



Finance and Administration

A

Village of Bloomingdale

Finance Department

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MEMORANDUM

Date: April 2, 2019

To: Pietro Scalera, Village Administrator

From: Gary L. Szott, Finance Director/Treasurer 

Subject: Water & Sewer Fund Proposed FY20 Budget and 5-Year Forecast

Annually and coincident with the annual budget process and in cooperation with the Director of Public Works, the Water & Sewer Fund's (the "Fund") 5-Year Forecast (the "Forecast") is updated for the purpose of assessing the Fund's financial position and ability to sustain operations, service levels and finance anticipated capital improvement projects. The Forecast, and its format, provides the structure to measure the Fund's fiscal objectives of:

1. Operate with a net income from operations of \$200,000, before depreciation,
2. Maintain an operating reserve (i.e. – working capital) equal to 25% of Total Operating Expenses,
3. Maintain a 1:1 ratio of functional rates to functional operating expenses, and
4. Follow a "Cash" financing approach for capital projects.

Ultimately, the Forecast can provide a financial framework from which collaborative discussion amongst elected officials, Village staff and the public can revolve. This could then provide guidance and direction to develop and refine strategic plans - both operating and capital - to ensure adherence to the Village's Vision and Mission, financial strength and viability, and avoidance of unwelcome financial situations.

The Government Finance Officers Association (GFOA) recommends to regularly engage in long-term financial planning that encompass key elements. These elements are listed below and are incorporated into the Forecast to varying degrees.

- A. Time Horizon** – A plan should look at least five to ten years into the future.
- B. Scope** – A plan should consider all appropriated funds, in this case the Water & Sewer Fund.
- C. Frequency** – A plan should be updated as needed in order to provide direction to the budget process.
- D. Content** – A plan should include an analysis of the financial environment,

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revenue and expenditure forecast, debt position and other key points.

- E. Visibility** – The public and elected officials should be able to easily learn about the long-term financial prospects of the government, in this case the Water & Sewer Fund, and strategies for financial balance.

The Forecast is meant to provide guidance in prioritizing and aligning service objectives and capital outlays with financial resources, but it is not a final plan. It is a framework from which further discussions can evolve to better assure that desired service levels are attained, capital projects are planned and completed, and financial position remains strong. The Forecast has been developed using the data available, an awareness of the current economy, and assumptions that are based on the knowledge and instincts of staff as well as historical trends specific to the Village's water & sewer operations. No obligation or commitment is established by the Forecast and continuous adjustments and improvements are considered a normal part of the "process."

To arrive at the results of this Forecast the following data, assumptions and methodologies were used.

1. The FY15 through FY18 amounts reflect actual, audited amounts. The FY19 and FY20 amounts represent the amounts that are in the proposed FY20 Budget.
2. The FY21 through FY24 Forecast amounts represent projections made by staff based upon trend history, and other knowledge, vision or cautious perspective of what is occurring now or what may be reasonably expected to occur based upon reliable information.
3. Operating revenue, comprised primarily of rate revenue, is forecasted using the current water and sewer rates applied to the five year historical average annual gallons of water sold to customers. No changes have been assumed with respect to the volume of water sold or the number of system customers. See #4 below for discussion on rate change assumptions.
4. Operating expenses, excluding water costs, are projected by using the proposed FY20 budget as the "base" year and then adding an average annual increase of 1.58% which is the Fund's five year expense trend history. Last year, the Fund's expenses were increasing at an average annual rate of 1.49%. Actual expense activity, specific categories or line items may vary.
5. The FY20 water costs, or the cost of water that the Village is charged by the DuPage Water Commission (DWC), reflects a 3%, or a 15¢/1,000 gallons of water purchased, increase effective May 1, 2019. This translates to a cost of \$5.09/1,000 gallons of water purchased. The FY19 water costs were \$4.94/1,000 gallons of water purchased.

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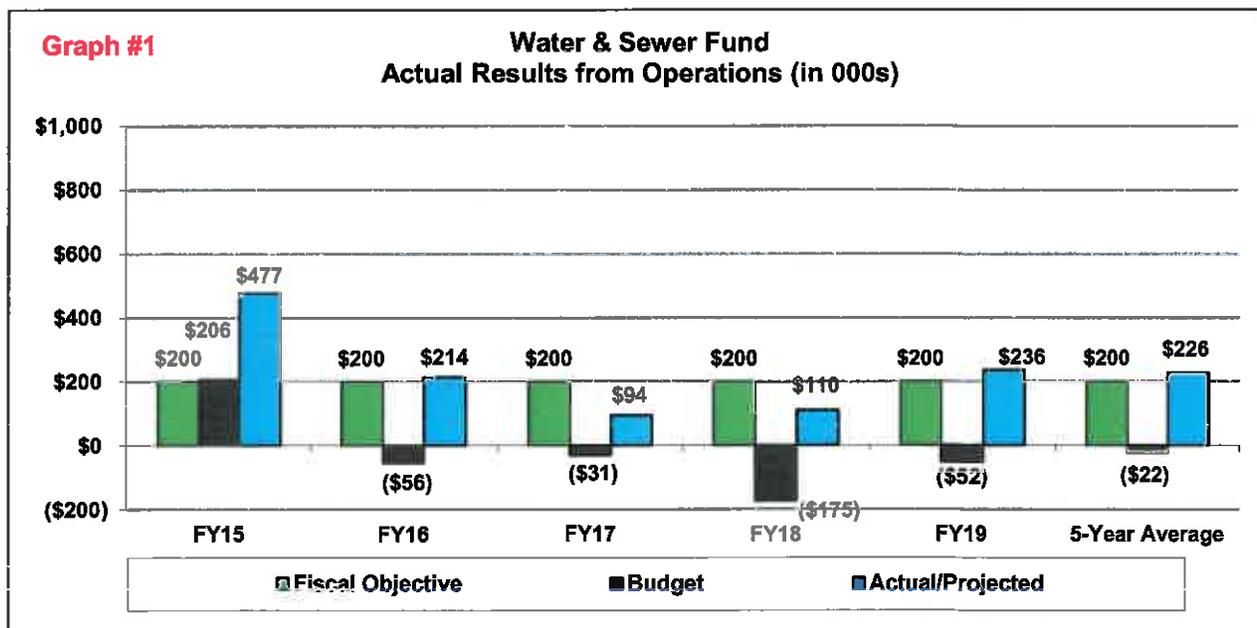
Water & Sewer Fund Proposed FY20 Budget and 5-Year Forecast

*** Subsequent to the compilation and release of the proposed FY20 Budget, the DWC's FY20 tentative budget was received. It included a 3¢, or a less than 1%, increase in the cost of water - from \$4.94 to \$4.97 per 1,000 gallons of water purchased. The DWC is anticipating this increase from the City of Chicago and it is based on the change in the CPI for the period December 2017 to December 2018.*

- The water rates charged to Village utility customers' adjust annually in correlation with the increases imposed by the City of Chicago/DWC through FY24. The FY21 through FY24 Forecast includes annual water cost increases of 2% each year through FY24.

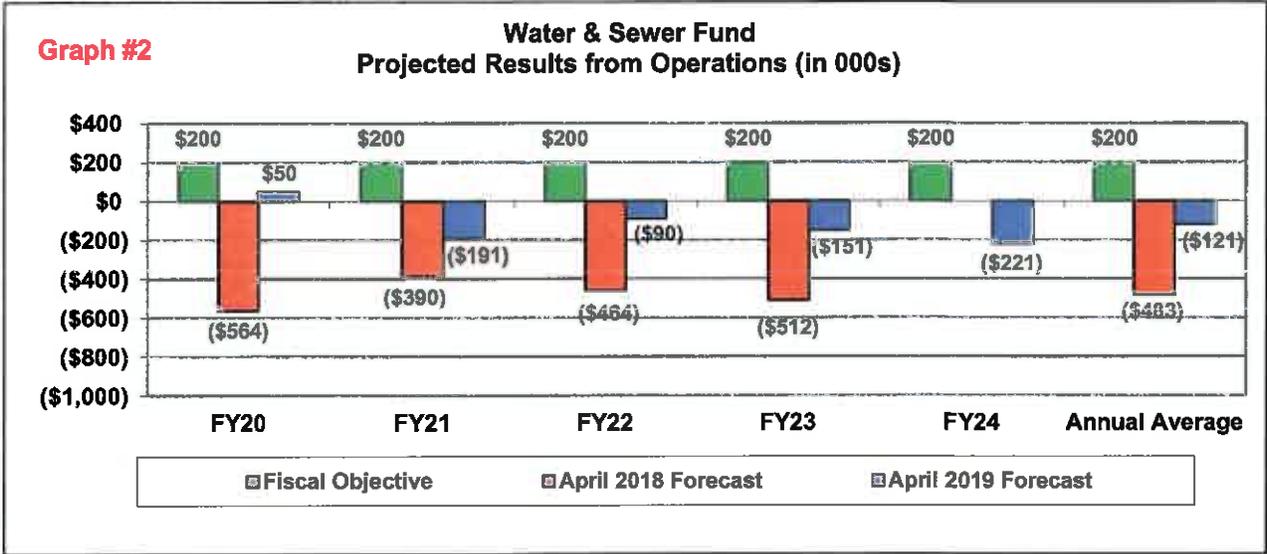
Fiscal Objective #1 – Operate with a Net Income from Operations of \$200,000, before Depreciation -

Over the past five fiscal years (FY15 through FY19), the Fund will have attained an average annual operating income, before depreciation, of \$226,000. During this same time period, the Fund also performed well when measured against the average annual budgeted income from operations, before depreciation, which was approximately (\$22,000). Graph #1 below provides an illustration of this performance.



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The proposed FY20 Budget reflects the Fund to operate with a net income, before depreciation, of \$49,510. Further, for fiscal years FY21 through FY24, the Fund is forecasted to attain an average annual operating loss, before depreciation, of \$163,000. Therefore, over the next five fiscal years (FY20 through FY24), the Fund is projected to generate an average annual loss from operations, before depreciation, of \$121,000. A year ago, the Fund was projected to generate an average annual loss from operations, before depreciation, of approximately \$483,000 over the fiscal years FY20 through FY23. Graph #2 below illustrates this and includes a comparison to the March 2018 forecast, for perspective. The improved forecasted performance is primarily attributable to reallocating rate revenue from certain capital purposes to operations. This will be discussed in more detail later in this correspondence.



While the Fund's forecasted performance is reflected to improve when compared to the prior year's Forecast due to the reallocation of certain revenues, the Fund is not expected to achieve its fiscal objective in any year over the next five years. To position the Fund to be able to more likely achieve its fiscal objective, consideration should be given to a water and sewer rate increase. This increase would be in addition to the water rate increase that is necessary to maintain a correlation with the City of Chicago/DWC water cost rate increases. Based on the amount of water consumed and billable to customers, increases of 31¢, or 4%, for the water rate and 17¢, or 4%, for the sewer rate should be considered. These increases are estimated to provide an additional \$321,000 of revenue each year to the Fund. Implementation could occur as a one-time event or phased-in over a period of time. The last time water or sewer rates were increased for other than City of Chicago/DWC reasons was June 2012; nearly seven years ago.

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Fiscal Objective #2 – Maintain an Operating Reserve Equal to 25% -

A targeted operating reserve or working capital amount equal to 25% of Total Operating Expenses (3 months or 90 days of operating expenses) has been established to provide for the delivery of ongoing services, short-term cash flow disparities, unbudgeted and unexpected system repairs or equipment replacements and other unforeseen events.

Operating reserves or working capital is not intended to and does not provide “permanent” funding for operating expenses or capital projects. The purpose of operating reserves is to allow for the day-to-day activities of the Fund to continue in an orderly manner without regard to the ebbs and flows of the receipt of revenues and the payment of operating expenses.

Maintaining a 25% operating reserve or working capital balance is a reasonable and responsible level given the characteristics of the Water & Sewer Fund. Supporting this objective is the GFOA’s position that 90 days is a “baseline” level of working capital for an Enterprise Fund, which the Water & Sewer Fund is. GFOA recommends that, under no conditions, the target for working capital be less than 45 days of annual operating expenses.

In March 2018, it was projected that the Fund would end FY18 with operating reserves of 90 days or 25% and it did. Additionally, the Fund is projected to achieve a 90 day or 25% operating reserve in FY19. Thereafter, and for all practical purposes, the Fund will achieve this target through FY24.

Fiscal Objective #3 – Maintain a 1:1 Ratio of Rates to Expenses -

The Fund strives to achieve a 1:1 ratio or allocation of water rate revenues to water function operating expenses and sewer rate revenues to sewer function operating expenses.

Over the past five fiscal years (FY15 through FY19) water rate revenue has exceeded water function expenses by an annual average of approximately \$241,000 and sewer rate revenue has been less than sewer function expenses by an annual average of approximately \$15,000.

Over the next five fiscal years (FY20 through FY24), it is projected that water rate revenue will be less than water function expenses by an annual average of approximately \$92,000 and sewer rate revenue will be less than sewer function expenses by an annual average of approximately \$29,000.

This fiscal objective has generally been achieved over the past five years and it is expected to be generally achieved over the next five years.

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Fiscal Objective #4 – Follow a “Cash” Financing Approach for Capital Projects -

Historically, the Village has funded its capital projects on a “pay-as-you-go”, or cash, basis. This has been accomplished, with a few exceptions, as the Fund has had sufficient “excess” cash from certain revenue sources that have been designated, or committed, toward capital projects. The exceptions that have occurred involved capital projects of significant cost. In these instances, debt financing occurred to construct the project and then certain revenue sources were identified and designated or committed toward repaying the debt.

A summary listing of the Fund’s 100 individual proposed capital projects is attached. It reflects all of the projects that are contained in the proposed FY20 Capital Improvement Plan (CIP). For analysis purposes, the individual projects have been grouped into six “projects” or categories. The groups or projects have been color coded in an effort to ease referencing from this correspondence to the list. The following provides a brief description of each of these six groups/projects and a suggested approach to pay for the project(s).

1. **Major Maintenance Projects (i.e. – operating costs)** – this group consists of individual projects that are each significant in amount (> \$20,000) so as to meet the definition of, and be included in, the CIP; however, the individual projects do not meet the financial reporting (i.e. – GAAP) definition of a capital outlay or project. The purpose for including them in the CIP is primarily for long-term planning. The characteristics of these “projects” define them as an operating cost for financial reporting purposes. As such, for this Forecast, these projects are considered as part of the operations analysis in Fiscal Objective #1; not the capital, “cash” financing analysis. These projects are funded with water and sewer rate revenue.

2. **WRF FPA Phase 2B Grit Screening Removal Facility & Filter Upgrade** – this group consists of the WRF’s Phase 2B project involving the upgrade of the grit screening and removal facility and disc filters. The project began in FY19 with engineering design and construction is tentatively scheduled to begin in FY20. The project will enable efficient and effective removal of non-biodegradable grit and debris, as well as, upgrading an antiquated bridge filter system. Funding for this \$9.62 million project is anticipated to come from an IL EPA loan. Annual debt service payments to repay the loan are estimated to be \$569,000 and begin in FY22. To provide the monies to repay the loan, an annual allocation of home rule sales tax will be used. For perspective, to generate sufficient revenue to repay the loan from sewer rates, an approximate 85¢ per 1,000 gallon, or 20%, sewer rate increase would be needed beginning in FY21.

3. **Non-WRF FPA Related Capital Projects** – this group consists of capital projects that are not directly related to the WRF’s facility plan amendment (FPA). Prior to FY19, a number of revenue sources were committed to pay for these projects. They were:

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1. 23¢ of the total \$8.08 residential/\$9.04 non-residential water rate
2. 5¢ of the total \$4.46 sewer rate
3. Water tap-on fees
4. Sewer tap-on fees (beginning in FY19)
5. Gain on sale of assets and Other revenues

In FY19, after a series of presentations to, and acceptance by, the Village Board, the 23¢ water rate allocation (#1 above) and the 5¢ sewer rate allocation (# 2 above) were “redirected” and allocated to support operating expenses. The revenues are no longer supporting capital needs. In compiling the proposed FY20 budget, and this Forecast, this redirection or allocation was continued each year through FY24 and would be expected to be needed and continued each year thereafter.

The remaining dedicated revenue sources are projected to generate an approximate annual average of \$360,000 during the period FY20 through FY24. This includes tap on fees related to new residential development occurring, or expected to occur, at a reasonable absorption rate. The Building & Zoning Department’s residential development activity summary contained in the proposed FY20 Budget narrative was used as guidance to develop the tap on fee projections. Additionally, tap on fees expected to be received from Woodman’s Market have been considered and reflected in FY21.

The capital projects associated with this group are estimated to cost, on average, \$531,000 each year during the period FY20 through FY24. As such, there is a projected average annual shortfall of \$171,000. This significant shortfall can be identified and traced to two projects - the maintenance of the Winston Water Tower (\$350,000) in FY21 and the replacement of the Vactor truck (\$460,000) in FY23. In order to fund the projects in this group, it is suggested that when the Winston Tower maintenance and the Vactor truck replacement projects become part of the annual budget that they be funded with an allocation of home rule sales tax. If this financing approach is followed, the aforementioned \$171,000 projected average annual shortfall becomes a manageable \$9,000 average annual shortfall. For perspective, absent the home rule sales tax allocation, an approximate combined 26¢, or 2%, rate increase (17¢ for water and 9¢ for sewer) would be needed in FY20, to generate \$171,000 each year.

Staff will also continue to review, and revise if appropriate, the scheduling or timing of the capital projects. This may assist in more evenly matching capital revenues with capital expenses. Additionally, the recent increase in economic development or redevelopment activity that is occurring or expected to occur within the Village may provide additional revenues that are not reflected in this Forecast.

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4. **Water Meter Replacement & Upgrade** –  this group consists of a project to replace and upgrade all of the water meters together with enhancements as to how, and how often, meter readings are, or can be, obtained. The existing water meters and meter reading equipment was installed in approximately 2003 and are being phased-out, or made obsolete, by the manufacturer. The first component of the project is included in the proposed FY20 budget and involves the installation of two antennas and a regional network interface system (see page 119 of the proposed FY20 Budget). The replacement of the water meters for more than 9,000 customer accounts would occur after the first component is complete. Funding for the approximate \$3.00 million costs of the new water meters is anticipated to come from a short-term (5 year) bank loan. Annual debt service payments to repay the loan are estimated to be \$659,000 and begin in FY24. To provide the monies to repay the loan, an annual allocation of home rule sales tax will be used. For perspective, to generate sufficient revenue to repay the loan from water and sewer rates, an approximate \$1.00 per 1,000 gallon, or 8%, water (64¢) and sewer (36¢) rate increase would be needed beginning in FY23 and ending in FY28.

5. **Depreciation** –  this group consists of the annual depreciation, or systematic and rationale use or consumption of the water and sewer system's infrastructure, most notably the water and sewer mains (the "system"). This project recognizes and represents the gradual use and deterioration of the "system" (i.e. - water and sewer mains). Depreciation is a method or systematic and rationale means to recognize the wear and tear of an asset because of its use by current customers augmented by the lapse of time, eventually resulting in the expiration of the service life of that asset. Over time and as the existing system ages it will eventually need to be replaced and the cost of replacement or rehabilitation, for even a small component or length, can be significant. The annual cost or depreciation is estimated to be \$820,000. No revenue sources have been identified and committed to this project and no monies have been accumulated. For perspective, to generate sufficient revenue through water and sewer rates, an approximate \$1.26 per 1,000 gallon, or 10%, water (67¢) and sewer (59¢) rate increase would be needed, beginning in FY20, to generate sufficient annual revenues to offset the depreciation.

6. **WRF FPA Phosphorus Compliance** –  this group consists of a project to construct \$5.53 million of improvements necessary to comply with EPA standards. Funding for the project is anticipated to come from an IL EPA loan. Annual debt service payments to repay the loan are estimated to be \$369,000 and begin in FY25. To provide the monies to repay the loan, an annual allocation of home rule sales tax will be used. For perspective, to generate sufficient revenue to repay the loan from sewer rates, an approximate 57¢ per 1,000 gallon, or 13%, sewer rate increase would be needed beginning in FY24.

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In addition to the construction component of the project, additional operating costs are estimated to be in excess of \$300,000 annually. To generate sufficient revenue through sewer rates to support the additional operating costs, an approximate 47¢, or 11%, sewer rate increase would be needed in approximately FY25; however, at this time, it is difficult to project to any certainty the amount and timing of the costs and hence the sewer rate increase. As the scope of the project becomes better defined, further analysis of the required rate increases will be made.

Continuing a “cash” financing approach for project #1 has been achieved as this group of projects is part of operating expenses and the analysis of fiscal objective #1. With respect to project #3, “cash” financing is attainable provided the suggested reallocation of certain rate revenue and the contributions of home rule sales tax is approved. Project #s 2 and 4 will require debt financing with an annual allocation of home rule sales tax to pay the annual debt service payments. This approach will avoid increases to water and/or sewer rates. Project #s 5 and 6 require further discussion and direction.

Summary –

The following table provides a summary of the various and multiple suggestions and recommendations contained herein.

	Purpose/Project	Increase			Effective	
		Rate	\$	%	Date	FY
1	City of Chicago/DWC water cost increases	water	~11¢	~2%	6/1/xx	annually
2	Generate income from operations of \$200,000, before depreciation	Make permanent the allocation to operations of 23¢ that was formerly allocated to capital projects				
		water	31¢	4%	6/1/19	FY20
		sewer	17¢	4%	6/1/19	FY20
3	WRF FPA Phase 2B Grit Screening/Removal Facility & Filter Upgrade (CIP Project #2)	Annually allocate \$569,000 of home rule sales tax beginning in FY21 and ending in approximately FY41				
4	Non-WRF FPA Related Capital Projects (CIP Project #3)	Make permanent the allocation to operations of 23¢ that was formerly allocated to capital projects. Further, allocate home rule sales tax for the Winston Water Tower maintenance (FY21) and the Vactor truck replacement (FY23)				
5	Water Meter Replacement & Upgrade (CIP Project #4)	Annually allocate \$659,000 of home rule sales tax beginning in FY24 and ending in approximately FY29				

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	Purpose/Project	Increase			Effective	
		Rate	\$	%	Date	FY
6	Depreciation (CIP Project #5)	No action at this time; further discussion required				
7	WRF FPA Phosphorus Compliance – (CIP Project #6) – construction component only	No action at this time; further discussion required				

* - the percentage and dollar increases are based upon current rates and are per 1,000 gallons billed

The purpose of this Forecast is to assess the Fund’s financial position through the measurement of how it has performed, and how it is projected to perform, against its multiple fiscal objectives. The conclusions reached, as they related to the objectives, are summarized as follows:

1. The Fund achieved the fiscal objective of **generating income, before depreciation, of \$200,000**, on an average annual basis, over the past five fiscal years (FY15 through FY19); however, it is not projected to achieve the objective over the next five fiscal years (FY20 through FY24).
2. The Fund has maintained, or will be able to maintain for all practical purposes, **operating reserves (i.e. - working capital)** equal to 25% of Total Operating Expenses through FY24.
3. The Fund generally achieved a **revenue to expense ratio**, by function, of 1:1 for the past five fiscal years (FY15 through FY19) and it is projected the Fund will generally achieve the objective over the next five fiscal years (FY20 through FY24).
4. The Fund has been able to maintain a “**cash**” **financing** approach for capital expenses, with some exception, over the past five fiscal years (FY15 through FY19). It is projected that the Fund will be able to continue to maintain this financing approach over the next five fiscal years (FY20 through FY24) for certain projects provided certain actions are taken. Further, other projects will require debt financing. The repayment of the debt will occur provided certain revenue sources are allocated.

Recommendation: It is respectfully recommended the Village Board:

1. Review the Water & Sewer Fund 5-Year Forecast to gain an understanding of the current and future financial position of the Fund and the projected, potential impact to water and sewer rates.
2. Approve a water rate increase that is correlated with any increase in costs imposed on the Village by the City of Chicago/DuPage Water Commission.

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3. Approve a water rate and a sewer rate increase that will enhance the ability of the Fund to achieve its fiscal objectives of generating a net income of \$200,000, before depreciation and maintaining an operating reserve equal to 25% of operating expenses. To accomplish this, a water rate increase of 30¢ and a sewer rate increase of 17¢ would be necessary. Implementation could occur as a one-time event or phased-in over a period of time.

VILLAGE OF BLOOMINGDALE
WATER & SEWER FUND 5-YEAR FORECAST
SUMMARY OF OPERATING REVENUES AND EXPENSES

04/02/19

	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	
	(audited)	(budget)	(EOY)	(budget)	(forecast)	(forecast)	(forecast)	(forecast)	
	FY	FY	FY	FY	FY	FY	FY	FY	SOURCE, COMMENTS
OPERATING REVENUES	04/30/18	04/30/19	04/30/20	04/30/21	04/30/22	04/30/23	04/30/24		or ASSUMPTIONS
1 Water/Sewer Rate Revenue	8,333,102	8,416,200	8,199,585	8,383,750	8,424,100	8,539,100	8,656,400	8,776,000	5-year ave gallons billed & annual 2% water rate incre
2 Late Fees, Meter Fees, etc.	164,575	172,550	170,775	174,100	172,900	172,900	172,900	172,900	5-year average
3 Interest Income	77,992	120,000	120,335	125,000	179,000	160,000	142,000	112,000	2.50% Yield assumption FY21-FY24
4 Miscellaneous	47,997	35,810	66,720	79,780	21,600	23,600	21,600	21,600	IRMA surplus
5 TOTAL OPERATING REVENUES	8,623,666	8,744,560	8,557,415	8,762,630	8,797,600	8,895,600	8,992,900	9,082,500	
OPERATING EXPENSES									
6 Finance	278,559	284,185	267,820	275,990	280,400	284,800	289,300	293,900	5-year average change = 1.58%; applied to FY21-FY2
7 Source of Supply	799,996	847,295	811,835	774,130	786,400	798,800	811,400	824,200	5-year average change = 1.58%; applied to FY21-FY2
8 DWC O&M Costs	3,565,943	3,715,080	3,458,665	3,736,060	3,810,800	3,887,000	3,964,700	4,044,000	5 Yr Ave gals purch & annual 2% CPI increases
9 Distribution System	1,206,599	1,211,780	1,155,750	1,300,940	1,297,200	1,311,800	1,332,500	1,353,600	5-year average change = 1.58%; applied to FY21-FY2
10 Sanitary Collection System	787,429	844,250	799,360	745,065	806,800	768,800	781,000	793,400	5-year average change = 1.58%; applied to FY21-FY2
11 Water Reclamation Facility	1,875,353	1,893,660	1,828,225	1,880,935	2,012,700	1,940,900	1,971,600	2,002,800	5-year average change = 1.58%; applied to FY21-FY2
12 TOTAL OPERATING EXPENSES	8,513,879	8,796,250	8,321,655	8,713,120	8,994,300	8,992,100	9,150,500	9,311,900	
OPERATING NET INCOME (LOSS)									
13 BEFORE DEPRECIATION	109,787	(51,690)	235,760	49,510	(196,700)	(96,500)	(157,600)	(229,400)	FISCAL OBJECTIVE Generate income of \$200,000
14 Depreciation Expense	1,730,756	0	1,681,000	1,685,000	1,685,000	1,685,000	1,685,000	1,685,000	
15 OPERATING NET INCOME (LOSS)	(1,620,969)	(51,690)	(1,445,240)	(1,635,490)	(1,881,700)	(1,781,500)	(1,842,600)	(1,914,400)	

Village of Bloomingdale
 Water Sewer Fund
 Summary List of CIP Projects

Fund		FY20 Budget	FY21 Projected	FY22 Projected	FY23 Projected	FY24 Projected	Total
	Memo # SUMMARY						
Water & Sewer	1 Major Maintenance Projects (i.e. - operating costs)	\$323,580	\$432,595	\$277,420	\$309,285	\$281,210	\$1,624,090
Water & Sewer	2 WRF Grit-Screening Removal Facility	\$2,138,150	\$6,798,800	\$0	\$0	\$0	\$8,936,950
Water & Sewer	3 Non-WRF FPA Capital Projects	\$177,500	\$918,655	\$505,900	\$830,980	\$118,400	\$2,551,435
Water & Sewer	4 Water Meter Replacement & Upgrade	\$105,500	\$0	\$0	\$3,000,000	\$0	\$3,105,500
Water & Sewer	5 Depreciation	\$0	\$819,900	\$819,900	\$819,900	\$819,900	\$3,279,600
Water & Sewer	6 WRF FPA Phosphorus Compliance	\$0	\$0	\$0	\$485,000	\$5,040,000	\$5,525,000
	Sub-total - Capital Projects	\$2,421,150	\$8,537,355	\$1,325,800	\$5,135,880	\$5,978,300	\$23,398,485
	Total Projects - Water & Sewer	\$2,744,730	\$8,969,950	\$1,603,220	\$5,445,165	\$6,259,510	\$25,022,575

Project - Title							
Water & Sewer	474 WRF Grit-Screening Removal Facility	\$2,138,150	\$6,798,800	\$0	\$0	\$0	\$8,936,950
Water & Sewer	534 North Circle Avenue Water and Sewer Extension	\$160,000	\$0	\$0	\$0	\$0	\$160,000
Water & Sewer	492 Fixed-Point AMR System	\$105,500	\$0	\$0	\$3,000,000	\$0	\$3,105,500
Water & Sewer	517 Water System Hydraulic Model Analysis Update	\$81,000	\$0	\$0	\$0	\$0	\$81,000
Water & Sewer	348 Water Quality Improvement Assessment (DRSCW)	\$58,830	\$62,420	\$62,420	\$64,285	\$66,210	\$312,347
Water & Sewer	238 Fire Hydrant Replacement Program	\$45,000	\$45,000	\$100,000	\$100,000	\$100,000	\$390,000
Water & Sewer	237 Main Line Water Valve Replacement Program	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000
Water & Sewer	285 Sanitary Sewer Wye & Manhole Sealing	\$40,000	\$30,000	\$30,000	\$30,000	\$40,000	\$200,000
Water & Sewer	349 Sanitary Wye Replacement & Point Repair Program	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000
Water & Sewer	539 Sealcoat Water & Sewer Utilities Driveways & Parking Lots	\$15,650	\$0	\$0	\$0	\$0	\$15,650
Water & Sewer	541 Wireless Headset Communication System	\$9,000	\$0	\$0	\$0	\$0	\$9,000
Water & Sewer	513 Pneumatic Trench Shoring System	\$8,500	\$0	\$0	\$0	\$0	\$8,500
Water & Sewer	1 Winston Water Tower Maintenance	\$6,100	\$330,000	\$0	\$0	\$0	\$336,100
Water & Sewer	63 Water Main Major Maintenance Improvements	\$0	\$434,900	\$434,900	\$434,900	\$434,900	\$1,739,600
Water & Sewer	72 Sanitary Sewer Main Major Maintenance Improvements	\$0	\$385,000	\$385,000	\$385,000	\$385,000	\$1,540,000
Water & Sewer	68 North Circle Ave Lift Station	\$0	\$150,000	\$0	\$0	\$0	\$150,000
Water & Sewer	524 Facility Plan Amendment (FPA) Update	\$0	\$102,000	\$0	\$0	\$0	\$102,000
Water & Sewer	310 2003 Ford F450 Dump Truck Vehicle #703	\$0	\$86,575	\$0	\$0	\$0	\$86,575
Water & Sewer	191 SCADA Replacement/Upgrade	\$0	\$75,000	\$0	\$0	\$0	\$75,000
Water & Sewer	518 Water System Condition and Reliability Study	\$0	\$80,000	\$0	\$0	\$0	\$80,000
Water & Sewer	77 WRF - New & Replacement Equipment	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Water & Sewer	531 Sanitary Sewer Lining Program - Various Locations	\$0	\$50,000	\$0	\$0	\$0	\$50,000
Water & Sewer	510 Eastside Ground Storage Tank Sump Pump Replacement	\$0	\$45,000	\$0	\$0	\$0	\$45,000
Water & Sewer	358 Kubota 4WD Tractor #B2106	\$0	\$33,680	\$0	\$0	\$0	\$33,680
Water & Sewer	377 WRF (6) DWF Sewage Pumps	\$0	\$30,000	\$0	\$0	\$0	\$30,000
Water & Sewer	69 Lawrence Ave Lift Station	\$0	\$25,000	\$0	\$0	\$0	\$25,000

Village of Bloomingdale
Water Sewer Fund
Summary List of CIP Projects

Fund		FY20 Budget	FY21 Projected	FY22 Projected	FY23 Projected	FY24 Projected	Total
Water & Sewer	73 Sanitary Collection - New & Replacement Equipment	\$0	\$23,400	\$23,400	\$23,400	\$23,400	\$93,600
Water & Sewer	192 Main Control Building "C" Roof	\$0	\$20,000	\$0	\$0	\$0	\$20,000
Water & Sewer	477 Mini Message Board #2	\$0	\$15,000	\$0	\$0	\$0	\$15,000
Water & Sewer	190 Valve Actuators Controller Upgrades	\$0	\$10,000	\$10,000	\$0	\$0	\$20,000
Water & Sewer	373 WRF Digital Process Control Computers	\$0	\$5,000	\$0	\$0	\$0	\$5,000
Water & Sewer	514 2 1/2 Ton Dump Truck	\$0	\$0	\$180,000	\$0	\$0	\$180,000
Water & Sewer	316 2008 International Flat Bed #108	\$0	\$0	\$119,000	\$0	\$0	\$119,000
Water & Sewer	296 Ford F250 pick up Vehicle # 208	\$0	\$0	\$50,000	\$0	\$0	\$50,000
Water & Sewer	369 WRF Post Aeration System - Submersible Aspirating Aerator	\$0	\$0	\$20,000	\$0	\$0	\$20,000
Water & Sewer	463 Bulk Water Dispensing System at Public Works	\$0	\$0	\$15,500	\$0	\$0	\$15,500
Water & Sewer	189 Skylights - Various Buildings	\$0	\$0	\$15,000	\$0	\$0	\$15,000
Water & Sewer	198 WRF 4X4 Utility Vehicle	\$0	\$0	\$15,000	\$0	\$0	\$15,000
Water & Sewer	429 Cardinal Water Tower Maintenance	\$0	\$0	\$8,000	\$0	\$0	\$8,000
Water & Sewer	74 WRF Phosphorus Compliance	\$0	\$0	\$0	\$485,000	\$5,040,000	\$5,525,000
Water & Sewer	329 2009 International 7400 Truck w/ Vactor 2112 #109	\$0	\$0	\$0	\$460,000	\$0	\$460,000
Water & Sewer	356 Mini Excavator - CAT305	\$0	\$0	\$0	\$96,380	\$0	\$96,380
Water & Sewer	56 MPI - Bloomingdale Rd (Loop)	\$0	\$0	\$0	\$52,000	\$0	\$52,000
Water & Sewer	70 Eastgate Lift Station	\$0	\$0	\$0	\$25,000	\$0	\$25,000
Water & Sewer	71 Springfield Dr Lift Station	\$0	\$0	\$0	\$25,000	\$0	\$25,000
Water & Sewer	361 Trailer (Rolls Rite- 25KP25HD-LP) #T408	\$0	\$0	\$0	\$25,000	\$0	\$25,000
Water & Sewer	57 MPI - Schick, Cardinal, Villa (Loop)	\$0	\$0	\$0	\$23,000	\$0	\$23,000
Water & Sewer	294 Chlorination System Upgrade	\$0	\$0	\$0	\$20,000	\$0	\$20,000
Water & Sewer	374 WRF Biosolids Sludge Pump CDQ DAA (East)	\$0	\$0	\$0	\$15,000	\$0	\$15,000
Water & Sewer	375 WRF Biosolids Sludge Pump CDQ DAA (West)	\$0	\$0	\$0	\$15,000	\$0	\$15,000
Water & Sewer	259 GPS Units for WS Utility Vehicles	\$0	\$0	\$0	\$12,000	\$0	\$12,000
Water & Sewer	354 Handheld Meter Readers (2)	\$0	\$0	\$0	\$12,000	\$0	\$12,000
Water & Sewer	150 Chemical Vacuum Induction Pump	\$0	\$0	\$0	\$7,200	\$0	\$7,200
Water & Sewer	53 MPI - Lake and Fairfield	\$0	\$0	\$0	\$0	\$40,000	\$40,000
Water & Sewer	197 Laboratory Incubator	\$0	\$0	\$0	\$0	\$5,000	\$5,000
Water & Sewer	3 Water Storage	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	5 MPI - Glenwood between Gary Ave & Schick Rd	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	52 MPI - East Army Trail Rd (loop)	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	54 MPI - Cavalry Drive Area	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	55 MPI - Medinah Rd (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	60 MPI - N Bloomingdale Rd (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	61 MPI - Brighton Dr (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	62 MPI - Dee Ct - Morningside (Loop)	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	66 East Army Trail Rd Redevelopment Area	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	67 Bloomingdale Rd Lift Station	\$0	\$0	\$0	\$0	\$0	\$0

Village of Bloomington
 Water Sewer Fund
 Summary List of CIP Projects

Fund		FY20 Budget	FY21 Projected	FY22 Projected	FY23 Projected	FY24 Projected	Total
Water & Sewer	75 WRF FPA Improvements - Phase 4	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	76 WRF FPA Improvements - Phase 3	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	78 2005 Chevy Tahoe, Vehicle #512	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	79 WRF 2003 FORD Pick-up Vehicle #303	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	193 SCADA for Filter Process	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	291 Gary Ave Station #8 replace 200HP with 60HP pump	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	300 2005 Chevrolet Colorado Vehicle #531	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	331 2012 Ford 1 Ton Pick-up, Vehicle #612	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	360 Vehicle Meter Reader Transceiver Unit	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	362 Hydraulics Saw Package - ICS	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	363 Ingersol Rand Air Compressor Unit #692	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	365 Hydromatic 15 HP Submersible Pump - S10065171	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	367 WRF 6" Dri-Prime Portable Pump & Trailer	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	368 WRF Influent Odor Control Activated Carbon Drum Scrubber	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	370 WRF Biosolids Polymer/Chemical Mixing and Feed System -1	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	402 Eastside Ground Storage Tank Maintenance	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	421 2016 Ford F59 Step Van #316	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	431 Mac-Lander Trailer #JT104	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	441 MQ Generator DB138IJ Unit #501	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	442 MQ Generator 31089-USTB Unit #704	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	443 Doosan Generator G125WCU-3Q-T4i Unit #414	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	444 Gorman-Rupp 6" Pump Unit #688	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	462 Small Meter Bench Test Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	464 Emergency Generator at Station #8	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	465 Domestic Diesel Engine	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	475 2016 CAT430F2 IT Combination Backhoe Loader	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	476 2016 Doosan Generator G125WCU-3Q-T4i Unit #516	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	478 2017 Peterbilt 2 1/2 Ton Dump Truck #317	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	495 2017 E.H. Wachs Valve Maintenance Trailer Unit #VMT2	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	511 2017 Ford F-350 One-Ton Pickup - Truck #817	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	512 2017 Ford F-350 One-Ton Pickup - Truck #917	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	520 WRF Biosolids Polymer/Chemical Mixing and Feed System -2	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	521 WRF - Excess Flow Polymer/Chemical Mixing and Feed System	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	522 Chemical Feed System	\$0	\$0	\$0	\$0	\$0	\$0
Water & Sewer	530 Unit T118 - Enclosed Shoring Trailer	\$0	\$0	\$0	\$0	\$0	\$0
Total Projects - Water & Sewer		\$2,744,730	\$8,969,950	\$1,603,220	\$5,445,165	\$6,259,510	\$25,022,575

VILLAGE OF BLOOMINGDALE
 WATER & SEWER FUND 5-YEAR FORECAST

04/02/19

SUMMARY OF CAPITAL PROJECTS' REVENUES AND EXPENSES by Group/Project

GROUP/PROJECT	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	SOURCE, COMMENTS or ASSUMPTIONS
	(audited)	(budget)	(EOY)	(budget)	(forecast)	(forecast)	(forecast)	(forecast)	
	FY 04/30/18	FY 04/30/19	FY	FY	FY	FY	FY	FY	
Screening Grit Removal & Filter Upgrades WRF FPA Phase 2B & 2020 IEPA Loan									
2 Beginning Balance	0	0	0	(543,050)	0	0	0	0	
3 Annual Activity									
4 Loan Proceeds - Grit Screening/Removal & Filters	0	0	0	2,681,200	6,798,800	0	0	0	Committed to Grit Screen/Remove & Filters Project
5 Operating Transfers In - from HR Sales Tax	0	0	0	0	0	568,706	568,706	568,706	Committed to FPA Phase 2B Debt Service
6 WRF FPA Grit Screening/Removal Facility & Filters	0	(305,000)	(543,050)	(2,138,150)	(6,798,800)	0	0	0	FY20 CIP - Grit Screening/Removal Facility & Filters
7 FPA Phase 2B - 2020 IEPA Loan P & I	0	0	0	0	0	(568,706)	(568,706)	(568,706)	Grit Screening/Removal & Filters - retired in FY42
8 Total Annual Activity	0	(305,000)	(543,050)	543,050	0	0	0	0	
9 Ending Balance	0	(305,000)	(543,050)	0	0	0	0	0	
Non-WRF FPA Related Projects/CIP									
11 Beginning Balance	(487,139)	(681,194)	(681,194)	(627,029)	(435,429)	(531,924)	(753,504)	(840,164)	
12 Annual Activity									
13 Sewer Rate Revenue - capital projects (6/1/12)	31,857	0	0	0	0	0	0	0	5¢ Committed to non-WRF capital projects
14 Water Rate Revenue - capital projects (6/1/12)	152,809	0	0	0	0	0	0	0	18¢ Committed to non-WRF capital projects
15 Water Rate Revenue - capital projects (5/1/16)	0	0	0	0	0	0	0	0	5¢ (DWC) Committed to non-WRF capital projects
16 Operating Transfers In - from HR Sales Tax	0	0	0	0	350,000	0	460,000	0	Committed to non-WRF FFA capital projects
17 Tap-Ch Fees - Water	13,965	35,625	28,080	45,600	44,460	26,220	26,220	26,220	Committed to non-WRF FFA capital projects
18 Tap-Ch Fees - Sewer	17,462	331,250	261,065	424,000	413,400	243,800	243,800	243,800	Committed to non-WRF FFA capital projects
19 Gain on Sale of Assets and Other	277,000	5,000	5,485	5,000	14,300	14,300	14,300	14,300	Committed to non-WRF FFA capital projects
20 Non WRF FPA Capital Projects	(687,148)	(414,000)	(240,465)	(283,000)	(916,655)	(505,900)	(830,980)	(118,400)	FY20 CIP - excludes Major Mtc & Depreciation
21 Total Annual Activity	(194,054)	(42,125)	54,165	191,600	(96,495)	(221,580)	(86,660)	165,920	
22 Ending Balance	(681,194)	(723,319)	(627,029)	(435,429)	(531,924)	(753,504)	(840,164)	(674,244)	
Water Meter Replacement & Upgrade									
24 Beginning Balance	0	0	0	0	0	0	0	0	
25 Annual Activity									
26 Operating Transfers In - from HR Sales Tax	0	0	0	0	0	0	0	659,252	Committed to Water Meter Replacement Debt Service
27 Loan Proceeds - Water Meter Replace/Upgrade	0	0	0	0	0	0	3,000,000	0	Committed to Water Meter Replace/Upgrade Project
28 Water Meter Replacement & Upgrade	0	0	0	0	0	0	(3,000,000)	0	FY20 CIP - Water Meter Replacement & Upgrade
29 Water Meter Replacement & Upgrade Loan P & I	0	0	0	0	0	0	0	(659,252)	Water Meter Replace/Upgrade - retired in FY29
30 Total Annual Activity	0	0	0	0	0	0	0	0	
31 Ending Balance	0	0	0	0	0	0	0	0	

VILLAGE OF BLOOMINGDALE
 WATER & SEWER FUND 5-YEAR FORECAST

04/02/19

SUMMARY OF CAPITAL PROJECTS' REVENUES AND EXPENSES by Group/Project

GROUP/PROJECT	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	SOURCE, COMMENTS or ASSUMPTIONS
	(audited)	(budget)	(EOY)	(budget)	(forecast)	(forecast)	(forecast)	(forecast)	
	FY 04/30/18	FY 04/30/19	FY 04/30/20	FY 04/30/21	FY 04/30/22	FY 04/30/23	FY 04/30/24		
Phosphorous Compliance									
32 Beginning Balance	0	0	0	0	0	0	0	(485,000)	
34 Annual Activity									
35 Operating Transfers In - from HR Sales Tax	0	0	0	0	0	0	0	0	Committed to Phosphorous Compliance Debt Service
36 Loan Proceeds - Phosphorous Compliance	0	0	0	0	0	0	0	5,525,000	Committed to Phosphorous Compliance Project
37 WRF FPA Phosphorous Compliance	0	0	0	0	0	0	(485,000)	(5,040,000)	FY20 CIP - Phosphorous Compliance
38 WRF FPA Phosphorous Compliance Debt P & I	0	0	0	0	0	0	0	0	Phosphorous Compliance - retired in FY45
39 Total Annual Activity	0	0	0	0	0	0	(485,000)	485,000	
40 Ending Balance	0	0	0	0	0	0	(485,000)	0	
WRF FPA Phase 1 & 2008 IEPA Loan									
42 Beginning Balance	4,770,334	4,683,460	4,683,460	4,244,195	3,804,930	3,365,665	2,926,400	2,487,135	
43 Annual Activity									
44 Operating Transfers In - from HR Sales Tax	600,000	600,000	360,000	360,000	360,000	360,000	360,000	360,000	Committed to FPA Phase 1 Debt Service
45 Tap-On Fees - Sewer	112,388	0	0	0	0	0	0	0	
46 FPA Phase 1 - 2008 IEPA Loan P & I	(799,262)	(799,265)	(799,265)	(799,265)	(799,265)	(799,265)	(799,265)	(799,265)	WRF FPA Phase 1 - retired in FY29
47 Total Annual Activity	(86,874)	(199,265)	(439,265)	(439,265)	(439,265)	(439,265)	(439,265)	(439,265)	
48 Ending Balance	4,683,460	4,484,195	4,244,195	3,804,930	3,365,665	2,926,400	2,487,135	2,047,870	
WRF FPA Phase 2A & 2011 IEPA Loan									
50 Beginning Balance	92,095	(3,305)	(3,305)	(8,980)	(12,895)	(9,474)	(6,053)	(2,633)	
51 Annual Activity									
52 Sewer Rate Revenue - FPA Phase 2A (5/1/09)	176,580	183,330	171,310	173,070	172,406	172,406	172,406	172,406	27% Committed to Debt Service
53 Operating Transfers In - from HR Sales Tax	0	0	95,000	95,000	103,000	103,000	103,000	103,000	Committed to FPA Phase 2A Debt Service
54 FPA Phase 2A - 2011 IEPA Loan P & I	(271,980)	(271,985)	(271,985)	(271,985)	(271,985)	(271,985)	(271,985)	(271,985)	WRF FPA Phase 2A - retired in FY32
55 Total Annual Activity	(95,400)	(88,655)	(5,675)	(3,915)	3,421	3,421	3,421	3,421	
56 Ending Balance	(3,305)	(91,960)	(8,980)	(12,895)	(9,474)	(6,053)	(2,633)	788	
Summary									
57 Beginning Balance	4,375,290	3,998,961	3,998,961	3,065,135	3,356,606	2,824,267	2,166,843	1,159,338	
58 Annual Activity	(376,329)	(635,045)	(933,825)	291,470	(532,339)	(657,424)	(1,007,504)	215,076	
59 Ending Balance	3,998,961	3,363,916	3,065,136	3,356,606	2,824,267	2,166,843	1,159,338	1,374,414	

VILLAGE OF BLOOMINGDALE
WATER & SEWER FUND 5-YEAR FORECAST
SUMMARY OF CAPITAL PROJECTS' REVENUES AND EXPENSES by Source

04/02/19

	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		
	(audited)	(budget)	(EOY)	(budget)	(forecast)	(forecast)	(forecast)	(forecast)	SOURCE, COMMENTS	
	FY	FY		FY	FY	FY	FY	FY	or ASSUMPTIONS	
	04/30/18	04/30/19		04/30/20	04/30/21	04/30/22	04/30/23	04/30/24		
CAPITAL REVENUES										
1	Sewer Rate Revenue - FPA Phase 2A (5/1/09)	176,580	183,330	171,310	173,070	172,406	172,406	172,406	27¢ Committed to Debt Service	
2	Sewer Rate Revenue - capital projects (6/1/12)	31,857	0	0	0	0	0	0	5¢ Committed to non-WRF capital projects	
3	Water Rate Revenue - capital projects (6/1/12)	152,809	0	0	0	0	0	0	18¢ Committed to non-WRF capital projects	
4	Water Rate Revenue - capital projects (5/1/16)	0	0	0	0	0	0	0	5¢ (DWC) Committed to non-WRF capital projects	
5	Operating Transfers In - from HR Sales Tax	600,000	600,000	360,000	360,000	360,000	360,000	360,000	Committed to FPA Phase 1 Debt Service	
6	Operating Transfers In - from HR Sales Tax	0	0	95,000	95,000	103,000	103,000	103,000	Committed to FPA Phase 2A Debt Service	
7	Operating Transfers In - from HR Sales Tax	0	0	0	0	350,000	0	460,000	0 Committed to non-WRF FPA capital projects	
8	Operating Transfers In - from HR Sales Tax	0	0	0	0	0	568,706	568,706	Committed to FPA Phase 2B Debt Service	
9	Operating Transfers In - from HR Sales Tax	0	0	0	0	0	0	659,252	Committed to Water Meter Replacement Debt Service	
10	Operating Transfers In - from HR Sales Tax	0	0	0	0	0	0	0	Committed to Phosphorus Compliance Debt Service	
11	Tap-On Fees - Water	13,965	35,625	28,080	45,600	44,460	26,220	26,220	Committed to non-WRF FPA capital projects	
12	Tap-On Fees - Sewer	129,850	331,250	261,065	424,000	413,400	243,800	243,800	Committed to non-WRF FPA capital projects	
13	Loan Proceeds - Grit Screening/Removal & Filters	0	0	0	2,681,200	6,798,800	0	0	Committed to Grit Screen/Remove & Filters Project	
14	Loan Proceeds - Water Meter Replace/Upgrade	0	0	0	0	0	0	3,000,000	Committed to Water Meter Replace/Upgrade Project	
15	Loan Proceeds - Phosphorus Compliance	0	0	0	0	0	0	5,525,000	Committed to Phosphorus Compliance Project	
16	Loan Proceeds - FPA Phase 3	0	0	0	0	0	0	0	Committed to FPA Phase 3 Project	
17	Loan Proceeds - FPA Phase 4	0	0	0	0	0	0	0	Committed to FPA Phase 4 Project	
18	Gain on Sale of Assets and Other	277,000	5,000	5,485	5,000	14,300	14,300	14,300	Committed to non-WRF FPA capital projects	
19	TOTAL CAPITAL REVENUES	1,382,062	1,155,205	920,940	3,783,870	8,256,366	1,488,432	4,948,432	7,672,684	
CAPITAL EXPENSES										
20	Capital Projects excluding Major Maintenance -									
21	Non WRF FPA	687,148	414,000	240,465	283,000	918,655	505,900	830,980	118,400	FY20 CIP - excludes Major Mtc & Depreciation
22	WRF FPA Grit Screening/Removal Facility & Filters	0	305,000	543,050	2,138,150	6,798,800	0	0	0	FY20 CIP - Grit Screening/Removal Facility & Filters
23	Water Meter Replacement & Upgrade	0	0	0	0	0	0	3,000,000	0	FY20 CIP - Water Meter Replacement & Upgrade
24	WRF FPA Phosphorus Compliance	0	0	0	0	0	0	485,000	5,040,000	FY20 CIP - Phosphorous Compliance
25	WRF FPA Phase 3	0	0	0	0	0	0	0	0	FY20 CIP - WRF FPA Phase 3
26	WRF FPA Phase 4	0	0	0	0	0	0	0	0	FY20 CIP - WRF FPA Phase 4
27	Sub-Total Capital Projects	687,148	719,000	783,515	2,421,150	7,717,455	505,900	4,315,980	5,158,400	
27	Debt Service -									
28	FPA Phase 1 - 2008 IEPA Loan - P & I	799,262	799,265	799,265	799,265	799,265	799,265	799,265	799,265	WRF FPA Phase 1 - retired in FY29
30	FPA Phase 2A - 2011 IEPA Loan P & I	271,980	271,985	271,985	271,985	271,985	271,985	271,985	271,985	WRF FPA Phase 2A - retired in FY32
31	FPA Phase 2B - 2020 IEPA Loan P & I	0	0	0	0	0	568,706	568,706	568,706	Grit Screening/Removal & Filters - retired in FY42
32	Water Meter Replacement & Upgrade	0	0	0	0	0	0	0	659,252	Water Meter Replace/Upgrade - retired in FY29
33	Phosphorus Compliance - Loan P & I	0	0	0	0	0	0	0	0	Phosphorus Compliance - retired in FY45
34	FPA Phase 3 - Loan P & I	0	0	0	0	0	0	0	0	WRF FPA Phase 3
35	FPA Phase 4 - Loan P & I	0	0	0	0	0	0	0	0	WRF FPA Phase 4
36	Sub-Total Debt Service	1,071,243	1,071,250	1,071,250	1,071,250	1,071,250	1,639,956	1,639,956	2,299,208	
37	TOTAL CAPITAL & DEBT SERVICE	1,758,391	1,790,250	1,854,765	3,492,400	8,788,705	2,145,856	5,955,936	7,457,608	
EXCESS/(DEFICIENCY) OF CAPITAL REVENUES OVER CAPITAL & DEBT SERVICE EXPENSES										
38		(376,329)	(635,045)	(933,825)	291,470	(532,339)	(657,424)	(1,007,504)	215,076	FISCAL OBJECTIVE "Cash" Financing

VILLAGE OF BLOOMINGDALE
 WATER & SEWER FUND 5-YEAR FORECAST
 SUMMARY OF CASH BALANCES

04/02/19

SUMMARY OF ACTIVITY	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	SOURCE, COMMENTS or ASSUMPTIONS
	(audited)	(budget)	(EOY)	(budget)	(forecast)	(forecast)	(forecast)	(forecast)	
	FY 04/30/18	FY 04/30/19	FY 04/30/20	FY 04/30/21	FY 04/30/22	FY 04/30/23	FY 04/30/24		
1 BEGINNING CASH BALANCE	7,767,898	7,501,356	7,501,356	6,803,291	7,144,271	6,415,232	5,661,307	4,496,203	Prior year's ending balance
OPERATING NET INCOME (LOSS)									
2 BEFORE DEPRECIATION	109,787	(51,690)	235,760	49,510	(196,700)	(96,500)	(157,600)	(229,400)	
EXCESS/(DEFICIENCY) OF CAPITAL									
3 REVENUES OVER CAPITAL EXPENSES	(376,329)	(635,045)	(933,825)	291,470	(532,339)	(657,424)	(1,007,504)	215,076	
4 NET CHANGE from Operations & Capital	(266,542)	(686,735)	(698,065)	340,980	(729,039)	(753,924)	(1,165,104)	(14,324)	Annual Impact to Cash Balance
5 ENDING CASH BALANCE	7,501,356	6,814,621	6,803,291	7,144,271	6,415,232	5,661,307	4,496,203	4,481,879	
ALLOCATION OF ENDING CASH BALANCE									
	90	90	90	90	90	90	83	90	# of days working capital
	25%	25%	25%	25%	25%	25%	23%	25%	% of working capital
6 COMMITTED									
7 Operating Reserves/Working Capital	2,128,470	2,199,063	2,080,414	2,178,280	2,248,575	2,248,025	2,117,347	2,327,975	25% of Total Operating Expenses
8 WRF FPA Phase 1 - 2008 IEPA Loan	4,770,334	4,571,069	4,131,804	3,692,539	3,253,274	2,814,009	2,374,744	1,935,479	cumulative; beg bal plus rev less debt svc
9 WRF FPA Phase 2A - 2011 IEPA Loan	92,095	3,440	(2,234)	(6,149)	(2,729)	692	4,113	7,534	cumulative; beg bal plus rev less debt svc
11 Total Committed	6,990,899	6,773,572	6,209,983	5,864,669	5,499,120	5,062,726	4,496,203	4,270,987	
12 "EXCESS" AVAILABLE FOR CAPITAL	510,457	41,049	593,308	1,279,602	916,112	598,582	0	210,892	
13 ENDING CASH BALANCE	7,501,356	6,814,621	6,803,291	7,144,271	6,415,232	5,661,307	4,496,203	4,481,879	

VILLAGE OF BLOOMINGDALE
WATER & SEWER FUND 5-YEAR FORECAST
SUMMARY OF RATE REVENUES TO OPERATING EXPENSES

04/02/19

	[A] (audited) FY 04/30/18	[B] (budget) FY 04/30/19	[C] (E.O.Y) FY 04/30/21	[D] (budget) FY 04/30/22	[E] (forecast) FY 04/30/21	[F] (forecast) FY 04/30/22	[G] (forecast) FY 04/30/23	[H] (forecast) FY 04/30/24	SOURCE, COMMENTS or ASSUMPTIONS
SUMMARY									
WATER FUNCTION									
1 Rate revenues	5,727,804	6,038,757	6,082,334	6,069,448	5,889,389	6,000,073	6,105,084	6,210,199	
2 Operating expenses	5,711,818	5,916,248	5,560,160	5,949,125	6,034,600	6,140,000	6,253,250	6,368,750	
Excess/(Deficiency) of Water Revenues									
3 Over/(Under) Water Expenses	15,987	122,509	522,174	120,323	(145,211)	(139,927)	(148,166)	(158,551)	Average Excess FY15 through FY19 \$241,391
SEWER FUNCTION									
4 Rate revenues	2,895,862	2,705,803	2,475,081	2,693,182	2,908,211	2,895,527	2,887,816	2,872,301	
5 Operating expenses	2,802,062	2,880,003	2,761,495	2,763,995	2,959,700	2,852,100	2,897,250	2,943,150	
Excess/(Deficiency) of Sewer Revenues									
6 Over/(Under) Water Expenses	93,801	(174,199)	(286,414)	(70,813)	(51,489)	43,427	(9,434)	(70,849)	Average Excess FY15 through FY19 (\$15,334)
OPERATING NET INCOME (LOSS)									
7 BEFORE DEBT SERVICE EXPENSES	109,787	(51,690)	235,760	49,510	(196,700)	(96,500)	(157,600)	(229,400)	Same as Part 1 - Row 19
DETAIL									
OPERATING REVENUES									
8 Water -	66.42%	69.06%	71.08%	69.43%	66.90%	67.32%	67.74%	68.15%	
9 Water Rate Revenue	5,534,813	5,812,000	5,828,000	5,821,000	5,635,910	5,748,628	5,863,601	5,980,873	Known rates; 5 Yr Ave gals billed
10 Other Operating Revenue Allocation	192,991	226,757	254,334	248,448	253,479	251,445	241,483	229,326	Prorate allocation based on rate revenue
11 Total Water Rate Revenues	5,727,804	6,038,757	6,082,334	6,069,448	5,889,389	6,000,073	6,105,084	6,210,199	
12 Sewer -	33.58%	30.94%	28.92%	30.57%	33.10%	32.68%	32.26%	31.85%	
13 Sewer Rate Revenue	2,798,290	2,604,200	2,371,585	2,562,750	2,788,190	2,790,472	2,792,799	2,795,127	Known rates; 5 Yr Ave gals billed
14 Other Operating Revenue Allocation	97,573	101,603	103,496	133,432	120,021	105,055	95,017	77,174	Prorate allocation based on rate revenue
15 Total Sewer Rate Revenues	2,895,862	2,705,803	2,475,081	2,693,182	2,908,211	2,895,527	2,887,816	2,872,301	
16 TOTAL OPERATING REVENUES	8,623,666	8,744,560	8,557,415	8,762,630	8,797,600	8,895,600	8,992,900	9,082,500	Same as Part 1 - Row 5
OPERATING & DEBT EXPENSES									
17 Water -									
18 Finance	139,280	142,093	133,910	137,995	140,200	142,400	144,650	146,950	
19 Source of Supply	799,996	847,295	811,835	774,130	786,400	798,800	811,400	824,200	
20 DWC O&M Costs	3,555,943	3,715,080	3,458,665	3,735,060	3,810,800	3,887,000	3,964,700	4,044,000	
21 DWC Fixed Costs	0	0	0	0	0	0	0	0	
22 Distribution System	1,206,599	1,211,780	1,155,750	1,300,940	1,297,200	1,311,800	1,332,500	1,353,600	
23 Debt Service & Transfers Out	0	0	0	0	0	0	0	0	
24 Total Water Operating Expenses	5,711,818	5,916,248	5,560,160	5,949,125	6,034,600	6,140,000	6,253,250	6,368,750	
25 Sewer -									
26 Finance	139,280	142,093	133,910	137,995	140,200	142,400	144,650	146,950	
27 Sanitary Collection System	787,429	844,250	799,360	745,065	806,800	768,800	781,000	793,400	
28 Water Reclamation Facility	1,875,353	1,893,660	1,828,225	1,880,935	2,012,700	1,940,900	1,971,600	2,002,800	
29 Debt Service	0	0	0	0	0	0	0	0	
30 Total Sewer Operating Expenses	2,802,062	2,880,003	2,761,495	2,763,995	2,959,700	2,852,100	2,897,250	2,943,150	
31 TOTAL OPERATING & DEBT SERVICE EXPENSES	8,513,879	8,796,250	8,321,655	8,713,120	8,994,300	8,992,100	9,150,500	9,311,900	Same as Part 1 - Row 18