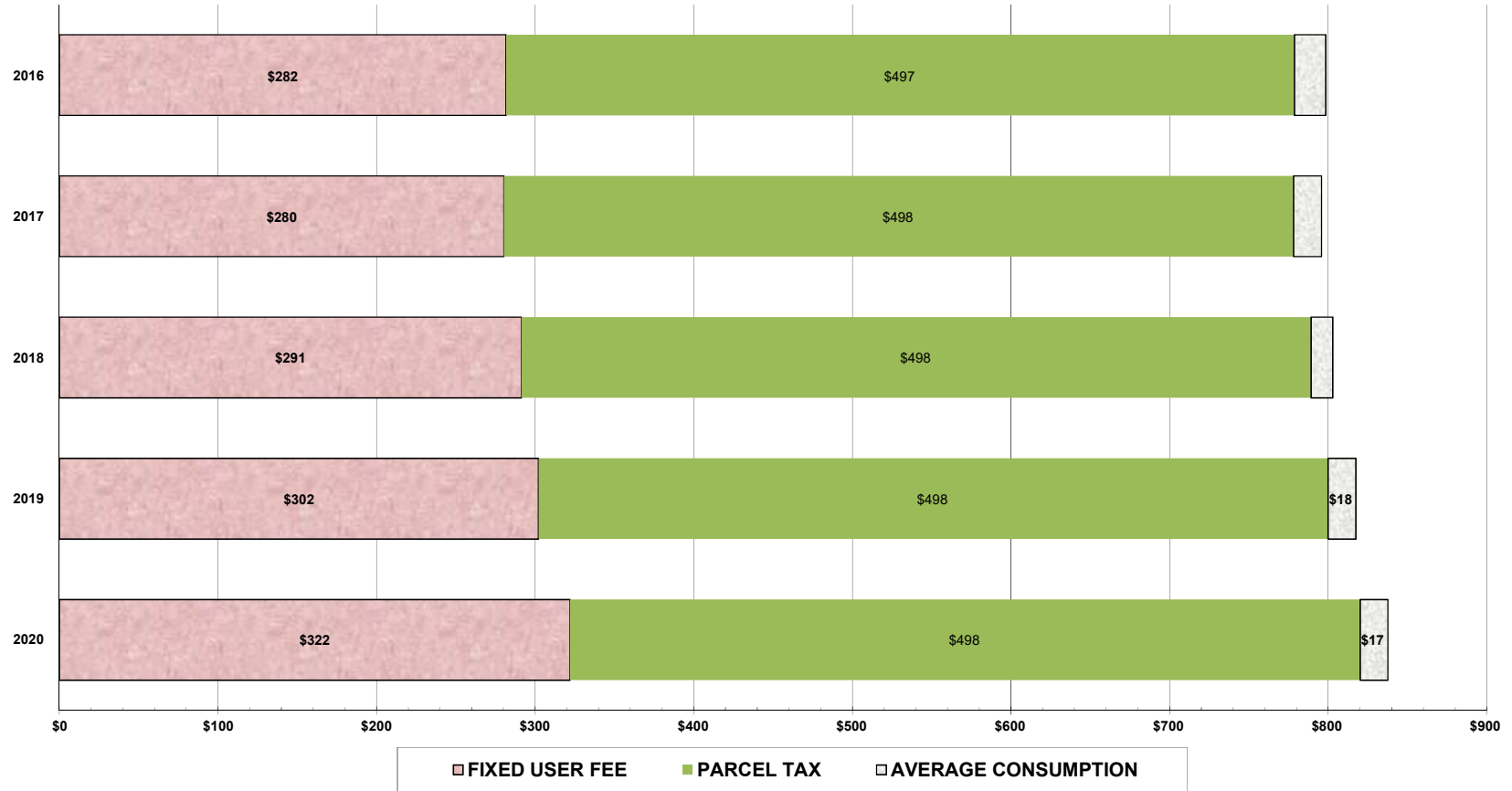
Service: 2.630

Magic Lake Estates Water

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>Assessments \$(000's)</u>
2012	1,206	\$496.57	1,005	\$250.00	\$746.57	390,273
2013	1,206	\$496.57	1,008	\$250.00	\$746.57	356,311
2014	1,206	\$496.57	1,011	\$250.00	\$746.57	336,526
2015	1,206	\$496.57	1,012	\$250.00	\$746.57	327,129
2016	1,205	\$496.98	1,015	\$281.69	\$778.67	327,129
2017	1,203	\$497.81	1,020	\$280.31	\$778.12	328,977
2018	1,203	\$497.81	1,020	\$291.37	\$789.18	407,279
2019	1,203	\$497.81	1,028	\$302.10	\$799.91	469,844
2020	1,202	\$498.22	1,034	\$321.96	\$820.18	

# CAPITAL REGIONAL DISTRICT MAGIC LAKE ESTATES WATER FUNDING ANALYSIS 2016-2020



Actual Costs 2016-2018, Projected 2019/2020  
Prepared by CRD Finance

# **CAPITAL REGIONAL DISTRICT**

## **2020 Budget**

### **Magic Lake Sewer Utility (Pender)**

#### **Committee Review**

**Service:** 3.830 Magic Lake Sewer Utility (Pender)

**Committee:** Electoral Area Services

**DEFINITION:**

To provide, operate and maintain sewage collection and disposal facilities for the Magic Lake Estates Sewerage System Specified Area on North Pender Island (Local Service Establishment Bylaw No. 1873 - June 26, 1991).

**PARTICIPATION:**

Specified Area - B(764) SA#8

**MAXIMUM LEVY:**

Greater of \$200,000 or \$7.10 / \$1,000 to a maximum of \$2,039,709 on actual assessed value of land and improvements.

**MAXIMUM CAPITAL DEBT:**

**AUTHORIZED:** LA Bylaw No. 4048 (Dec 2015). Fall Borrowing \$1,530,000 for 10 years

**COMMITTEE:**

Magic Lake Estates Water & Sewer Committee established by Bylaw No. 1870 (November 28, 1990).

**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 only by Special Act.

**User Charge:** Per single family equivalency unit to connected properties only (Bylaw 4274, Dec 12, 2018)

**Parcel Tax:** Only on properties capable of being connected to system.

**Connection Charge:** Actual Engineering and Construction costs, plus 15% Administration costs. The minimum charge is \$500 - Bylaw No. 4274 (Dec 2018)

**RESERVE FUND:**

Magic Lake Estates sewage system capital reserve fund (Dec 17, 1986). Bylaw No. 1497.

	2019		BUDGET REQUEST				FUTURE PROJECTIONS			
	BOARD BUDGET	ESTIMATED ACTUAL	CORE BUDGET	ONGOING	ONE-TIME	TOTAL	2021	2022	2023	2024
<b>Magic Lake Sewer Utility (Pender)</b>										
<u>OPERATING COSTS:</u>										
Sludge Hauling Contracts	73,000	85,800	87,450	-	-	87,450	89,370	91,340	93,350	95,400
Grit & Waste Sludge Disposal	73,000	85,800	87,450	-	-	87,450	89,370	91,340	93,350	95,400
Repairs & Maintenance	18,430	15,400	23,480	-	-	23,480	8,660	18,850	9,040	9,240
Allocations	33,470	33,470	37,588	-	-	37,588	39,784	42,055	42,821	43,604
Electricity	22,810	20,500	22,810	-	-	22,810	23,310	23,820	24,340	24,880
Supplies	16,470	20,790	21,160	-	-	21,160	21,630	22,100	22,590	23,090
Labour Charges	253,430	265,600	261,136	-	-	261,136	266,877	272,748	278,747	284,879
Other Operating Expenses	32,800	30,980	32,300	-	-	32,300	32,980	33,670	34,390	35,110
<b>TOTAL OPERATING COSTS</b>	<b>523,410</b>	<b>558,340</b>	<b>573,374</b>	<b>-</b>	<b>-</b>	<b>573,374</b>	<b>571,981</b>	<b>595,923</b>	<b>598,628</b>	<b>611,603</b>
*Percentage Increase over prior year						9.5%	-0.2%	4.2%	0.5%	2.2%
Transfer from Operating Reserve Fund	(10,000)	(10,000)	(15,000)	-	-	(15,000)	-	(10,000)	-	-
<b>NET OPERATING COSTS</b>	<b>513,410</b>	<b>548,340</b>	<b>558,374</b>	<b>-</b>	<b>-</b>	<b>558,374</b>	<b>571,981</b>	<b>585,923</b>	<b>598,628</b>	<b>611,603</b>
*Percentage Increase over prior year						8.8%	2.4%	2.4%	2.2%	2.2%
<u>DEBT/RESERVES</u>										
Transfer to Capital Reserve Fund	80,000	47,370	80,000	-	-	80,000	81,760	83,560	85,400	87,280
Transfer to Operating Reserve Fund	13,260	13,260	13,260	-	-	13,260	13,550	13,850	14,150	14,460
Debt Reserve Fund	-	-	50,260	-	-	50,260	10,260	260	260	260
MFA Principal Payment	130,410	130,410	133,470	-	-	133,470	238,570	259,590	259,590	259,590
MFA Interest Payment	39,110	39,110	123,704	-	-	123,704	225,513	233,550	233,550	233,550
<b>TOTAL DEBT / RESERVES</b>	<b>262,780</b>	<b>230,150</b>	<b>400,694</b>	<b>-</b>	<b>-</b>	<b>400,694</b>	<b>569,653</b>	<b>590,810</b>	<b>592,950</b>	<b>595,140</b>
<b>Sludge Disposal Recovery</b>	<b>(10,200)</b>	<b>(10,200)</b>	<b>(10,424)</b>	<b>-</b>	<b>-</b>	<b>(10,424)</b>	<b>(10,654)</b>	<b>(10,888)</b>	<b>(11,128)</b>	<b>(11,372)</b>
<b>TOTAL COSTS NET OF RECOVERIES</b>	<b>765,990</b>	<b>768,290</b>	<b>948,644</b>	<b>-</b>	<b>-</b>	<b>948,644</b>	<b>1,130,980</b>	<b>1,165,845</b>	<b>1,180,450</b>	<b>1,195,371</b>
<u>FUNDING SOURCES (REVENUE)</u>										
User Charges	(237,700)	(240,000)	(248,230)	-	-	(248,230)	(253,690)	(259,270)	(264,970)	(270,800)
Grants in Lieu	(720)	(720)	(10)	-	-	(10)	(10)	(10)	(10)	(10)
Other Revenue	(800)	(800)	(1,060)	-	-	(1,060)	(1,080)	(1,100)	(1,120)	(1,140)
<b>TOTAL REVENUE</b>	<b>(239,220)</b>	<b>(241,520)</b>	<b>(249,300)</b>	<b>-</b>	<b>-</b>	<b>(249,300)</b>	<b>(254,780)</b>	<b>(260,380)</b>	<b>(266,100)</b>	<b>(271,950)</b>
<b>REQUISITION- PARCEL TAX</b>	<b>(526,770)</b>	<b>(526,770)</b>	<b>(699,344)</b>	<b>-</b>	<b>-</b>	<b>(699,344)</b>	<b>(876,200)</b>	<b>(905,465)</b>	<b>(914,350)</b>	<b>(923,421)</b>



**Magic Lake Sewer Reserves  
Summary Schedule  
2020 - 2024 Financial Plan**

**Reserve/Fund Summary**

	<b>Estimated</b>	<b>Budget</b>				
	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Operating Reserve Fund	30,551	28,811	42,361	46,211	60,361	74,821
Capital Reserve Fund	188,678	268,678	350,438	433,998	519,398	606,678
<b>Total</b>	<b>219,229</b>	<b>297,489</b>	<b>392,799</b>	<b>480,209</b>	<b>579,759</b>	<b>681,499</b>

<b>Reserve Schedule</b>
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<b>Reserve Fund: 3.830 Magic Lake Estates Sewer (Pender) Capital Reserve Fund (Bylaw No.:1497)</b>
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<b>Reserve Cash Flow</b>
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**Fund: 1042 Fund Center: 101386**

	<b>Estimated</b>	<b>Budget</b>				
	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
<b>Beginning Balance</b>	172,061	188,678	268,678	350,438	433,998	519,398
<b>Transfer to Cap Fund (Based on Capital Plan)</b>	(35,000)	-	-	-	-	-
<b>Transfer from Cap Fund</b>	-	-	-	-	-	-
<b>Transfer from Operating Budget</b>	47,370	80,000	81,760	83,560	85,400	87,280
<b>Interest Income</b>	4,247					
<b>Ending Balance \$</b>	<b>188,678</b>	<b>268,678</b>	<b>350,438</b>	<b>433,998</b>	<b>519,398</b>	<b>606,678</b>

<b>Reserve Schedule</b>
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<b>Reserve Fund: 3.830 Magic Lake Estates Sewer (Pender) Operating Reserve Fund (Bylaw No. 4144)</b>
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Reserve fund used for: unforeseen operational repairs and maintenance; infrequent maintenance activities such as treatment facility tankage draining/cleaning/inspection etc. Optimum minimum balance of \$50,000 (approximately 10%) of the annual operating budget.
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<b>Reserve Cash Flow</b>
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Fund 1500 Fund Centre 105217	Estimated	Budget				
	2019	2020	2021	2022	2023	2024
<b>Beginning Balance</b>	26,515	30,551	28,811	42,361	46,211	60,361
<b>Transfer from Ops Budget</b>	13,260	13,260	13,550	13,850	14,150	14,460
<b>Interest Income</b>	776					
<b>Expenditures</b>	(10,000)	(15,000)	-	(10,000)	-	
Planned maintenance activity	Clean Cannon aeration ditch/clarifier	Clean Schooner aeration ditch		Outfall inspection		
<b>Ending Balance \$</b>	<b>30,551</b>	<b>28,811</b>	<b>42,361</b>	<b>46,211</b>	<b>60,361</b>	<b>74,821</b>

CAPITAL REGIONAL DISTRICT CAPITAL PLAN

CAPITAL BUDGET FORM  
2020 & Forecast 2021 to 2024

Service #: 3.830  
Service Name: Magic Lake Sewer Utility (Pender)

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

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

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

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

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

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

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

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

FIVE YEAR FINANCIAL PLAN

Proj. No.	Capital Exp.Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carry Forward from 2019	2020	2021	2022	2023	2024	5 - Year Total
20-01	Renewal	Wastewater Improvements - Phase I	1. Upgrade Schooner WWTP (add screen & grit removal, EQ tank, access road, electrical upgrades, genset) 2. Renew Buccaneer, Galleon and Schooner PS 3. Replace 4.6 km of failing AC pipe and rehab 84 manholes	\$6,000,000	S	Debt	\$0	\$5,000,000	\$1,000,000	\$0	\$0	\$0	\$6,000,000
24-01	Renewal	Wastewater Improvements - Phase II	1. Replace Cannon WWTP with a new pump station 2. Upgrade Schooner WWTP (2nd aeration tank, new clarifiers, electrical)	\$3,000,000	S	Debt	\$0	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000
29-01	Renewal	Wastewater Improvements - Phase III	1. Renew Capstan, Cutlass and Masthead Pump Stns 2. Replace 1.8 km of failing AC pipe and rehab 36 manholes 3. Upgrade Sludge Thickening at Schooner WWTP	\$3,150,000	S	Debt	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>GRAND TOTAL</b>				<b>\$12,150,000</b>			<b>\$0</b>	<b>\$5,000,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$9,000,000</b>

**Service:** 3.830      **Magic Lake Sewer Utility (Pender)**

<b>Proj. No.</b> 20-01	<b>Capital Project Title</b> Wastewater Improvements - Phase I	<b>Capital Project Description</b>
		1. Upgrade Schooner WWTP (add screen & grit removal, EQ tank, access road, electrical upgrades, genset) 2. Renew Buccaneer, Galleon and Schooner PS 3. Replace 4.6 km of failing AC pipe and rehab 84 manholes
<b>Asset Class</b> S S - Engineering Structure	<b>Board Priority Area</b> Environmental Protection	<b>Corporate Priority Area</b> Good
<b>Project Rationale</b> <i>Funding is required to carry out Phase I of wastewater improvements including: 1. Upgrade Schooner WWTP (add screen &amp; grit removal, EQ tank, access road, electrical upgrades, genset) 2. Renew Buccaneer, Galleon and Schooner PS 3. Replace 4.6 km of failing AC pipe and rehab 84 manholes</i>		

<b>Proj. No.</b> 24-01	<b>Capital Project Title</b> Wastewater Improvements - Phase II	<b>Capital Project Description</b>
		1. Replace Cannon WWTP with a new pump station 2. Upgrade Schooner WWTP (2nd aeration tank, new clarifiers, electrical)
<b>Asset Class</b> S S - Engineering Structure	<b>Board Priority Area</b> Environmental Protection	<b>Corporate Priority Area</b> Good
<b>Project Rationale</b> <i>Funding is required to carry out Phase II of wastewater improvements including: 1. Replace Cannon WWTP with a new pump station 2. Upgrade Schooner WWTP (2nd aeration tank, new clarifiers, electrical)</i>		

<b>Proj. No.</b> 24-01	<b>Capital Project Title</b> Wastewater Improvements - Phase II	<b>Capital Project Description</b>
		1. Renew Capstan, Cutlass and Masthead Pump Stns 2. Replace 3.3 km of failing AC pipe and rehab 68 manholes
<b>Asset Class</b> S S - Engineering Structure	<b>Board Priority Area</b> Environmental Protection	<b>Corporate Priority Area</b> Good
<b>Project Rationale</b> <i>Based upon the Inflow/Infiltration Reduction Program and recent primary investigations, funding the following infrastructure improvements is required: 1. Renew Capstan, Cutlass and Masthead Pump Stns 2. Replace 3.3 km of failing AC pipe and rehab 68 manholes</i>		

<b>Proj. No.</b> 29-01	<b>Capital Project Title</b> Wastewater Improvements - Phase III	<b>Capital Project Description</b>
		1. Renew Capstan, Cutlass and Masthead Pump Stns 2. Replace 1.8 km of failing AC pipe and rehab 36 manholes 3. Upgrade Sludge Thickening at Schooner WWTP
<b>Asset Class</b> S S - Engineering Structure	<b>Board Priority Area</b> Environmental Protection	<b>Corporate Priority Area</b> n/a
<b>Project Rationale</b> <i>Funding is required to carry out Phase III of wastewater improvements including: 1. Renew Capstan, Cutlass and Masthead Pump Stns 2. Replace 1.8 km of failing AC pipe and rehab 36 manholes 3. Upgrade Sludge Thickening at Schooner WWTP</i>		

<b>Magic Lake Sewer Utility (Pender)</b>
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**Capital Projects Fund**

Year/Project#	Status	Capital Project Description	Total Budget	Expenditure Actuals	Remaining Funds	Funding Source-CRF*	Funding Source-CWF**	Funding Source-ORF***	Funding Source-Debt****	Return Surplus to CRF*	Return Surplus to CWF**
2016/CE.536	OPEN	Replace Sewer Pipe	812,558	780,638	31,920	127,558	-	-	685,000	-	-
2017/CE.573	OPEN	Wastewater upgrade phase 2; public consultation	25,000	23,429	1,571	25,000	-	-	-	-	-
		<b>Totals</b>	<b>837,558</b>	<b>804,067</b>	<b>33,491</b>	<b>152,558</b>	-	-	<b>685,000</b>	-	-

\* CRF (Capital Reserve Fund)

\*\* CWF (Community Works Fund)

\*\*\* ORF (Operating Reserve Fund)

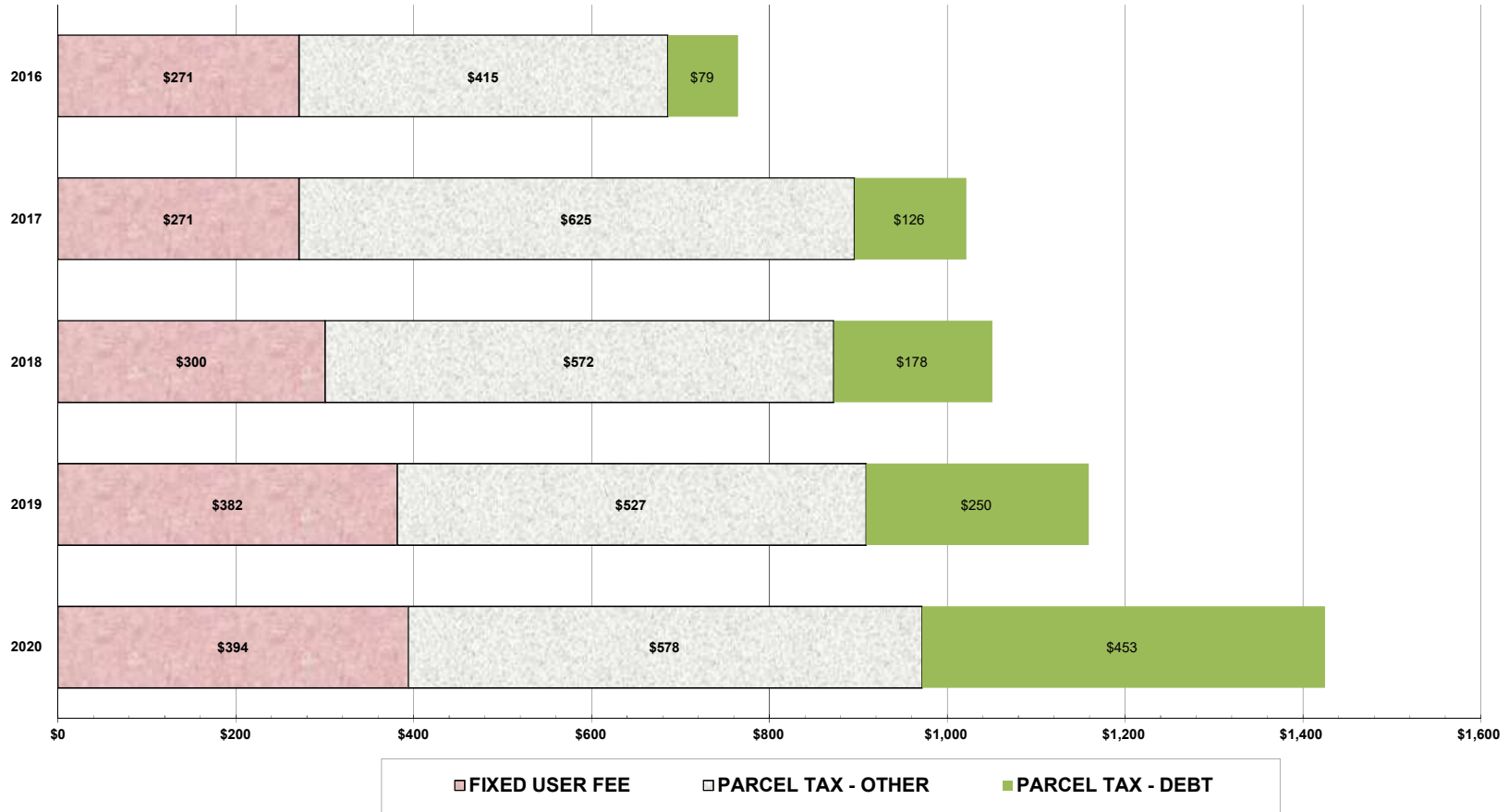
\*\*\* Debt (MFA Debt)

Service: **3.830 Magic Lake Sewer Utility (Pender)**

Committee: Electoral Area Service

<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>
2010	714	\$401.28	616	\$252.00	\$653.28		229,283
2011	714	\$401.27	617	\$272.00	\$673.27	3778	242,173
2012	714	\$414.76	617	\$272.00	\$686.76	3823	238,971
2013	714	\$414.76	621	\$272.00	\$686.76	3892	217,896
2014	714	\$414.76	620	\$272.00	\$686.76	3924	205,430
2015	714	\$414.76	621	\$272.00	\$686.76	3987	199,869
2016	714	\$493.70	623	\$271.12	\$764.83	4074	200,262
2017	713	\$750.36	623	\$271.12	\$1,021.48	4170	217,265
2018	713	\$750.37	623	\$300.40	\$1,050.77	4233	248,834
2019	713	\$777.60	623	\$381.54	\$1,159.14	4274	287,283
2020	714	\$1,030.90	630	\$394.02	\$1,424.91		

### CAPITAL REGIONAL DISTRICT MAGIC LAKE ESTATES SEWER FUNDING ANALYSIS 2016-2020



Actual Costs 2016-2018, Projected 2019/2020  
Prepared by CRD Finance