

# **Financial Services Audit Committee Communication**

Date: December 21, 2018

**To:** Great Lakes Water Authority Audit Committee

**From:** Nicolette N. Bateson, CPA, Chief Financial Officer/Treasurer

**Re:** Discussion Draft: FY 2020 & 2021 Biennial Budget and Five-Year Plan

**Background:** In accordance with service agreements with Great Lakes Water Authority (GLWA) member partners, charges for the next fiscal year are annually presented at the end of January each year. To accommodate that schedule, the budget process for the GLWA begins early.

**Analysis:** Attached are the following related to discussion of the upcoming FY 2020 & 2021 Biennial Budget and Five-Year Plan.

- Memo from The Foster Group (TFG) that provides some history and context to GLWA's budget and charges cycle. Further, TFG provides a list of key open items that need to be resolved in January to best achieve completeness of charge proposals as well as support timely approval of the budget and charges.
- Draft operating area budgets for operations and maintenance activities.
- Schedule of upcoming activities and due dates related to the budget cycle.
- Capital Improvement Program funding plans from the most recently completed official statements.

**Proposed Action:** Receive for further review and discussion at the next Audit Committee meeting on January 4, 2019 at 8 am.

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#### **MEMORANDUM**

Preliminary FY 2020 Budget/Charge Planning Executive Summary

December 19, 2018

To: Nicolette Bateson

From: Bart Foster

You have asked for preliminary observations regarding the planning parameters and open issues impacting potential GLWA proposed budgets, cost of service allocations, and water and sewer charges for FY 2020. This memorandum is intended to introduce our initial perspectives on those elements in an executive summary format. We have included historical information to provide some context to the discussion in both this summary introduction and the accompanying more detailed commentary and exhibits.

#### **Background / Recent History**

Anytime the relative change in GLWA budgets and charges is discussed it is important to provide context regarding the "4% increase limitation" set forth in the Leases that effectively established GLWA. Specifically, Article 5.6 of the Lease(s) states:

"As provided in the MOU, through the Fiscal Year ending June 30, 2025, the Water (Sewer) System is assumed to experience annual increases in the Authority Revenue Requirement of not more than 4%; provided however, this limitation shall not be applicable if the Authority Revenue Requirement must increase beyond the 4% assumption in order to satisfy the Rate Covenant or to pay the cost of improvements to the Leased Water (Sewer) Facilities that are required to be made by Applicable Laws."

Clearly the intent of the foundational documents was to target annual increases in the Authority *revenue requirement* that did not exceed 4%, while recognizing that other elements might impact annual *charge* adjustments that varied from this amount. These "other elements" include varying levels of baseline revenues associated with water sales and demographic changes in the Authority customer base, and varying levels of "non-charge" revenue (such as investment earnings) that are eligible to meet the total revenue requirement.

This understanding is essential when reviewing the annual changes in revenue requirements and charges that have been implemented by GLWA since its inception, as illustrated in the table below.

GLWA Budget / Charge Adjustment History									
	FY 2017	FY 2018	FY 2019	Avg to Date					
Revenue Requirement Increase									
Water Supply System	4.0%	-0.9%	1.0%	1.3%					
Sewage Disposal System	4.0%	0.3%	1.0%	1.8%					
Combined Water and Sewer	4.0%	-0.2%	1.0%	1.6%					
O&M Budget Increase									
Water Supply System	4.0%	8.7%	0.0%	4.2%					
Sewage Disposal System	4.0%	8.7%	0.0%	4.2%					
Combined Water and Sewer	4.0%	8.7%	0.0%	4.2%					
Average Charge Increase									
Water Supply System	4.5%	1.9%	1.6%	2.7%					
Sewage Disposal System	8.3%	-0.7%	0.1%	2.5%					
Combined Water and Sewer	6.7%	0.3%	0.7%	2.5%					
Planned I&E / Reserve Deposits - \$ millions									
Water Supply System	23.8	34.4	39.1						
Sewage Disposal System	<u>14.1</u>	<u>14.6</u>	<u>12.2</u>						
Combined Water and Sewer	37.9	49.1	51.3						

The table presents key metrics for each year, including annual changes in revenue requirements, operation and maintenance expense budgets, and "average" System charges. The figures in green at the bottom of the table represent the planned revenue requirements that are remaining in the Master Bond Ordinance ("MBO") flow of funds after addressing requirements for operating expense, debt service, and the fixed MBO requirements including the Lease Payment. We've often referred to these amounts as "the bottom line" as they reflect amounts available to the Improvement and Extension Fund and/or reserve funds. Growth in these amounts is key to the overall GLWA financial improvement and sustainability strategy, as articulated in the foundational agreements.

Let's briefly discuss the developments for each fiscal year plan.

FY 2017 was the initial year for which GLWA had control over budgets and charges. The FY 2017 overall revenue requirement increase was established equivalent to the 4% promise for both the Water and Sewer systems, and the operating expense budgets were increased by the same amount. The Water average charge increase was slightly higher than the revenue requirement increase due to slightly lower revenues from projected water sales and investment increase. The Sewer average charge increase was also higher than the revenue requirement increase. This metric is complicated by a couple of matters. Charges in the prior year (FY 2016) included amounts related to the final year of the "Five Year Look-Back" adjustments that had the effect of increasing revenues to recover amounts that were not included in budgeted revenue requirements. Unwinding this element created a negative impact on baseline

December 19, 2018 Page 3

revenues<sup>1</sup>. Also, the FY 2017 Sewer charges included a significant amount related to the "bad debt true-up" related to Highland Park, which was included as a charge requirement for the suburban wholesale charges, but not as a budgeted revenue requirement<sup>2</sup>.

FY 2018 marked the first year for which significant debt service savings associated with the initial GLWA revenue bond transactions in October 2016 were reflected in the budgeted revenue requirements. These savings supported an initially proposed FY 2018 financial plan that included a 2% budgeted revenue requirement increase for the Sewer system, and a "flat" (no increase) budgeted revenue requirement for the Water system. Final modifications as part of the budget / charge review process lowered the budgeted revenue requirements to those shown in the table, and actually resulted in a revenue requirement **decrease** of approximately one percent for Water. The operating budget increase of 8.7% for both systems is a bit misleading. GLWA made an administrative change regarding how certain activities, such as purchases of minor equipment, were budgeted. In prior budgets, these amounts were assumed to be "capitalizable" and were effectively addressed via the "bottom line" portion of the budget. GLWA realized that these amounts were more appropriately treated as operating expenses and included them in the operating budget for FY 2018. This \$20 million budget reallocation had the effect of turning a budget increase of less than two percent to the 8.7% shown in the table. The average FY 2018 charge adjustment for Water was actually an increase despite the budgeted revenue requirement decrease. This reflected the planned exit of Genesee County as a full-service water customer during FY 2018, and the resulting loss of baseline revenues. Conversely, the average FY 2018 charge adjustment for Sewer was actually a small decrease despite the budgeted revenue requirement increase. This also results from bad debt true-up adjustments for the suburban wholesale and Detroit customer classes, which are included as charge requirements but not as budgeted revenue requirements. The FY 2018 suburban wholesale charge requirements for Highland Park bad debt were reduced by \$1.8 million from FY 2017 levels<sup>3</sup>, and the baseline revenues for FY 2018 included \$4.2 million for Detroit bad debt true-up, which was not in prior revenue projections for purposes of these analyses<sup>4</sup>.

The initially proposed financial plans for FY 2019 included 2% budgeted revenue requirement increases for both the Water and Sewer systems. These initial plans sought to modify the allocation of certain Administrative and Centralized Services functions between the Water and Sewer operating budgets. Initial analyses indicated that more of these costs should be allocated to Water, and the preliminary operating expense budgets reflected a phased approach to reflect those analyses. As a result, initially the Water O&M budget increase was 3.1% and the Sewer O&M budget increase was 1.1%. Overall the preliminary O&M budget increase was just under 2.0%. Final modifications as part of the budget / charge review process resulted in a reduction of the overall budgeted revenue requirement increases from 2.0% to 1.0%, and a decision to

<sup>&</sup>lt;sup>1</sup> In hindsight, there are other analytical approaches that could change how the Sewer "charge increase" for FY 2017 is reflected. We've opted to maintain the approach that resulted in previously published information.

<sup>&</sup>lt;sup>2</sup> The impact of Highland Park bad debt expense on Sewer and Water charges is discussed in a separate document nearby.

<sup>&</sup>lt;sup>3</sup> Ibid footnote 2.

<sup>&</sup>lt;sup>4</sup> Ibid footnote 1 for FY 2018.

accommodate the revised totals by maintaining the FY 2019 O&M budgets at FY 2018 levels for both the Water and Sewer systems. As a result, the initially envisioned phased allocation adjustment regarding Administrative and Centralized Services functions was not reflected in the FY 2019 budget. The average FY 2019 charge adjustment for Water was slightly higher than the revenue requirement increase due to slightly lower projected investment income. The average FY 2019 charge adjustment for Sewer was lower than the budgeted revenue requirement increase, again reflecting the impact of bad debt true-up adjustments. The FY 2019 suburban wholesale charge requirements for Highland Park bad debt were reduced by \$2.5 million from FY 2018 levels<sup>5</sup>.

To summarize the developments for the three fiscal years for which GLWA has established financial plans and charges:

- The average annual increase in budgeted . . .
  - Revenue requirements has been 1.6%, slightly higher for Water and slightly lower for Sewer;
  - o Operation and maintenance expense has been 4.2%;
    - This increase reflects a modified budget recognition of certain elements such as purchases of minor equipment.
  - Average charges to Customers has been approximately 2.5% for both Water and Sewer.
- The financial plans have produced planned levels of revenues "available to the bottom line" that are comparable to the originally projected levels envisioned in the feasibility forecasts established at the creation of the Authority and the accompanying \$50 million annual Lease Payment *despite lower revenue requirement and charge increases than originally envisioned*. These successful financial planning "bottom line" results are in large part due to:
  - Stabilized water and sewer revenues as a result of strategic charge modifications;
  - o Continued executive / managerial controls on operating expenses;
  - The ability to refinance outstanding debt at lower interest rates and to leverage a fundamental premise of the Authority;
  - o A lower than originally forecasted level of investment in capital improvements.

Material providing additional detail of the historical summary presented above is presented in the exhibits accompanying this memorandum.

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<sup>&</sup>lt;sup>5</sup> Ibid footnote 2.

#### FY 2020 Planning - Evolution

Now let's address the various depictions of the FY 2020 financial plan. For purposes of this discussion we've established four scenarios.

- A. Original plan from 2<sup>nd</sup> year of the FY 2019 Biennial Budget
- B. Updated forecast resulting from the Series 2018 bond sale results
- C. Initial planning level budget targets
- D. Working version of budget as of 12/18/18

The table below presents key metrics for each FY 2020 scenario, in the same format previously presented for the historical financial plans.

FY 2020 GLWA Budget / Charge Planning										
	FY 2019	Bond Sale	Initial	Working						
	Biennial	Forecast	Planning	Budget as of						
	<b>Budget</b>	<u>Update</u>	<u>Budget</u>	12/18/18						
	A	В	C	D						
Revenue Requirement Increase										
Water Supply System	4.0%	4.0%	3.5%	3.5%						
Sewage Disposal System	4.0%	4.0%	3.5%	3.5%						
Combined Water and Sewer	4.0%	4.0%	3.5%	3.5%						
O&M Budget Increase										
Water Supply System	2.0%	2.0%	2.0%	9.6%						
Sewage Disposal System	2.0%	2.0%	2.0%	0.4%						
Combined Water and Sewer	2.0%	2.0%	2.0%	4.0%						
Average Charge Increase										
Water Supply System	4.1%	2.1%	1.6%	1.6%						
Sewage Disposal System	4.0%	3.1%	2.6%	2.1%						
Combined Water and Sewer	4.0%	2.7%	2.2%	1.9%						
Planned I&E / Reserve Deposits - \$ millions										
Water Supply System	42.2	45.2	43.5	34.3						
Sewage Disposal System	<u>20.5</u>	<u> 26.8</u>	<u>24.4</u>	<u>27.4</u>						
Combined Water and Sewer	62.6	71.9	67.9	61.7						

Herewith a brief introduction of each financial plan scenario.

- A. Original plan from 2<sup>nd</sup> year of the FY 2019 Biennial Budget
  - 4% revenue requirement increase;
  - 2% O&M budget increase;
    - o Uniform Water / Sewer

- Charge increases that approximate revenue requirement increases.
- Planned "bottom line" contributions consistent with the originally projected levels envisioned in the feasibility forecasts established at the creation of the Authority.
  - o Higher for Water, slightly lower for Sewer

#### B. Updated forecast resulting from the Series 2018 bond sale results

- 4% revenue requirement increase;
- 2% O&M budget increase;
  - Uniform Water / Sewer
- Lower charge increases than revenue requirement increases due to recognition of higher forecasted investment income.
  - o Direct result of recognizing benefits of active investment strategies
- Recognition of debt service savings achieved via the Series 2018 bond sales.
  - o Resulting increase in "bottom line" results

#### C. Initial planning level budget targets

- 3.5% revenue requirement increase;
- 2% O&M budget increase;
  - Uniform Water / Sewer
- Lower charge increases than B due to lower "top line" targeted revenue requirement increase;
  - Resulting slight decrease in "bottom line" results

#### D. Working version of budget as of 12/18/18

- 3.5% revenue requirement increase;
- 4% O&M budget increase;
  - Overall increase from 2.0% to 4.0% attributable to lower shared services credit from DWSD and new projects in the Planning Group
  - Differential Water / Sewer increases reflecting additional review of specific Centralized and Administrative services
- No change in Water charge increase compared to C;
- Slight reduction in Sewer charge increase compared to C as a result of lower impact of Highland Park bad debt requirements<sup>6</sup>
- Slight reduction in overall combined charge increase compared to C, but . . .
  - Lower overall reduction in forecasted "bottom line" results, and a reallocation between Water and Sewer

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<sup>&</sup>lt;sup>6</sup> Ibid footnote 2

• These figures are approximately \$5 million higher (for both Water and Sewer) than those in the feasibility forecasts established at the creation of the Authority

Material providing additional detail on each of these scenarios is presented in the exhibits accompanying this memorandum.

# FY 2020 Planning - Ongoing Review

The preliminary "working version" scenario introduced above remains under review, including specific departmental budget requests. In addition, there are several parallel investigations regarding cost of service allocations that could impact how the proposed budget / charges impact individual Customers. These include:

- Ongoing review of the most appropriate assignment of "Centralized Services" and "Administrative Services" support costs to the Water and Sewer funds, and to cost pools within those funds;
- The potential operating agreement with OMID, and the impact of such on the GLWA revenue requirements and revenue requirement allocations to OMID and to other Sewer Customers;
- The impact on Water cost of service allocations and charges of:
  - The contract alignment project (CAP) and the impact on suburban wholesale master metered units of service;
  - The incorporation of the UoS study phase 2 findings regarding units of service for non-master metered Customers (Detroit, Dearborn, Highland Park)
- Incorporation of DWSD Local System budgets and financial plans;
- Budget and cost allocation impacts of potential changes in the GLWA / DWSD definitions of:
  - o Transmission / distribution main responsibility; and
  - o Service provided by DWSD to GLWA facilities

We continue diligent review on each of these issues and in our preparation of the FY 2020 Cost of Service Study and the accompanying proposed wholesale service charges for FY 2020.

We are prepared to discuss this matter at your convenience.

# GLWA Budget / Charge Adjustment History

# Water Supply System

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Annual R	evenue Requ	irement Sun	nmary - \$	Ann	ual Change	e - \$	Ann	ual Change	- %	Life to	o Date Cha	ange
		FY 2016	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019	<u>\$</u>	<u>%</u>	Annl %
1	Rev Req't Increase		4.0%	-0.9%	1.0%								4.1%	1.3%
2	O&M Budget Increase		4.0%	8.7%	0.0%								13.0%	4.2%
3	Average Charge Increase [see Line 18]		4.5%	1.9%	1.6%								8.2%	2.7%
	D 1 4 100M	107.6	111.0	101.6	101.6	4.2	0.7	0.0	4.007	0.70/	0.007	140	12.00/	4.207
4	Budgeted O&M	107.6	111.9	121.6	121.6	4.3	9.7	0.0	4.0%	8.7%	0.0%	14.0	13.0%	4.2%
5	Pension Obigation O&M	<u>6.0</u>	6.0	6.0	6.0	0.0	0.0	0.0	0.0%	0.0%	0.2%	<u>0.0</u>	0.2%	0.1%
6	Total O&M Expense	113.6	117.9	127.6	127.6	4.3	9.7	0.0	3.8%	8.2%	0.0%	14.0	12.3%	3.9%
7	Debt Service	151.8	159.3	135.5	134.2	7.4	(23.8)		4.9%	-15.0%	-0.9%	(17.6)	-11.6%	-4.0%
8	MBO Requirements	30.5	30.2	30.6	30.4	(0.3)	0.4	(0.2)	-1.1%	1.4%	-0.5%	(0.1)	-0.2%	-0.1%
9	I&E / Reserve Deposits	22.5	23.8	34.4	39.1	1.3	10.6	4.7	6.0%	44.5%	13.6%	16.6	73.9%	20.3%
10	Total Gross Revenue Req'ts	318.5	331.2	328.1	331.4	12.7	(3.1)	3.3	4.0%	-0.9%	1.0%	12.9	4.1%	1.3%
11	less: Investment Income	(3.9)	(3.2)	(4.2)	(3.8)	0.7	(1.1)	0.4	-18.6%	33.7%	-9.7%	0.1	-1.8%	-0.6%
12	Net Revenue Requirements	314.6	328.0	323.9	327.6	13.5	(4.2)	3.7	4.3%	-1.3%	1.1%	13.0	4.1%	1.4%
13	less: Revenue from Non-Contract Cust	0.0	0.0	(7.6)	0.0	0.0	(7.6)	7.6	0.0%	0.0%	-100.0%	0.0	0.0%	0.0%
14	Accomodation for H/P Bad Debt Expense	1.1	1.1	1.3	1,4	0.0	0.2	0.1	0.0%	16.2%	8.4%	0.3	25.9%	8.0%
15	Net Rev. Req't. from Charges to Customers	315.7	329.1	317.6	328.9	13.5	(11.6)	11.4	4.3%	-3.5%	3.6%	13.3	4.2%	1.4%
16	Revenue - Existing Charges (b)	315.7	315.1	311.6	323.6	(0.6)	(3.5)	12.0	-0.2%	-1.1%	3.8%	7.9	2.5%	0.8%
17	Additional Charge Revenue Needed		14.0	5.9	5.3	(\$.5)			0.27					0.07.0
18	Charge Increase (17) / (16)		4.5%	1.9%	1.6%									
19	Debt Service Coverage Ratio - Regional	1.35	1.34	1.48	1.52	(0.01)	0.14	0.04	-0.7%	10.5%	2.6%	0.17	12.5%	4.0%
20	(b) Based on WAMR Water Sales - m Mcf	13.36	13.17	13.15	13.17	(0.19)	(0.02)	0.03	-1.4%	-0.2%	0.2%	(0.18)	-1.4%	-0.5%

# GLWA Budget / Charge Adjustment History

# Sewage Disposal System

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Annual R	evenue Requ	irement Sun	nmary - \$	Anr	nual Change	e - \$	Ann	ual Change	- %	Life t	to Date Cha	ange
		FY 2016	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019	<u>\$</u>	<u>%</u>	Annl %
1	Rev Reg't Increase		4.0%	0.3%	1.0%								5.4%	1.8%
2	O&M Budget Increase		4.0%	8.7%	0.0%								13.0%	4.2%
3	Average Charge Increase [see Line 18]		8.3%	-0.7%	0.1%								7.6%	2.5%
4	Budgeted O&M (a)	169.1	175.9	191.1	191.1	6.8	15.2	0.0	4.0%	8.7%	0.0%	22.0	13.0%	4.2%
5	Pension Obigation O&M	10.8	10.8	10.8	10.8	0.0	0.0	(0.0)	0.0%	0.0%	-0.1%	(0.0)	-0.1%	0.0%
6	Total O&M Expense	179.9	186.7	201.9	201.9	6.8	15.2	(0.0)	3.8%	8.2%	0.0%	22.0	12.2%	3.9%
7	Debt Service	216.9	222.4	207.6	214.6	5.5	(14.8)	7.0	2.6%	-6.7%	3.4%	(2.3)	-1.0%	-0.4%
8	MBO Requirements	41.2	40.9	41.3	41.5	(0.3)	0.4	0.2	-0.8%	1.1%	0.4%	0.3	0.7%	0.2%
9	I&E / Reserve Deposits	8.2	14.1	14.6	12.2	5.9	0.6	(2.5)	71.3%	4.0%	-16.9%	3.9	48.0%	14.0%
10	Total Gross Revenue Req'ts	446.2	464.1	465.5	470.2	17.8	1.4	4.7	4.0%	0.3%	1.0%	23.9	5.4%	1.8%
11	less: Investment Income	(2.3)	(4.1)	(2.8)	(4.6)	(1.8)	1.4	(1.8)	80.2%	-33.2%	66.2%	(2.3)	100.2%	26.0%
12	Net Revenue Requirements	443.9	460.0	462.7	465.6	16.0	2.8	2.8	3.6%	0.6%	0.6%	21.6	4.9%	1.6%
13	Regional Bad Debt True-Up Adjustment	0.5	3.5	2.8	1.9	3.0	(0.6)	(0.9)	626.1%	-18.7%	-33.4%	1.4	292.8%	57.8%
14	Accomodation for H/P Bad Debt Expense	5.6	5.6	4.4	2.8	0.0	(1.2)	(1.6)	0.6%	-21.8%	-36.5%	(2.8)	-50.1%	-20.7%
15	Net Rev. Req't. from Charges to Customers	450.0	469.0	469.9	470.2	19.0	0.9	0.3	4.2%	0.2%	0.1%	20.2	4.5%	1.5%
16	Revenue - Existing Charges	443.9	433.2	473.1	470.0	(10.7)	39.9	(3.2)	-2.4%	9.2%	-0.7%	26.0	5.9%	1.9%
17	Additional Charge Revenue Needed		35.8	(3.2)	0.3									
18	Charge Increase (17) / (16)		8.3%	-0.7%	0.1%									
19	Debt Service Coverage Ratio - Regional	1.23	1.25	1.27	1.25	0.02	0.02	(0.02)	1.6%	1.8%	-1.5%	0.02	1.8%	0.6%

# GLWA Budget / Charge Adjustment History

#### Combined Water and Sewer Systems

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Annual R	evenue Requ	irement Sun	nmary - \$	Anr	nual Change	e - \$	Ann	ual Change	e - %	Life t	to Date Cha	inge
		FY 2016	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019	<u>\$</u>	<u>%</u>	Annl %
1	Rev Req't Increase		4.0%	-0.2%	1.0%								4.8%	1.6%
2	O&M Budget Increase		4.0%	8.7%	0.0%								13.0%	4.2%
3	Average Charge Increase [see Line 18]		6.7%	0.3%	0.7%								7.8%	2.5%
4	Budgeted O&M (a)	276.7	287.7	312.6	312.6	11.1	24.9	0.0	4.0%	8.7%	0.0%	36.0	13.0%	4.2%
5	Pension Obigation O&M	<u>16.9</u>	<u>16.9</u>	<u>16.9</u>	<u>16.9</u>	0.0	0.0	(0.0)	0.0%	0.0%	0.0%	(0.0)	0.0%	0.0%
6	Total O&M Expense	293.5	304.6	329.5	329.5	11.1	24.9	(0.0)	3.8%	8.2%	0.0%	36.0	12.3%	3.9%
7	Debt Service	368.7	381.7	343.1	348.8	13.0	(38.6)	5.7	3.5%	-10.1%	1.7%	(19.9)	-5.4%	-1.8%
8	MBO Requirements	71.7	71.1	71.9	71.9	(0.6)	0.9	(0.0)	-0.9%	1.2%	0.0%	0.2	0.3%	0.1%
9	I&E / Reserve Deposits	30.7	37.9	49.1	51.3	7.2	11.2	2.2	23.4%	29.5%	4.5%	20.6	67.0%	18.6%
10	Total Gross Revenue Req'ts	764.7	795.3	793.6	801.6	30.6	(1.7)	7.9	4.0%	-0.2%	1.0%	36.9	4.8%	1.6%
11	less: Investment Income	(6.2)	(7.3)	(7.0)	(8.4)	(1.1)	0.3	(1.4)	17.8%	-4.0%	20.1%	(2.2)	35.9%	10.8%
12	Net Revenue Requirements	758.5	788.0	786.6	793.1	29.5	(1.4)	6.5	3.9%	-0.2%	0.8%	34.6	4.6%	1.5%
13	Net Non Contract Rev/ Regional Bad Debt	0.5	3.5	(4.8)	1.9	3.0	(8.2)	6.7	626.1%	-238.5%	-139.1%	1.4	292.8%	57.8%
14	Accomodation for H/P Bad Debt Expense	6.7	6.7	5.7	4.2	0.0	(1.0)	(1.5)	0.5%	-15.5%	-26.4%	(2.5)	-37.5%	-14.5%
15	Net Rev. Req't. from Charges to Customers	765.7	798.2	787.5	799.2	32.5	(10.7)		4.2%	-1.3%	1.5%	33.5	4.4%	1.4%
16	Revenue - Existing Charges	759.6	748.3	784.8	793.6	(11.3)	36.4	8.8	-1.5%	4.9%	1.1%	34.0	4.5%	1.5%
17	Additional Charge Revenue Needed		49.8	2.7	5.6									
18	Charge Increase (17) / (16)		6.7%	0.3%	0.7%									

1.35

0.01

0.07

0.00

0.6%

5.2%

19 Debt Service Coverage Ratio - Regional

1.28

1.29

1.35

5.9%

1.9%

0.08

# FY 2020 GLWA Budget / Charge Worksheet

# Water Supply System

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		2019	A Original 2020	B - Updated 2020	from Bond Sale	C - 2020 Planı	ning Target	D - 2020 as o	f 12/18/18
		Budget	Budget/Fcst	Budget/Fcst	Variance	Budget/Fcst	Variance	Budget/Fcst	Variance
			A	В	·	$\overline{\mathbf{C}}$		D	
1	Rev Req't Increase		4.0%	4.0%	0.0%	3.5%	-0.5%	3.5%	-0.5%
2	O&M Budget Increase		2.0%	2.0%	0.0%	2.0%	0.0%	9.6%	7.6%
3	Average Charge Increase [see Line 18]	$\mathcal{A}$	4.1%	2.1%	-1.9%	1.6%	-2.4%	1.6%	-2.5%
4	Budgeted O&M (a)	121.6	124.0	124.0	0.0	124.0	0.0	133.2	9.3
5	Pension Obigation O&M	6.0	6.0	6.0	0.0	6.0	0.0	<u>6.0</u>	0.0
6	Total O&M Expense	127.6	130.0	130.0	0.0	130.0	0.0	139.3	9.3
7	Debt Service	134.2	141.9	139.0	(3.0)	139.0	(3.0)	139.0	(3.0)
8	MBO Requirements	30.4	30.5	30.5	(0.0)	30.5	(0.0)	30.5	(0.0)
9	I&E / Reserve Deposits	39.1	42.2	45.2	3.0	43.5	1.3	34.3	(7.9)
10	Total Gross Revenue Req'ts	331.4	344.7	344.7	0.0	343.0	(1.7)	343.0	(1.7)
11	less: Investment Income	(3.8)	(3.7)	(9.3)	(5.5)	(9.3)	(5.5)	(9.3)	(5.5)
12	Net Revenue Requirements	327.6	340.9	335.4	(5.5)	333.7	(7.2)	333.7	(7.2)
13	Regional Bad Debt True-Up Adjustment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Accomodation for H/P Bad Debt Expense	1.4	1.4	1.4	0.0	1.4	0.0	1.2	(0.2)
15	Net Rev. Req't. from Charges to Customers	328.9	342.3	336.8	(5.5)	335.1	(7.2)	334.9	(7.4)
16	Revenue - Existing Charges (b)	328.9	328.9	329.7	0.8	329.7	0.8	329.7	0.8
17	Additional Charge Revenue Needed	-	13.4	7.1	(6.3)	5.4	(7.9)	5.2	(8.1)
18	Charge Increase (17) / (16)	0.0%	4.1%	2.1%	-1.9%	1.6%	-2.4%	1.6%	-2.5%
19	Debt Service Coverage Ratio - Regional	1.53	1.52	1.55	0.03	1.54	0.02	1.47	(0.05)
	(a) Budgeted O&M Detail								
20	Water Operations	66.6	67.9	67.9	0.0	67.9	0.0	67.9	(0.0)
21	Water Allocation of Centralized	42.6	43.5	43.5	0.0	43.5	0.0	50.5	7.0
22	Water Allocation of Administrative	12.3	12.6	12.6	0.0	12.6	0.0	14.8	2.2
23	Total Water	121.6	124.0	124.0	0.0	124.0	0.0	133.2	9.3
24	Water Centralized %	43.0%	43.0%	43.0%	0.0%	43.0%	0.0%	47.2%	4.2%
25	Water Administrative %	43.0%	43.0%	43.0%	0.0%	43.0%	0.0%	50.0%	7.0%
26	(b) Based on Water Sales - m Mcf	13.17	13.17	13.28	0.11	13.28	0.11	13.28	0.11

# FY 2020 GLWA Budget / Charge Worksheet

# Sewage Disposal System

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		2019	A Original 2020	B - Updated 2020 t	from Bond Sale	C - 2020 Planr	ning Target	D-2020 as o	f 12/18/18
		Budget	Budget/Fcst	Budget/Fcst	Variance	Budget/Fcst	Variance	Budget/Fcst	<u>Variance</u>
			A	В		C		D	
1	Rev Req't Increase		4.0%	4.0%	0.0%	3.5%	-0.5%	3.5%	-0.5%
2	O&M Budget Increase		2.0%	2.0%	0.0%	2.0%	0.0%	0.4%	-1.6%
3	Average Charge Increase [see Line 18]		4.0%	3.1%	-0.9%	2.6%	-1.4%	2.1%	-1.9%
4	Budgeted O&M (a)	191.1	194.9	194.9	0.0	194.9	0.0	191.9	(3.0)
5	Pension Obigation O&M	10.8	<u>10.8</u>	<u>10.8</u>	0.0	10.8	0.0	10.8	0.0
6	Total O&M Expense	201.9	205.7	205.7	0.0	205.7	0.0	202.7	(3.0)
7	Debt Service	214.6	220.7	214.9	(5.8)	214.9	(5.8)	214.9	(5.8)
8	MBO Requirements	41.5	41.6	41.6	(0.0)	41.6	(0.0)	41.6	(0.0)
9	I&E / Reserve Deposits	12.2	20.5	26.8	6.3	24.4	4.0	27.4	7.0
10	Total Gross Revenue Req'ts	470.2	488.5	489.0	0.5	486.6	(1.9)	486.6	(1.9)
11	less: Investment Income	(4.6)	(4.1)	(8.8)	(4.7)	(8.8)	(4.7)	(8.8)	(4.7)
12	Net Revenue Requirements	465.6	484.3	480.1	(4.2)	477.8	(6.6)	477.8	(6.6)
13	Regional Bad Debt True-Up Adjustment	1.9	1.9	1.9	0.0	1.9	0.0	0.0	(1.9)
14	Accomodation for H/P Bad Debt Expense	2.8	2.8	2.8	0.0	2.8	0.0	2.2	(0.6)
15	Net Rev. Req't. from Charges to Customers	470.2	489.0	484.8	(4.2)	482.4	(6.6)	480.0	(9.0)
16	Revenue - Existing Charges	470.2	470.2	470.2	0.0	470.2	0.0	470.2	0.0
17	Additional Charge Revenue Needed	-	18.8	14.5	(4.2)	12.2	(6.6)	9.7	(9.0)
18	Charge Increase (17) / (16)	0.0%	4.0%	3.1%	-0.9%	2.6%	-1.4%	2.1%	-1.9%
19	Debt Service Coverage Ratio - Regional	1.27	1.30	1.34	0.04	1.33	0.03	1.33	0.03
	(a) Budgeted O&M Detail				$\prec$				
20	Sewer Operations	118.3	120.7	120.7	0.0	120.7	0.0	120.7	0.0
21	Sewer Allocation of Centralized	56.4	57.5	57.5	0.0	57.5	0.0	56.4	(1.1)
22	Sewer Allocation of Administrative	16.3	16.7	16.7	0.0	16.7	0.0	14.8	(1.9)
23	Total Sewer	191.1	194.9	194.9	0.0	194.9	0.0	191.9	(3.0)
24	Sewer Centralized %	57.0%	57.0%	57.0%	0.0%	57.0%	0.0%	52.8%	-4.2%
25	Sewer Administrative %	57.0%	57.0%	57.0%	0.0%	57.0%	0.0%	50.0%	-7.0%

# FY 2020 GLWA Budget / Charge Worksheet

# Combined Water and Sewer Systems

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		2019	A Original 2020	B - Updated 2020	from Bond Sale	C - 2020 Plann	ing Target	D - 2020 as o	f 12/18/18
		Budget	Budget/Fcst	Budget/Fcst	Variance	Budget/Fcst	Variance	Budget/Fcst	Variance
			A	В		C		D	
1	Rev Req't Increase		4.0%	4.0%	0.0%	3.5%	-0.5%	3.5%	-0.5%
2	O&M Budget Increase		2.0%	2.0%	0.0%	2.0%	0.0%	4.0%	2.0%
3	Average Charge Increase [see Line 15]		4.0%	2.7%	-1.3%	2.2%	-1.8%	1.9%	-2.1%
	P. 1 . 10011 ()		240.0	210.0		2100			
4	Budgeted O&M (a)	312.6	318.9	318.9	0.0	318.9	0.0	325.2	6.3
5	Pension Obigation O&M	<u>16.9</u>	<u>16.9</u>	<u>16.9</u>	0.0	<u>16.9</u>	0.0	<u>16.9</u>	0.0
6	Total O&M Expense	329.5	335.8	335.8	0.0	335.8	0.0	342.0	6.3
7	Debt Service	348.8	362.7	353.9	(8.8)	353.9	(8.8)	353.9	(8.8)
8	MBO Requirements	71.9	72.1	72.0	(0.0)	72.0	(0.0)	72.0	(0.0)
9	I&E / Reserve Deposits	51.3	62.6	71.9	9.3	67.9	5.3	61.7	(1.0)
10	Total Gross Revenue Req'ts	801.6	833.1	833.6	0.5	829.6	(3.5)	829.6	(3.5)
11	less: Investment Income	(8.4)	(7.9)	(18.1)	(10.2)	(18.1)	(10.2)	(18.1)	(10.2)
12	Net Revenue Requirements	793.1	825.3	815.5	(9.7)	811.5	(13.7)	811.5	(13.7)
13	Regional Bad Debt True-Up Adjustment	1.9	1.9	1.9	0.0	1.9	0.0	0.0	(1.9)
14	Accomodation for H/P Bad Debt Expense	4.2	4.2	4.2	0.0	4.2	0.0	3.4	(0.8)
15	Net Rev. Req't. from Charges to Customers	799.2	831.3	821.6	(9.7)	817.6	(13.7)	814.9	(16.4)
16	Revenue - Existing Charges	799.2	799.2	799.9	0.8	799.9	0.8	799.9	0.8
17	Additional Charge Revenue Needed	-	32.1	21.6	(10.5)	17.6	(14.5)	15.0	(17.1)
18	Charge Increase (14) / (13)	0.0%	4.0%	2.7%	-1.3%	2.2%	-1.8%	1.9%	-2.1%
19	Debt Service Coverage Ratio - Regional	1.37	1.39	1.42	0.04	1.41	0.02	1.39	(0.00)
	(a) Budgeted O&M Detail				~				
20	Water Operations	66.6	67.9	67.9	0.0	67.9	0.0	67.9	(0.0)
21	Sewer Operations	118.3	120.7	120.7	0.0	120.7	0.0	120.7	0.0
22	Centralized Services	99.0	101.0	101.0	0.0	101.0	0.0	106.9	5.9
23	Administrative Services	28.7	29.3	29.3	0.0	29.3	0.0	29.6	0.4
23									
24	Total	312.6	318.9	318.9	0.0	318.9	0.0	325.2	6.3

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#### **MEMORANDUM**

Highland Park Bad Debt Expense Review

December 10, 2018

To: Nicolette Bateson

From: Bart Foster

You have asked for observations regarding the level of Highland Park bad debt expense recognized in the FY 2018 audited financial statements, and a review of how such amounts impact charges to other GLWA Customers. The attached exhibit summarizes our initial analysis, which reflects an update of the approach we've been applying for several years. Herewith a brief introduction:

The year-end working papers supporting the FY 2018 audit reveal an "allowance for doubtful accounts" for Highland Park totaling approximately \$38.8 million, and a resulting FY 2018 bad debt expense of approximately \$3.46 million, as summarized below.

	Allowance for I	Doubtful Accts	
	6/30/17	<b>Change</b>	
			(a)
Sewer	28,837,730	30,938,511	2,100,781
Sewer Industrial Waste Control (b)	1,550,467	1,630,776	80,310
Water	4,941,777	6,221,815	1,280,039
Total (b)	35,329,973	38,791,102	3,461,129

- (a) The change in the allowance is equivalent to the bad debt expense during the fiscal year, unless any accounts receivable were written off during the year.
- (b) Includes a small amount not related to Highland Park.

The table indicates the amount for the Sewer System and Water System separately, and also identifies the portion of the Sewer bad debt expense related to Industrial Waste Control ("IWC") charges. Let's address each the Sewer and Water elements separately in terms of how they impact charges to GLWA Customers.

#### **Sewer**

At the risk of complicating the instant discussion, some historical background is important to provide context to the discussion.

Terms of the original 1995 <u>Sewer</u> Rate Settlement Agreement between the predecessor DWSD and the Suburban Wholesale Contract Customers stipulated that any bad debt expense incurred by City of Detroit Customers would be charged to Detroit Customers, and that any bad debt expense incurred by a Suburban Wholesale Customer would be charged to all Suburban Wholesale Customers. This requirement was originally implemented by including an estimated amount for bad debt expense for the Detroit customer class in prospective charges, and then "trueing it up" via the old Look-Back process. The same approach was applied to Suburban Wholesale Customer bad debt, although originally no prospective amounts were included in charges – rather the actual amounts were recovered via the Look-Back process.

The terms of the 1995 Rate Settlement Agreement were effectively made part of the service agreements when the Federal Court oversight ended, and the bad debt true up provisions were maintained as part of the Rate Simplification Initiative adopted for the FY 2015 sewer charges. However, the old Look-Back process was discontinued as part of Rate Simplification, and the only "true-up" notion carried forward was that related to prospective and actual bad debt expense. Upon formation of GLWA, the "bad debt true up" requirement was included in the water and sewer services agreement between GLWA and the City of Detroit. That agreement also introduced additional provisions to ensure collections from the Detroit customer class, including establishment of a Budget Stabilization Fund and monitoring of actual collections compared to actual revenue requirements.

When GLWA and DWSD representatives were negotiating the 2018 Memorandum of Understanding (the "2018 MOU") they recognized that the Budget Stabilization Fund and monthly monitoring aspects of the agreements were adequate to ensure full collections from the Detroit customer class. The parties realized that the bad debt true-up requirement served only to confuse the issue and create unnecessary volatility. The 2018 MOU eliminated that bad debt true-up aspect - as it relates to the Detroit customer class - from the agreements. However, the original true-up requirement for Suburban Wholesale bad debt expense technically remains in the service agreements with GLWA's Suburban Wholesale Sewer Customers. Which brings us to the discussion of Highland Park sewer bad debt expense . . .

Here is the nutshell summary of the impact on Customer charges, as illustrated in the attached exhibit.

- The FY 2018 Sewer bad debt expense for Highland Park was \$2.1 million compared to the \$4.39 million prospective amount included in Charges to suburban wholesale Customers; *See Lines 8 and 9*.
- This creates a \$2.29 million "credit" due to suburban wholesale Customer related to FY 2018 activity; *See Line 10*.

- Cumulatively since we started this approach after the old 5-year look-back was terminated, the running "true-up" total (the variance between prospective bad debt included in charges and actual bad debt experienced) is \$9.59 million; *See Line 5*.
  - This amount includes the \$17.3 million that remained at the conclusion of the old Look-Back process; *See Line 1*.
- GLWA had originally embarked on a "phased" recovery of the original amounts, designed to run through FY 2022; See Lines 11 through 14.
- Through the end of FY 2019, \$8.14 million will have been recognized via the true up amounts included in Charges; See Line 5, Column 5.
- This leaves a balance of \$1.45 million to recover; See Line 5, Column 6.
- Assuming approximate current collection rates continue, it appears that a credit adjustment totaling approximately \$1.45 million *could* occur for FY 2019; *See Line 6*.
- To the extent this assumption is accepted, I would recommend not including any trueup adjustment in the FY 2020 Charges – as the amounts charged to Customers related to Highland Park bad debt expense through FY 2019 would be precisely equivalent to the actual bad debt expense; *See Line 7, Column 6*.
- I would also consider increasing the assumed collection rate on prospective billings to Highland Park from 50% to 60%;

If accepted, these recommendations would reduce the amounts charged to Suburban Wholesale Sewer Customers related to Highland Park prospective and true-up bad debt from \$4.65 million (in the FY 2019 Charges) to \$2.2 million in the preliminary FY 2020 Charges. Given the apparent historical balance, and the fact that the original "true-up" notion has been removed from the agreement with the Detroit customer class, it would seem to be reasonable to revisit the application of the true-up concept for Suburban Wholesale bad debt expense.

#### <u>Water</u>

There are not any contractual nor other agreements on how bad debt expense related to water service to Highland Park should be treated. Starting with the FY 2017 Water service charges, we began effectively increasing charges to ALL Customers (including Detroit) by amounts equivalent to Highland Park's allocated revenue requirement. This approach recognized an assumption that the entire amount of billings for water service to Highland Park would go unpaid. The FY 2018 Water bad debt expense for Highland Park was \$1.28 million, which was consistent with the amount we included in the FY 2018 charges.

We are prepared to discuss this matter at your convenience.

Page 16

# Suburban Wholesale Sewer Bad Debt True-Up Adjustment - Highland Park

		(1)	(2)	(3)	(4)	(5)	(6)
	True-Up Recovery History						
		Balance to		Recovered via	True-Ups in:		Remaining
		Recover	<u>2017</u>	<u>2018</u>	<u>2019</u>	Total -> 2019	<b>Balance</b>
	From Line 10						
1	Pre-2016 Bad Debt "True-Up"	17,295,300	3,459,100	3,459,100	3,459,100	10,377,300	6,918,000
2	FY 2016 True-Up	(2,594,000)		(648,500)	(648,500)	(1,297,000)	(1,297,000)
3	FY 2017 True-Up	(2,817,800)			(939,300)	(939,300)	(1,878,500)
4	FY 2018 True-Up	(2,289,200)				0	(2,289,200)
5	Subtotal thru 2018	9,594,300	3,459,100	2,810,600	1,871,300	8,141,000	1,453,300
6	FY 2019 True-Up Estimate	(1,453,300)				0	(1,453,300)
7	Subtotal thru 2019	8,141,000	3,459,100	2,810,600	1,871,300	8,141,000	0
	True-Up Recovery Amounts						
	The op mooney randoms	Pre-2016	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	
8	Bad Debt in Prospective Charges	0 .	5,569,200	5,600,000	4,390,000	2,780,000	
9	Actual Bad Debt	17,295,300	2,975,200	2,782,200	2,100,800	1,326,700	**
10	True-Up Variance	17,295,300	(2,594,000)	(2,817,800)	(2,289,200)	(1,453,300)	
	Original Recovery Plan			_			
11	Years	5	4	3	Potentially e	exclude from	
12	Annual Adjustment	3,459,100	(648,500)	(939,300)	future True-Up	p applications	
13	Starting:	2017	2018	2019			

2022

2022

2022

Payment History	<b>Billings</b>	<b>Payments</b>	<u>Net</u>	Balance	Collection Rate
FY 2012				10,207,956	
FY 2013	4,987,635	2,206,211	2,781,424	12,989,380	44%
FY 2014	6,980,442	1,612,633	5,367,809	18,357,189	23%
FY 2015	5,553,123	1,444,623	4,108,500	22,465,689	26%
FY 2016	5,612,167	2,022,335	3,589,832	26,055,521	36%
FY 2017	5,802,000	2,309,186	3,492,814	29,548,335	40%
FY 2018	5,657,101	4,108,108	1,548,993	31,097,328	73%
Cumulative	34,592,468	13,703,096	20,889,372		40%

14

Through

<sup>\* \*</sup> Hypothetical projection designed to illustrate what FY 2019 results would have to be to achieve cumulative zero balance. Reflects collection rate of 76% compared to FY 2018 collection rate of 73%.

#### Regional Water System Capital Improvement Plan Projected Funding Sources

		Fiscal Year Ending June 30,							
	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>Total</u>			
Existing Improvement and Extension Funds (a)	242,939,700					242,939,700			
Existing Construction Funds (a)	140,308,100					140,308,100			
Current Revenues	41,939,600	44,181,400	44,059,300	59,580,200	67,694,100	257,454,600			
Bond Proceeds (b)	155,595,000	0	0	17,600,000	23,600,000	196,795,000			
less: Defeasance Requrements for Refunded Bonds	(181,333,500)								
less: Transfer to DWSD Construction Fund (c)	0	0	0	(16,544,000)	(22,184,000)	(38,728,000)			
less: Issuance Expenses (d)	25,738,500	<u>0</u>	<u>0</u>	(1,056,000)	(1,416,000)	23,266,500			
Net Bond Proceeds Available to Regional System	0	0	0	0	0	<u>0</u>			
State Drinking Water Revolving Fund Loans	10,500,000	20,459,000	29,529,000	46,022,000	30,722,000	137,232,000			
less: Transfer to DWSD Construction Fund (e)	(10,500,000)	(4,000,000)	(11,982,000)	<u>0</u>	<u>0</u>	(26,482,000)			
Net State DWRF Financing for Authority	0	16,459,000	17,547,000	46,022,000	30,722,000	110,750,000			
Investment Income	743,000	<u>462,000</u>	<u>408,000</u>	<u>252,000</u>	<u>500,000</u>	2,365,000			
<b>Total Funding Sources</b> (f)	425,930,400	61.102.400	62,014,300	105,854,200	98,916,100	753,817,400			

- (a) Estimated balance available June 30, 2018. (Applies only to Fiscal Year 2019).
- (b) The Series 2018 Bonds (in 2019). Also includes projected additional future bonds annually starting in 2022. Amounts reflect par value.
- (c) Assumes that DWSD CIP financing will be required from additional future bonds.
- (d) Includes Underwriter's Discount and other issuance expenses. For 2019, includes net effect of a bond premium, release of accrued debt service reserve amounts, and other issuance expenses. In future years, assumes amount required to fund debt service reserve fund.
- (e) Reflects DWRF Loans related to capital improvements to the DWSD Local System.
- (f) The difference between the total amount available to finance the capital program and the cost of the program represents funds totaling approximately \$94 million available to finance the capital program after 2023.

SOURCE: THE FOSTER GROUP, LLC.

#### **Limits on Future Borrowing**

If the Regional Water System does not generate sufficient Revenues to pay for the cost of capital improvements to the Regional Water System, or if other funds are not available, additional funds may have to be borrowed. In the event Additional Bonds are issued, such Additional Bonds would, in some cases, increase the debt service requirements to be serviced by the Revenues of the Regional Water System. In order for GLWA to issue Additional Bonds, certain conditions must be satisfied as described in greater detail above in "SECURITY AND SOURCES OF PAYMENT FOR THE SERIES 2018 BONDS—Issuance of Additional Bonds."

#### **Local Water System Capital Improvement Plan**

DWSD utilizes a five-year Capital Improvement Plan (the "Local CIP" or the "Local Water System CIP") to maintain and improve the reliability of the Local Water System, meet regulatory standards as well as to achieve greater operating and maintenance efficiency. The Local CIP must be approved by a supermajority of at least five members of the Board of Water Commissioners ("BOWC").

Pursuant to the Water and Sewer Services Agreement, no later than February 1 of each year, the City shall develop and provide the Authority with the Local Water System CIP. The Local Water System CIP must include the capital improvements and an estimate of the costs which the City plans to undertake

GLWA Wholesale System Capital Improvement Program Financing Plan	
GEWA WHOICE SYSTEM CAPITAL IMPLOYEMENT I TOGIAM FINANCING FIAM	
Line Fiscal Year Ending June 30,	
No. Item 2019 2020 2021 2022 2023 Total	
\$ \$ \$ \$ \$ \$	
Financing Requirements	
1 Budgeted Capital Outlay 5,957,000 4,810,900 4,431,800 15,047,000 4,271,200 34,517,5	00
2 Major Capital Improvement Program (a) 105,183,000 100,300,000 100,300,000 110,900,000 110,900,000 527,583,	
3 Total Financing Requirements 111,140,000 105,110,900 104,731,800 125,947,000 115,171,200 562,100,	
Financing Sources	
4 Balance in Improvement and Extension Fund (b) 96,762,200 102,225,900 90,842,100 89,182,900 91,842,300 96,762,20	00 (i)
Construction Bond Funds	
5 Beginning Balance (b) 99,814,100 45,653,900 49,568,300 49,778,800 49,728,300 99,814,100	00 (i)
Bond Proceeds	
6 Sewer System Revenue Bonds (c) 257,465,000 45,000,000 54,000,000 85,000,000 47,000,000 488,465,	00
7 Less: Defeasance Requirements (d) (212,092,500) NA NA NA NA (212,092,	00)
8 Less: Transfer to DWSD Const. Fund (e) (91,000,000) 0 0 0 (91,000,	00)
9 Less: Issuance Expenses (f) 45.627,500 (2,700,000) (3,240,000) (5,100,000) (2,820,000) 31,767.	00
10 Net Bond Proceeds Available 0 42,300,000 50,760,000 79,900,000 44,180,000 217,140,	00
11 State Clean Water Revolving Fund Loans 42,197,000 30,923,000 10,904,000 0 0 84,024,	00
12 Less: Transfer to DWSD Constr. Fund $\underline{0}$ $\underline{0}$ $\underline{0}$ $\underline{0}$ $\underline{0}$	<u>0</u>
13 Net State CWRF Financing for Authority 42,197,000 30,923,000 10,904,000 0 84,024,	00
14 Investment Income <u>513,800</u> <u>109,400</u> <u>187,500</u> <u>97,500</u> <u>279,200</u> <u>1,187,</u> .	<u>00</u>
15 Subtotal - Construction Bond Funds 142,524,900 118,986,300 111,419,800 129,776,300 94,187,500 402,165,	<u>00</u>
16 <b>Total Financing Sources Available</b> 239,287,100 221,212,200 202,261,900 218,959,200 186,029,800 498,927,7	90
Application of Financing Sources	
17 I&E Funds - Budgeted Capital Outlay 5,957,000 4,810,900 4,431,800 15,047,000 4,271,200 34,517,	00
18 I&E Funds - Specifically Designated I&E Proje 8,312,000 10,882,000 13,659,000 10,852,000 12,280,000 55,985,	00
19 I&E Funding of Debt Eligible Projects 0 20,000,000 25,000,000 20,000,000 55,000,000 120,000,	00
20 Project Expenditures from Construction Funds 96.871,000 69.418,000 61.641,000 80.048,000 43.620,000 351,598,1	00
21 <b>Total Financing Sources Applied</b> 111,140,000 105,110,900 104,731,800 125,947,000 115,171,200 562,100,9	00
Financing Sources Available for Future Requirements	
Improvement & Extension Funds	
22 Remaining Beginning Balance (g) 82,493,200 66,533,000 47,751,300 43,283,900 20,291,100	
23 Transfers from Sewer Receiving Fund 19,732,700 24,309,100 41,431,600 48,558,400 68,499,200 202,531,	00
24 Total Improvement & Extension Fund 102,225,900 90,842,100 89,182,900 91,842,300 88,790,300 88,790,30	00 (j)
25 Construction Bond Funds (h) 45,653,900 49,568,300 49,778,800 49,728,300 50,567,500 50,567,500	<u>90</u> (j)
26 Financing Sources Available for Future Req'ts 147,879,800 140,410,400 138,961,700 141,570,600 139,357,800 139,357,800	00 (j)

- (a) From Table 2.
- (b) Estimated balance available June 30, 2018 (applies only to Fiscal Year 2019).
- (c) Par value for the Series 2018 Bonds (for Fiscal Year 2019) and projected additional future bonds.
- (d) Amounts required to defease the 2018 Refunded Bonds.
- (e) Includes amounts from the Series 2018 Bonds to provide funding to the DWSD CIP for 2019 and 2020. Assumes that no additional DWSD CIP financing will be required from additional future bonds during the study period.
- (f) For 2019, includes net effect of a bond premium, release of accrued debt service reserve amounts, and other issuance expenses. For future years assumes amounts will be required from bond proceeds to fund debt service reserve fund.
- (g) Line 4 minus Lines 17 through 19.
- (h) Line 15 minus Line 20.
- (i) Total column reflects estimated balance available June 30, 2018.
- (j) Total column reflects estimated balance available June 30, 2023.

Lines 17 through 21 illustrate the projected application of financing sources to meet the Authority's CIP financing requirements. The strategic approach applies I&E Funds to finance budgeted capital outlay and certain specifically designated, short lived major capital improvements, as noted on Lines 17 and 18. In addition, a strategic application of I&E Funds is planned for a portion of the "debt eligible" projects in the CIP, as shown on Line 19. All other



FY 2020 & 2021 Biennial Budget and Five-Year Financial Plan Discussion Draft December 21, 2018

# **CONTENTS**

Section	Description		
A	Budget Cycle Timeline		
В	Overview		
C	Area and Group Budget & Financial Plan	<b>Area Chief</b>	FP&A Liaison
	Water Operations	Porter	Collins
	Energy, Research, and Innovation	Porter	Collins
	Facility Operations	Porter	Collins
	Fleet	Porter	Collins
	Field Services	Porter	Collins
	Systems Control	Porter	Collins
	Wastewater Operations	Mehram	Arbaugh
	Wastewater Pumping Stations	Porter	Collins
	Planning Services	Coffey	Arbaugh
	Chief Administrative & Compliance Officer	Wolfson	Hunsinger
	General Counsel	Brown	Hunsinger
	Information Technology	Small	Hunsinger
	Organizational Development	Conerway	Hunsinger
	Board of Directors	McCormick	Mancini
	Chief Executive Officer	McCormick	Mancini
	Security	Jones	Hunsinger
	Public Affairs	Zdrodowski	Hunsinger
	Financial Services	Bateson	Mancini

# **Financial Plan Calendar**

# FY 2020 and 2021 Biennial Budget & Five-Year Financial Planning Cycle

The Great Lakes Water Authority (GLWA) Financial Planning Cycle includes:

- 1. FY 2020 and 2021 Biennial Budget
- 2. FY 2020 through FY 2024 Five-Year Financial Plan
- 3. FY 2020 through FY 2024 Five-Year Capital Improvement Plan
- 4. FY 2020 Schedule of Revenues and Charges

The schedule below reflects planning for the comprehensive GLWA Financial Plan.

Date	Activity
Friday, September 14, 2018	Internal – Deadline for Cost Center Budget Request
Thursday, October 25, 2018	Customer Rollout Meeting #1 – Water & Sewer Capital Improvement Plan Update
Thursday, November 29, 2018	Customer Rollout Meeting #2 – Units of Service Update
Saturday, December 1, 2018	GLWA and DWSD (City) - Exchange shared services to be provided and related costs (Shared Services Agreement 5.4)
Friday, December 21, 2018	GLWA Audit Committee Meeting – Revenue Requirement Status Report
Tuesday, January 1, 2019	DWSD – Preliminary two-year budget forecast Including key assumptions and impact statement due to GLWA (Water and Sewer Services Agreement 5.3)
Friday, January 4, 2019	Special GLWA Audit Committee Meeting – Review of Proposed FY 2020 & FY 2021 Biennial Budget (Revenue Requirement) and Five-Year Financial Plan
Wednesday, January 9, 2019	GLWA Board Workshop – Review of Proposed FY 2020 and 2021 Biennial Budget (Revenue Requirement) and Five-Year Financial Plan
Thursday, January 10, 2019	Customer Rollout Meeting #3 – Proposed FY 2020 Revenue Requirement
Friday, January 18, 2019	GLWA Audit Committee Meeting – Regular Meeting
Wednesday, January 23, 2019	GLWA Board Meeting – Status Report FY 2020 Service Charges, FY 2020 and 2021 Biennial Budget (Revenue Requirement) and Five-Year Financial Plan

Thursday, January 24, 2019	Customer Rollout Meeting #4 – Proposed FY 2020 Service Charges
Friday, January 25, 2019	Publish notice of the hearing by publication in a newspaper of general circulation (B)
Friday, January 25, 2019	Mail Notice to Customers of Public Hearing to be held on February 27, 2019 (minimum 30 days prior to Act 279 Public Hearing) <b>(D)</b>
Friday, February 1, 2019	DWSD – Current capital improvement plan due to GLWA (Water and Sewer Services Agreement 5.3d(i))
Wednesday, February 27, 2019	GLWA Board Meeting – Public Hearing FY 2020 & FY 2021 Biennial Budget (A)
Wednesday, February 27, 2019	GLWA Board Meeting – Public Hearing FY 2020 Schedule of Revenues and Charges (Act 279, minimum 120 days before effective date) (C)
Wednesday, February 27, 2019	GLWA Board Meeting – Proposed Approval of the FY 2020 & FY 2021 Biennial Budget (A)
Wednesday, February 27, 2019	GLWA Board Meeting – Proposed Approval of FY 2020–2024 Capital Improvement Plan
Wednesday, February 27, 2019	GLWA Board Meeting – Public Hearing & Proposed Approval of FY 2020 Schedule of Revenues and Charges (Act 279, minimum 120 days before effective date) (C)
Thursday, February 28, 2019	Mail Notice to Customers of Approved Charges
Saturday, March 23, 2019	DWSD – Local system adopted biennial budget due to GLWA (Water and Sewer Services Agreement 5.3B)
Wednesday, May 1, 2019	DWSD – Local system provides direction to GLWA on how to apply lease payment (Water and Sewer Services Agreement 4.3)
Monday, July 1, 2019	GLWA – Effective date of FY 2020 and 2021 Biennial Budget, FY 2020 Schedule of Charges, and FY 2020-2024 Capital Improvement Plan

- **(A) thru (D)** The above schedule is designed to meet applicable statutory and contractual requirements with excerpts shown below.
  - A. Uniform Budgeting and Accounting Act, Act 2 of 1968, Section 141.434, "Before final passage of a general appropriations act by the legislative body, a public hearing shall be held as required by 1963 (2nd Ex Sess) PA 43, MCL 141.411 to 141.415, and the open meetings act, 1976 PA 267, MCL 15.261 to 15.275." (For purposes of Public Act 2, the GLWA Board is the legislative body.)

- B. Budget Hearings of Local Governments, Act 43 of 1963 (2nd Ex. Sess.), Section 141.412, "The local unit shall give notice of the hearing by publication in a newspaper of general circulation within the local unit at least 6 days before the hearing." (For purposes of Public Act 2, the GLWA Board is a local unit.)
- C. Home Rule City Act, Act 279 of 1909, Section 117.5e, "Municipal water or sewage system; annual audit; public hearing before proposed rate increase. A municipal water or sewage system established by a city incorporated under this act which serves more than 40% of the population of the state shall: ....(b) Hold at least 1 public hearing at least 120 days before a proposed rate increase is scheduled to take effect. Each hearing shall be conducted in compliance with Act No. 267 of the Public Acts of 1976, being sections 15.261 to 15.275 of the Michigan Compiled Laws. Notice of the time, date, and place of each hearing shall be given in the manner required by Act No. 267 of the Public Acts of 1976, shall be prominently printed in a daily newspaper of general circulation within the area, and shall be mailed to each city, village, or township served by the system not less than 30 days before each hearing. A final vote by the governing body of the city to implement a proposed rate increase shall not be taken until the hearings provided for in this subdivision are concluded and the results of those hearings are considered by the city's governing body." (Emphasis added)

It should be noted that the Home Rule City Act does not apply to GLWA. It is relevant to GLWA's planning cycle, however, as it is referenced in the *Wholesale Customer Model Water Contract* as noted below.

D. GLWA Wholesale Customer Model Water Contract Section 7.02 provides: "Notification of Rates. As soon as possible in the ratemaking process, the Board shall provide information on proposed rates and the draft data and information used in the calculation of proposed rates in a format that will enable Customer to assist in the ratemaking process. Not less than thirty calendar days prior to the hearing required by Act 279, the Board shall provide Customer with written notice of a proposed rate and the underlying data used to calculate the rate. The Board shall meet with Customer to review the rate and the data." (Emphasis added; Act 279 is the Home Rule City Act noted above.)

Great Lakes Water Authrority
Draft Operations & Maintenance Budget FY 2020 through FY 2024
As of 12.21.2018

Operations & Maintenance Expense	FY 2018	FY 2018	FY 2019 Board	FY 2019	FY 2019	FY 2020	FY 2020 \$	FY 2020 %	FY 2021	FY 2022	FY 2023	FY 2024
·	Amended	Activity thru	Adopted	Amended	Activity thru	Department	Increase/	Increase/	Department	Department	Department	Department
	Budget	06.30.2018	Budget	Budget	10.31.2018	Requested	(Decrease)	(Decrease)	Requested	Requested	Requested	Requested
Water Operating & Field Services	112,297,700	100,466,000	113,317,700	112,759,100	37,417,700	112,973,600	214,500	0.2%	114,479,400	116,088,300	117,775,300	119,139,300
Chief Operating Officer - Water Operations	399,700	332,100	477,900	477,900	100,800	359,600	(118,300)	-24.8%	362,100	364,400	366,900	368,600
882001 - COO - Water Operations & Fiel	399,700	332,100	477,900	477,900	100,800	359,600	(118,300)	-24.8%	362,100	364,400	366,900	368,600
Energy, Research & Innovation	612,800	613,300	1,463,900	1,463,900	550,500	2,040,000	576,100	39.4%	1,808,400	1,649,900	1,539,200	1,330,800
882501 - Energy, Research & Innovation	612,800	613,300	1,463,900	1,463,900	550,500	2,040,000	576,100	39.4%	1,808,400	1,649,900	1,539,200	1,330,800
Facility and Fleet Operations	9,882,900	9,859,900	10,163,400	10,163,400	2,350,000	10,572,700	409,300	4.0%	10,668,100	10,765,400	10,864,600	10,957,800
882421 - Facility Operations	7,764,800	7,774,100	7,581,500	7,581,500	1,479,800	8,538,200	956,700	12.6%	8,593,300	8,649,500	8,707,100	8,766,600
882422 - Fleet Operations	2,118,100	2,085,800	2,581,900	2,581,900	870,200	2,034,500	(547,400)	-21.2%	2,074,800	2,115,900	2,157,500	2,191,200
Field Services	16,599,300	16,571,000	20,796,400	20,237,800	8,822,700	20,493,100	255,300	1.3%	20,732,500	20,972,600	21,213,300	21,242,600
882401 - Field Services Director	3,700,300	3,682,200	5,689,600	-	-	-	-	#DIV/0!	-	-	-	-
882411 - Field Engineering	900,500	899,100	1,472,100	-	-	-	-	#DIV/0!	-	-	-	-
882431 - Field Service Operations	11,998,500	11,989,700	13,634,700	20,237,800	8,822,700	20,493,100	255,300	1.3%	20,732,500	20,972,600	21,213,300	21,242,600
Water Director	1,468,800	1,375,500	1,691,500	1,691,500	451,000	1,617,800	(73,700)	-4.4%	1,628,600	1,639,400	1,650,400	1,655,100
882101 - Water Director	1,468,800	1,375,500	1,691,500	1,691,500	451,000	1,617,800	(73,700)	-4.4%	1,628,600	1,639,400	1,650,400	1,655,100
Water Engineering	1,402,900	1,402,000	1,972,600	2,531,200	518,200	1,672,300	(858,900)	-33.9%	1,681,700	1,691,300	1,701,000	1,707,000
882111 - Water Engineering	1,402,900	1,402,000	1,972,600	2,531,200	518,200	1,672,300	(858,900)	-33.9%	1,681,700	1,691,300	1,701,000	1,707,000
Water Quality	1,392,500	1,239,500	1,797,500	1,797,500	388,500	1,856,600	59,100	3.3%	1,864,500	1,872,600	1,880,900	1,888,500
882121 - Water Quality	1,392,500	1,239,500	1,797,500	1,797,500	388,500	1,856,600	59,100	3.3%	1,864,500	1,872,600	1,880,900	1,888,500
Water Operations	56,886,600	47,631,600	48,739,500	48,739,500	17,412,600	50,135,500	1,396,000	2.9%	50,382,300	50,731,500	51,080,500	51,144,000
882131 - Water Works Park	15,137,000	8,618,600	9,281,600	9,281,600	2,633,500	9,043,400	(238,200)	-2.6%	9,086,600	9,130,000	9,173,800	9,188,400
882141 - Springwells Water Plant	10,563,900	10,047,600	10,213,100	10,213,100	5,630,900	12,413,800	2,200,700	21.5%	12,572,400	12,731,600	12,890,800	12,904,000
882151 - Northeast Water Plant	10,336,400	9,400,300	9,926,500	9,926,500	3,447,000	9,576,600	(349,900)	-3.5%	9,644,700	9,713,600	9,782,200	9,794,200
882161 - Southwest Water Plant	8,790,300	8,022,500	6,681,700	6,681,700	2,037,600	6,975,500	293,800	4.4%	6,924,700	6,974,400	7,023,800	7,035,500
882171 - Lake Huron Water Plant	12,059,000	11,542,600	12,636,600	12,636,600	3,663,600	12,126,200	(510,400)	-4.0%	12,153,900	12,181,900	12,209,900	12,221,900
Systems Operations Control	11,692,100	11,748,100	14,297,800	14,297,800	2,543,900	11,939,700	(2,358,100)	-16.5%	11,983,700	12,028,000	12,072,400	12,080,600
882301 - Systems Operations Control	11,692,100	11,732,200	14,297,800	14,297,800	2,543,900	11,939,700	(2,358,100)	-16.5%	11,983,700	12,028,000	12,072,400	12,080,600
892301 - Systems Operations Control	-	15,900	-	-	-	-	-	#DIV/0!	-	-	-	-
Pumping Stations	10,811,000	9,693,000	9,962,700	9,962,700	4,279,500	9,642,100	<b>(320,600)</b> 2,600	<b>-3.2%</b> 0.7%	9,742,600	9,842,800	9,943,100	9,943,100
882321 - Ford Rd Pumping Station	542,000	401,000	392,000	392,000	145,000	394,600	•		402,300	409,900	417,600	417,600
882322 - Eastside Pumping Station 882323 - Northwest Pumping Station	160,000 36,000	34,200 8,300	80,000 37,000	80,000 37,000	13,200 4,800	43,000 17,000	(37,000)	-46.3% -54.1%	43,100 17,000	43,100 17,000	43,200 17,000	43,200 17,000
882324 - West Service Center Pumping S	750,000	745,600	760,000	760,000	322,000	770,000	(20,000) 10,000	1.3%	785,000	800,000	815,000	815,000
882325 - Michigan Ave Pumping Station	129,900	83,500	119,000	119,000	29,300	100,800	(18,200)	-15.3%	102,800	104,600	106,600	106,600
882326 - West Chicago Rd Pumping Station	105,000	50,500	75,000	75,000	10,700	61,000	(14,000)	-13.5%	62,000	63,000	64,000	64,000
882327 - Electric Ave Pumping Station	45,700	18,700	50,000	50,000	2,900	35,500	(14,500)	-18.7%	36,000	36,500	37,000	37,000
882328 - Orion Township Pumping Station	180,000	71,200	100,000	100,000	22,800	81,500	(14,500)	-18.5%	83,000	84,500	86,000	86,000
882329 - North Service Center Pumping	2,450,000	2,094,500	2,230,000	2,230,000	805,100	2,127,000	(103,000)	-4.6%	2,129,000	2,131,000	2,133,000	2,133,000
882330 - Adams Road Pumping Station	550,000	545,100	575,000	575,000	177,100	520,000	(55,000)	-4.6%	520,000	520,000	520,000	520,000
882331 - Newburgh Pumping Station	395,000	375,800	390,000	390,000	140,100	382,300	(55,000)	-9.6%	389,600	396,900	404,200	404,200
882332 - Franklin Road Pumping Station	850,000	845,100	855,000	855,000	344,100	830,600	(24,400)	-2.0%	831,200	831,800	832,400	832,400
882333 - Roseville Pumping Station	-	643,100	30,200	30,200	344,100	10,300	(19,900)	-65.9%	10,400	10,500	10,600	10,600
882334 - Wick Road Pumping Station	561,400	558,200	540,500	540,500	227,600	571,000	30,500	5.6%	581,500	592,000	602,500	602,500
882335 - Joy Road Pumping Station	605,500	592,400	630,500	630,500	288,000	592,300	(38,200)	-6.1%	592,700	593,100	593,400	593,400
882336 - Schoolcraft Pumping Station	405,000	408,900	456,000	456,000	145,700	451,300	(4,700)	-1.0%	451,600	452,000	452,300	452,300

3.1 Simple AGT

Great Lakes Water Authrority
Draft Operations & Maintenance Budget FY 2020 through FY 2024
As of 12.21.2018

Operations & Maintenance Expense	FY 2018	FY 2018	FY 2019 Board	FY 2019	FY 2019	FY 2020	FY 2020 \$	FY 2020 %	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Activity thru	Adopted	Amended	Activity thru	Department	Increase/	Increase/	Department	Department	Department	Department
	Budget	06.30.2018	Budget	Budget	10.31.2018	Requested	(Decrease)	(Decrease)	Requested	Requested	Requested	Requested
882337 - Ypsilanti Pumping Station	391,500	375,000	351,500	351,500	117,400	353,300	1,800	0.5%	360,200	367,000	373,800	373,800
882338 - Imlay Pumping Station	2,105,000	2,091,300	1,775,000	1,775,000	1,265,300	1,805,300	30,300	1.7%	1,840,600	1,875,900	1,911,200	1,911,200
882339 - Rochester Pumping Station	283,000	182,400	235,000	235,000	163,400	224,200	(10,800)	-4.6%	228,400	232,600	236,800	236,800
882340 - Haggerty Road Pumping Statio	266,000	211,300	281,000	281,000	55,000	271,100	(9,900)	-3.5%	276,200	281,400	286,500	286,500
Water System Operations Unallocated	1,149,100	-	1,954,500	1,395,900	-	2,644,200	1,248,300	89.4%	3,624,900	4,530,400	5,463,000	6,821,200
887601 - Water System Operations Unal	1,149,100	-	1,954,500	1,395,900	-	2,644,200	1,248,300	89.4%	3,624,900	4,530,400	5,463,000	6,821,200
Wastewater Operating Services	129,306,100	115,134,800	118,318,900	118,318,900	36,831,600	120,685,300	2,366,400	2.0%	123,099,000	125,561,100	128,072,400	130,633,800
Chief Operating Officer - Wastewater Oper	1,700	400	1,688,300	1,688,300	457,000	2,511,100	822,800	48.7%	2,538,200	2,566,600	2,594,700	2,723,200
892001 - Chief Operating Officer Wastev	1,700	400	1,688,300	1,688,300	457,000	2,511,100	822,800	48.7%	2,538,200	2,566,600	2,594,700	2,723,200
Chief Operating Officer - Wastewater	1,700	400	1,688,300	1,688,300	457,000	2,511,100	822,800	48.7%	2,538,200	2,566,600	2,594,700	2,723,200
Legal Settlement & Claims - Operating	5,200,000	5,103,900	-	-	-	-	-	#DIV/0!	-	-	-	-
896901 - Legal Settlement & Claims - Op	5,200,000	5,103,900	-	-	-	-	-	#DIV/0!	-	-	-	-
Wastewater Director	2,611,400	2,384,200	4,359,500	4,359,500	1,146,800	5,242,300	882,800	20.3%	5,422,600	5,039,900	4,887,000	4,719,500
892201 - Wastewater Director	2,611,400	2,384,200	4,359,500	4,359,500	1,146,800	5,242,300	882,800	20.3%	5,422,600	5,039,900	4,887,000	4,719,500
Wastewater Engineering	3,014,300	2,537,900	2,572,700	2,572,700	937,100	2,262,000	(310,700)	-12.1%	1,965,300	2,004,300	2,227,700	1,965,800
892211 - Wastewater Engineering	3,014,300	2,537,900	2,572,700	2,572,700	937,100	2,262,000	(310,700)	-12.1%	1,965,300	2,004,300	2,227,700	1,965,800
Wastewater Operations	97,867,700	88,686,300	83,277,000	83,277,000	27,454,800	85,336,800	2,059,800	2.5%	87,155,300	88,742,500	89,894,100	91,831,300
892221 - Wastewater Operations	63,964,900	56,206,700	28,161,300	28,161,300	10,878,000	29,151,900	990,600	3.5%	30,742,300	31,676,700	32,239,200	32,807,800
892222 - Wastewater Process Control	1,684,900	1,081,200	4,526,800	4,526,800	1,229,800	4,944,700	417,900	9.2%	4,507,200	4,835,100	4,824,500	5,388,200
892223 - Wastewater Primary Process	2,845,400	2,615,700	6,594,800	6,594,800	2,401,400	7,463,600	868,800	13.2%	7,480,000	7,437,300	7,522,600	7,613,700
892224 - Wastewater Secondary Process	6,219,600	6,198,500	11,567,100	11,567,100	3,220,600	11,099,900	(467,200)	-4.0%	11,107,000	11,155,800	11,264,800	11,573,200
892225 - Wastewater Dewatering Proces	2,248,300	1,990,000	6,095,900	6,095,900	1,601,900	5,636,700	(459,200)	-7.5%	5,851,200	5,971,700	6,026,800	6,106,400
892226 - Wastewater Incineration Proce	2,108,100	1,812,100	5,675,400	5,675,400	1,441,700	5,274,000	(401,400)	-7.1%	5,190,500	5,157,700	5,172,800	5,233,800
892227 - BDF, COF & Hauling	18,796,500	18,782,100	20,655,700	20,655,700	6,681,400	21,766,000	1,110,300	5.4%	22,277,100	22,508,200	22,843,400	23,108,200
Wastewater Laboratories	927,700	884,300	3,761,200	3,761,200	1,402,600	4,148,900	387,700	10.3%	3,812,000	3,847,400	3,867,300	3,897,000
892235 - Wastewater Laboratories	927,700	884,300	3,761,200	3,761,200	1,402,600	4,148,900	387,700	10.3%	3,812,000	3,847,400	3,867,300	3,897,000
Industrial Waste Control	5,429,100	5,162,600	2,792,300	2,792,300	835,800	2,407,100	(385,200)	-13.8%	2,443,700	2,446,400	2,388,700	2,360,500
892231 - Industrial Waste Control	5,429,100	5,162,600	2,792,300	2,792,300	835,800	2,407,100	(385,200)	-13.8%	2,443,700	2,446,400	2,388,700	2,360,500
Wastewater System Operations Unallocate	1,161,500	-	2,440,500	2,440,500	-	3,264,900	824,400	33.8%	3,976,300	7,050,800	7,636,600	8,696,600
897600 - Wastewater System Operation	1,161,500	-	2,440,500	2,440,500	-	3,264,900	824,400	33.8%	3,976,300	7,050,800	7,636,600	8,696,600
Wastewater System Operations Unal	1,161,500	-	2,440,500	2,440,500	-	3,264,900	824,400	33.8%	3,976,300	7,050,800	7,636,600	8,696,600
<b>Combined Sewer Overflow Facilities</b>	9,942,000	7,744,300	14,094,200	14,094,200	3,604,300	12,585,600	(1,508,600)	-10.7%	12,826,500	10,871,500	11,552,100	11,415,700
892270 - Combined Sewer Overflow	3,017,400	2,396,700	5,798,300	5,798,300	1,131,300	5,846,900	48,600	0.8%	6,130,800	6,419,400	6,793,500	6,818,200
892271 - Puritan Fenkell Combined Sew	317,700	242,900	227,100	227,100	103,300	293,000	65,900	29.0%	287,400	294,600	302,200	309,500
892272 - 7 Mile Combined Sewer Overfl	230,400	154,000	176,000	176,000	71,500	130,300	(45,700)	-26.0%	131,600	133,600	136,500	138,100
892273 - Hubble Southfield CSO	637,800	572,800	464,800	464,800	166,800	472,400	7,600	1.6%	475,200	479,300	487,500	490,300
892274 - Leib Combined Sewer Overflov	400,100	230,400	258,700	258,700	140,200	145,800	(112,900)	-43.6%	148,300	151,600	154,700	158,300
892275 - St Aubin Combined Sewer Ove	316,200	232,200	294,700	294,700	103,400	165,900	(128,800)	-43.7%	148,400	151,100	156,800	152,400
892276 - Connor Creek Combined Sewe	1,529,600	1,483,700	1,540,200	1,540,200	406,800	1,250,100	(290,100)	-18.8%	1,255,000	1,261,600	1,294,100	1,299,600
892277 - Baby Creek Combined Sewer C	1,920,900	1,067,400	3,482,100	3,482,100	1,033,200	2,974,900	(507,200)	-14.6%	2,905,900	677,000	708,200	728,100
892278 - Oakwood Combined Sewer Ov	1,492,700	1,364,400	1,714,700	1,714,700	410,400	1,306,300	(408,400)	-23.8%	1,343,800	1,303,100	1,518,600	1,321,200
892279 - Belle Isle Combined Sewer Ove	79,200	(200)	137,600	137,600	37,400	-	(137,600)	-100.0%	100	200	-	-,,200
Wastewater Fire Damage	-	-	-	-	35,100	-	-	#DIV/0!	-	-	_	_
892228 - Wastewater Fire Damage	_	_	_	_	35,100	_	_	#DIV/0!	_	_	_	_

3.1 Simple AGT

Great Lakes Water Authrority
Draft Operations & Maintenance Budget FY 2020 through FY 2024
As of 12.21.2018

Operations & Maintenance Expense	FY 2018	FY 2018	FY 2019 Board	FY 2019	FY 2019	FY 2020	FY 2020 \$	FY 2020 %	FY 2021	FY 2022	FY 2023	FY 2024
	Amended Budget	Activity thru 06.30.2018	Adopted	Amended	Activity thru 10.31.2018	Department	Increase/	Increase/	Department	Department	Department	Department
Wastewater Fire Damage	- buugei	-	Budget -	Budget -	35,100	Requested -	(Decrease)	(Decrease) #DIV/0!	Requested	Requested -	Requested -	Requested
Pumping Stations	3,150,700	2,630,900	3,333,200	3,333,200	958,100	2,926,600	(406,600)	-12.2%	2,959,100	2,991,700	3,024,200	3,024,200
892342 - Belle Isle Pumping Station	44,200	-,000,000	80,000	80,000	19,200	-	(80,000)	-100.0%	-,555,255	-,552,755	-	-
892343 - Blue Hill Pumping Station	8,500	_	80,000	80,000	11,000	_	(80,000)	-100.0%	_	_	_	_
892345 - Conner Pumping Station	887,000	831,900	897,000	897,000	279,500	899,400	2,400	0.3%	916,900	934,300	951,800	951,800
892346 - Fairview Pumping Station	685,000	616,100	571,000	571,000	125,700	680,200	109,200	19.1%	690,400	700,600	710,800	710,800
892347 - Fischer Pumping Station	(6,000)	-	40,000	40,000	3,500	-	(40,000)	-100.0%	-	-	-	-
892348 - Fox Creek Pumping Station	15,000	1,500	18,200	18,200	400	18,500	300	1.6%	18,900	19,300	19,700	19,700
892349 - Freud Pumping Station	295,000	223,300	356,000	356,000	85,300	281,600	(74,400)	-20.9%	282,200	282,900	283,500	283,500
892350 - Northeast Pumping Station	1,036,000	792,200	1,018,000	1,018,000	323,700	850,000	(168,000)	-16.5%	850,000	850,000	850,000	850,000
892351 - Oakwood Pumping Station	193,000	165,900	193,000	193,000	51,900	196,900	3,900	2.0%	200,700	204,600	208,400	208,400
892352 - Woodmere Pumping Station	(7,000)	-	80,000	80,000	57,900	-	(80,000)	-100.0%	-	-	-	-
Planning Services	14,416,700	13,588,400	15,514,400	15,514,400	4,708,500	19,161,500	3,647,100	23.5%	18,420,100	22,432,200	24,078,100	25,566,200
Capital Improvement Planning	-	-	693,000	693,000	1,500	1,943,900	1,250,900	180.5%	2,171,700	1,742,200	2,640,200	2,680,000
886601 - Capital Improvement Planning	-	-	693,000	693,000	1,500	1,943,900	1,250,900	180.5%	2,171,700	1,742,200	2,640,200	2,680,000
Chief Planning Officer	886,600	886,700	390,600	390,600	164,900	408,900	18,300	4.7%	525,000	523,100	527,000	527,700
886001 - Chief Planning Officer	886,600	886,700	390,600	390,600	164,900	408,900	18,300	4.7%	525,000	523,100	527,000	527,700
Planning Services	1,907,700	1,907,400	2,534,800	2,534,800	826,700	4,990,100	2,455,300	96.9%	4,766,000	8,397,500	9,915,700	11,133,400
886201 - Asset Management	1,711,300	1,711,200	2,534,800	2,534,800	826,700	4,990,100	2,455,300	96.9%	4,766,000	8,397,500	9,915,700	11,133,400
886301 - Energy Management	196,400	196,200	-	-	-	-	-	#DIV/0!	-	-	-	-
886501 - Research Innovation	-	-	-	-	-	-	-	#DIV/0!	-	-	-	-
896201 - Asset Mgt & Capital Improvem	-	-	-	-	-	-	-	#DIV/0!	-	-	-	-
System Analytics	-	10,300	-	-	-	-	-	#DIV/0!	-	-	-	-
896401 - System Analytics	-	10,300	-	-	-	-	-	#DIV/0!	-	-	-	-
Systems Analytics	7,335,800	6,497,400	7,501,800	7,501,800	1,946,100	9,385,500	1,883,700	25.1%	8,299,200	8,914,300	8,535,800	8,647,300
886401 - Systems Analytics	7,335,800	6,497,400	7,501,800	7,501,800	1,946,100	9,385,500	1,883,700	25.1%	8,299,200	8,914,300	8,535,800	8,647,300
Systems Planning	4,286,600	4,286,600	4,394,200	4,394,200	1,769,300	2,433,100	(1,961,100)	-44.6%	2,658,200	2,855,100	2,459,400	2,577,800
886101 - Systems Planning	4,286,600	4,286,600	4,394,200	4,394,200	1,769,300	2,433,100	(1,961,100)	-44.6%	2,658,200	2,855,100	2,459,400	2,577,800
Administrative & Compliance Services	36,588,600	36,437,300	41,654,800	41,654,800	11,094,800	48,827,300	7,172,500	17.2%	51,519,600	52,663,700	51,853,300	52,999,600
Chief Administrative Officer	561,400	561,400	880,700	1,105,200	231,300	936,600	(168,600)	-15.3%	944,400	952,300	960,400	975,300
883001 - Chief Administrative Officer	561,400	561,400	880,700	1,105,200	231,300	936,600	(168,600)	-15.3%	944,400	952,300	960,400	975,300
General Counsel	4,760,600	4,761,000	2,994,000	2,769,500	793,300	3,038,900	269,400	9.7%	3,084,500	3,131,000	3,178,300	3,276,900
883101 - General Counsel	4,760,600	4,761,000	2,994,000	2,769,500	793,300	3,038,900	269,400	9.7%	3,084,500	3,131,000	3,178,300	3,276,900
Information Technology	24,473,600	24,322,400	30,507,800	30,507,800	7,892,300	36,254,300	5,746,500	18.8%	38,630,400	39,640,600	38,689,600	39,587,400
883301 - Office of the CIO	437,900	437,700	(236,500)	(236,500)	168,700	975,800	1,212,300	-512.6%	592,500	596,400	600,300	604,100
883311 - InfoTechnology Project Manag	1,102,600	1,102,400	(671,400)	(671,400)	317,400	1,622,600	2,294,000	-341.7%	1,634,700	1,647,200	1,659,700	1,672,400
883321 - Info Technology Service Delive	2,136,300	2,136,300	3,371,900	3,371,900	573,800	3,807,700	435,800	12.9%	3,854,200	3,898,500	3,830,200	3,888,200
883331 - Info Technology Infrastructure	14,352,300	14,264,300	18,357,800	18,357,800	5,566,400	19,432,400	1,074,600	5.9%	21,640,600	22,431,100	22,375,700	23,318,800
883341 - Info Technology Enterprise Appl	1,075,400	1,074,900	3,193,200	3,193,200	367,900	4,098,700	905,500	28.4%	4,063,700	4,211,100	4,251,900	4,222,600
883351 - Info Technology Business Appli	5,043,100	4,980,200	6,001,100	6,001,100	1,360,400	5,913,900	(87,200)	-1.5%	6,408,200	6,417,700	5,531,100	5,438,400
883361 - Info Technology Security & Risl	326,000	326,600	491,700 -	491,700	(462,300)	403,200	(88,500)	-18.0% #DIV/OI	436,500 -	438,600	440,700	442,900
893301 - Information Technology					- 909 000			#DIV/0!				
Organizational Development	<b>2,615,300</b>	<b>2,615,300</b>	<b>3,132,900</b>	<b>3,132,900</b>	898,900	4,366,400	1,233,500	<b>39.4%</b> 39.4%	<b>4,402,400</b>	4,428,200	<b>4,459,700</b>	<b>4,540,100</b>
883201 - Organizational Development	2,615,300	2,615,300	3,132,900	3,132,900	898,900	4,366,400	1,233,500	39.4%	4,402,400	4,428,200	4,459,700	4,540,100

3.1 Simple AGT

Great Lakes Water Authrority
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As of 12.21.2018

Operations & Maintenance Expense	FY 2018	FY 2018	FY 2019 Board	FY 2019	FY 2019	FY 2020	FY 2020 \$	FY 2020 %	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Activity thru	Adopted	Amended	Activity thru	Department	Increase/	Increase/	Department	Department	Department	Department
	Budget	06.30.2018	Budget	Budget	10.31.2018	Requested	(Decrease)	(Decrease)	Requested	Requested	Requested	Requested
Risk Management and Safety	4,177,700	4,177,200	4,139,400	4,139,400	1,279,000	4,231,100	91,700	2.2%	4,457,900	4,511,600	4,565,300	4,619,900
883401 - Enterprise Risk Management a	1,552,700	1,552,800	1,775,400	1,775,400	330,500	1,819,800	44,400	2.5%	1,998,400	2,002,900	2,006,400	2,009,800
883411 - Enterprise Risk Mgt. Insurance	2,625,000	2,624,400	2,364,000	2,364,000	948,500	2,411,300	47,300	2.0%	2,459,500	2,508,700	2,558,900	2,610,100
Chief Executive Officer	6,610,300	6,620,000	7,976,500	7,976,500	2,603,500	8,020,300	43,800	0.5%	8,172,500	8,083,600	8,138,000	8,158,900
Board of Directors	129,000	129,100	198,500	198,500	34,700	202,400	3,900	2.0%	206,500	210,600	214,800	219,100
881151 - Board of Directors	129,000	129,100	198,500	198,500	34,700	202,400	3,900	2.0%	206,500	210,600	214,800	219,100
Chief Executive Officer	501,000	501,100	616,500	616,500	176,600	632,700	16,200	2.6%	639,300	646,600	653,100	659,900
881001 - Chief Executive Officer	501,000	501,100	616,500	616,500	176,600	632,700	16,200	2.6%	639,300	646,600	653,100	659,900
891001 - Chief Executive Officer	-	-	-	-	-	-	-	#DIV/0!	-	-	-	-
Chief Security & Integrity Officer	4,951,400	4,961,100	5,900,000	5,900,000	2,050,800	5,799,100	(100,900)	-1.7%	5,912,000	5,833,500	5,861,000	5,872,600
881201 - Security and Integrity	4,548,600	4,551,000	4,552,800	4,552,800	1,479,800	4,253,600	(299,200)	-6.6%	4,289,700	4,276,300	4,299,100	4,322,800
881202 - HazMat	402,800	402,700	1,347,200	1,347,200	571,000	1,545,500	198,300	14.7%	1,622,300	1,557,200	1,561,900	1,549,800
891202 - HazMat	-	7,400	-	-	-	-	-	#DIV/0!	-	-	-	-
Public Affairs	1,028,900	1,028,700	1,261,500	1,261,500	341,400	1,386,100	124,600	9.9%	1,414,700	1,392,900	1,409,100	1,407,300

Page 27



#### **Highlights**

The Water Operations Area presently is leading GLWA in several strategic initiatives.

- ❖ Maintain 100% water quality compliance Delivery of pure, safe drinking water is an essential part of the GLWA's mission
- ❖ Restructuring Water Production Continue implementation of 2015 Water Master Plan Update
- ❖ Improve Capital Project Delivery Initiate Water Main Condition Assessment Program to provide reliable water service
- Transmission Assessment & Rehabilitation
   Complete the designs and begin construction of water mains
- ❖ Improve Operational Reliability through Automation and Equipment Maintenance Plan implementation of water automation Support asset management to improve maintenance activities

#### **Organization**

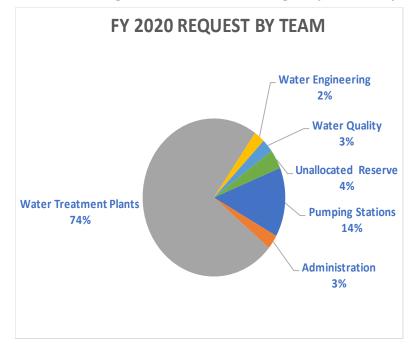
The GLWA Water Operations Area consists of four teams that contribute to producing and delivering water of unquestionable quality to nearly 40% of the State of Michigan's population while meeting or exceeding all state, federal, local, and department standards for quality and safety.

#### Administration

- Chief Operating Officer –
   Water Operations and
   Field Services
- Water Director
- Overall budget management including unallocated reserve
- **❖** Water Engineering
- Water Quality
- **\*** Water Treatment Plants
  - Water Works Park
  - o Springwells WTP
  - Northeast WTP
  - Southwest WTP
  - o Lake Huron WTP



 twenty (20) water booster stations (including Roseville Pump Station) throughout the regional service area



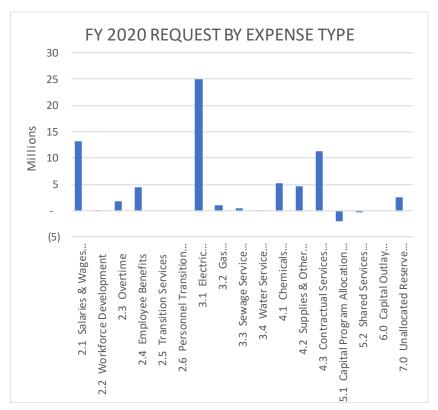


### **Expense Categories**

There are three major categories of Water Operations expenses in the Operations and Maintenance Budget as listed below.

- Utilities Electric
- Personnel Costs
- Contractual Services

The Utilities – Electric is the highest expense category for Water Operations. Increased water demand leads to increased energy consumption in order to transport enough safe drinking water to the GLWA's communities. Energy consumption is dependent on flow rate, total pressure, climate (more intense rainfall), and overall pump efficiency.



The Water Operations Area is required to obtain a consistent level of personnel in order to avoid staff fatigue, overtime cost incurred and to assure the highest level of water quality. Accordingly, personnel is the second highest expense category.

Contractual Services is the third highest expense category for Water Operations. The level of contractual services reflects the decision to contract for services such as HVAC maintenance, janitorial services, ovation support, alum sludge hauling and corrosion control optimization studies.

#### **Biennial Budget Request**



The biennial budget reflects an overall increase in FY 2020 as a result of the ramp up of alum sludge hauling contractual services for the 5 water treatment plants.

#### Biennial Budget Request by Expense Category

Expense Category	Ţ Am	FY 2018 lended Budget	2018 Activity ru 06.30.2018	FY 2019 mended Budget	FY	2020 Department Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance	FY 2021 Department Requested
2.0 Personnel	\$	17,797,700	\$ 17,554,200	\$ 19,125,600	\$	19,477,100	\$ 890,800	4.8%	\$ 19,565,400
3.1 Electric		26,566,200	25,439,600	26,232,000		25,068,500	(1,163,500)	-4.4%	25,252,000
3.2 Gas		1,245,300	937,000	1,132,600		1,060,100	(72,500)	-6.4%	1,068,800
3.3 Sewage Service		719,700	423,600	710,000		527,000	(183,000)	-25.8%	531,200
3.4 Water Service		59,900	900	60,200		23,300	(36,900)	-61.3%	23,500
4.1 Chemicals		5,198,300	4,804,700	5,674,100		5,174,700	(499,400)	-8.8%	5,222,300
4.2 Supplies & Other		5,577,400	4,053,100	5,271,900		4,739,900	(490,000)	-9.4%	4,768,200
4.3 Contractual Services		9,696,500	9,168,600	7,926,200		11,290,200	3,364,000	42.4%	11,320,700
5.1 Capital Program Allocation		(759,600)	(582,700)	(782,300)		(1,983,900)	(1,224,300)	161.2%	(1,995,400)
5.2 Shared Services		(150,000)	(141,100)	(150,000)		(93,000)	57,000	-38.0%	(94,900)
6.0 Capital Outlay		6,410,100	15,800	-		•	-	N/A	-
7.0 Unallocated Reserve		1,149,100	-	1,395,900		2,644,200	689,700	35.3%	3,624,900
Grand Total	\$	73,510,600	\$ 61,673,700	\$ 66,596,200	\$	67,928,100	\$ 1,331,900	2.0%	\$ 69,286,700

#### Biennial Budget Request by Team

							FY 2020	FY 2020	FY 2020	FY 2021
		FY 2018	FY	2018 Activity		FY 2019	Department	Dollar	Percent	Department
Team	,T A	mended Budget	thi	ru 06.30.2018	Am	ended Budget	Requested	Variance	Variance	Requested
Pumping Stations	5	10,811,000	\$	9,693,000	\$	9,962,700	\$ 9,642,100	\$ (320,600)	-3.2%	\$ 9,742,600
Administration		1,868,500		1,707,600		2,169,400	1,977,400	(192,000)	-8.9%	1,990,700
Water Treatment Plants		56,886,600		47,631,600		48,739,500	50,135,500	1,396,000	2.9%	50,382,300
Water Engineering		1,402,900		1,402,000		2,531,200	1,672,300	(300,300)	-15.2%	1,681,700
Water Quality		1,392,500		1,239,500		1,797,500	1,856,600	59,100	3.3%	1,864,500
Water System Operations Unallocated		1,149,100		-		1,395,900	2,644,200	689,700	35.3%	3,624,900
Grand Total	5	73,510,600	\$	61,673,700	\$	66,596,200	\$ 67,928,100	\$ 1,331,900	2.0%	\$ 69,286,700

#### **Personnel Budget**

Water system operations personnel consists of 224 positions and is largely comprised of staffing at the five water treatment plants at 163 positions for FY 2020. Water Quality, at 26 positions, and Water Engineering, at 24 positions, are the second and third largest categories for FY 2020.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.



# Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennia	Budget		Forecast	
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	Staffing Plan						
Water System Operations	209.00	224.00	224.00	224.00	224.00	224.00	224.00
Chief Operating Officer - Water Operations & Field Services	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Water Director	7.00	9.00	9.00	9.00	9.00	9.00	9.00
Water Engineering	19.00	24.00	24.00	24.00	24.00	24.00	24.00
Water Quality	18.00	26.00	26.00	26.00	26.00	26.00	26.00
Subtotal Water Treatment Plants	163.00	163.00	163.00	163.00	163.00	163.00	163.00
Water Works Park	36.00	37.00	37.00	37.00	37.00	37.00	37.00
Springwells Water Plant	35.00	35.00	36.00	36.00	36.00	36.00	36.00
Northeast Water Plant	32.00	32.00	30.00	30.00	30.00	30.00	30.00
Southwest Water Plant	29.00	29.00	30.00	30.00	30.00	30.00	30.00
Lake Huron Water Plant	31.00	30.00	30.00	30.00	30.00	30.00	30.00

Full-time Equivalents - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### *Full-time Equivalents*

	Prior Year	Current Year	Biennial	Budget		Forecast	
	FY 2018	FY 2019					
	Approved	Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's
Water System Operations	209.00	224.00	224.00	224.00	224.00	224.00	224.00
Chief Operating Officer - Water Operations & Field Services	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Water Director	7.00	9.00	9.00	9.00	9.00	9.00	9.00
Water Engineering	19.00	24.00	24.00	24.00	24.00	24.00	24.00
Water Quality	18.00	26.00	26.00	26.00	26.00	26.00	26.00
Subtotal Water Treatment Plants	163.00	163.00	163.00	163.00	163.00	163.00	163.00
Water Works Park	36.00	37.00	37.00	37.00	37.00	37.00	37.00
Springwells Water Plant	35.00	35.00	36.00	36.00	36.00	36.00	36.00
Northeast Water Plant	32.00	32.00	30.00	30.00	30.00	30.00	30.00
Southwest Water Plant	29.00	29.00	30.00	30.00	30.00	30.00	30.00
Lake Huron Water Plant	31.00	30.00	30.00	30.00	30.00	30.00	30.00

*Personnel Budget* - The table below presents the Water Operations personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.



# Personnel Budget

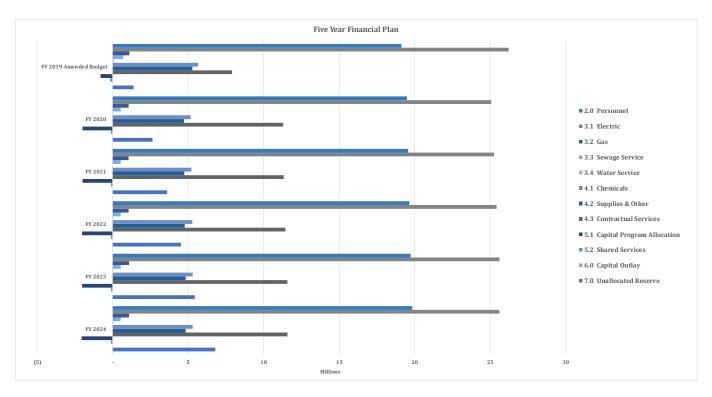
	Prior Year	Current Year	Biennial	Budget	Forecast		
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Approved	Approved	Requested	Requested	Requested	Requested	Requested
Cost Center	Budget						
Water System Operations	\$ 18,343,400	\$ 19,125,600	\$ 19,477,100	\$ 19,565,400	\$ 19,655,400	\$ 19,747,100	\$ 19,840,700
Chief Operating Officer - Water Operations & Field Services	305,600	391,400	294,800	296,000	297,200	298,500	299,800
Water Director	776,800	969,300	1,005,200	1,009,700	1,014,200	1,018,900	1,023,600
Water Engineering	1,506,200	2,236,400	2,807,700	2,819,700	2,832,000	2,844,500	2,857,300
Water Quality	1,319,100	1,717,200	1,722,600	1,731,600	1,740,800	1,750,200	1,759,800
Subtotal Water Treatment Plants	14,435,700	13,811,300	13,646,800	13,708,400	13,771,200	13,835,000	13,900,200
Water Works Park	3,232,400	3,198,200	3,142,900	3,156,700	3,170,800	3,185,200	3,199,800
Springwells Water Plant	3,018,600	2,912,300	2,915,600	2,929,100	2,942,800	2,956,800	2,971,100
Northeast Water Plant	2,833,700	2,623,200	2,552,000	2,563,600	2,575,500	2,587,500	2,599,800
Southwest Water Plant	2,666,700	2,461,100	2,453,800	2,465,100	2,476,700	2,488,400	2,500,400
Lake Huron Water Plant	2,684,300	2,616,500	2,582,500	2,593,900	2,605,400	2,617,100	2,629,100

### **Five Year Financial Plan**

# Five-Year Financial Plan by Expense Category

		FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022		FY 2023	FY 2024
		Amended	Department	Dollar	Percent	Department	Department	I	Department	Department
Expense Category	"T	Budget	Requested	Variance	Variance	Requested	Requested		Requested	Requested
2.0 Personnel	\$	19,125,600	\$ 19,477,100	\$ 890,800	4.8%	\$ 19,565,400	\$ 19,655,400	\$	19,747,100	\$ 19,840,700
3.1 Electric		26,232,000	25,068,500	(1,163,500)	-4.4%	25,252,000	25,435,500		25,619,000	25,619,000
3.2 Gas		1,132,600	1,060,100	(72,500)	-6.4%	1,068,800	1,077,500		1,086,100	1,086,100
3.3 Sewage Service		710,000	527,000	(183,000)	-25.8%	531,200	535,400		539,600	539,600
3.4 Water Service		60,200	23,300	(36,900)	-61.3%	23,500	23,600		23,800	23,800
4.1 Chemicals		5,674,100	5,174,700	(499,400)	-8.8%	5,222,300	5,270,000		5,317,700	5,317,700
4.2 Supplies & Other		5,271,900	4,739,900	(490,000)	-9.4%	4,768,200	4,797,100		4,825,200	4,825,200
4.3 Contractual Services		7,926,200	11,290,200	3,364,000	42.4%	11,320,700	11,451,700		11,582,300	11,581,600
5.1 Capital Program Allocation		(782,300)	(1,983,900)	(1,224,300)	161.2%	(1,995,400)	(2,007,400)		(2,019,300)	(2,026,700)
5.2 Shared Services		(150,000)	(93,000)	57,000	-38.0%	(94,900)	(96,800)		(98,700)	(100,700)
6.0 Capital Outlay		-	-	•	N/A	-	-		-	-
7.0 Unallocated Reserve		1,395,900	2,644,200	689,700	35.3%	3,624,900	4,530,400		5,463,000	6,821,200
Grand Total	\$	66,596,200	\$ 67,928,100	\$ 1,331,900	2.0%	\$ 69,286,700	\$ 70,672,400	\$	72,085,800	\$ 73,527,500





#### Five-Year Financial Plan by Team

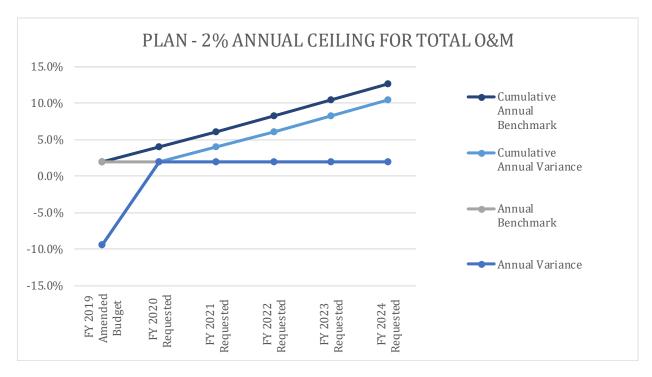
Team	ĵ¥ A	FY 2019 Amended Budget	FY 2020 Department Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance		FY 2021 epartment Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
Pumping Stations	5	9,962,700	\$ 9,642,100	\$ (320,600)	-3.2	%	\$ 9,742,600	\$ 9,842,800	\$ 9,943,100	\$ 9,943,100
Administration		2,169,400	1,977,400	(192,000)	-8.9	%	1,990,700	2,003,800	2,017,300	2,023,700
Water Treatment Plants		48,739,500	50,135,500	1,396,000	2.9	%	50,382,300	50,731,500	51,080,500	51,144,000
Water Engineering		2,531,200	1,672,300	(300,300)	-15.2	%	1,681,700	1,691,300	1,701,000	1,707,000
Water Quality		1,797,500	1,856,600	59,100	3.3	%	1,864,500	1,872,600	1,880,900	1,888,500
Water System Operations Unallocate	d	1,395,900	2,644,200	689,700	35.3	%	3,624,900	4,530,400	5,463,000	6,821,200
Grand Total	5	66,596,200	\$ 67,928,100	\$ 1,331,900	2.0	%	\$ 69,286,700	\$ 70,672,400	\$ 72,085,800	\$ 73,527,500

Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Water Operations Group's financial plan reflects a Five Year Overall decrease of 10.4% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated 0&M reserve".

This increase is not unexpected given the consistency of these major initiatives. And while there is an increased expense in the short-term, it is believed that this is the result of stabilizing the staffing level and realigning the expenses to reflect existing contracts and upcoming projects. The stabilization and realignment will result in a more effective utility in the long-run to better manage the use of resources.





# **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft"



# **Capital Outlay**

Water Operations capital outlay is funded by the Improvement & Extension (I&E) budget.

Capital Outlay	FY 2020 Requested	FY 2021 Requested	FY 2022 Requested	FY 2023 Requested	FY 2024 Requested
Water Engineering	\$ 5,500	\$ 11,500	\$ 5,500	\$ 5,500	\$ 5,500
Drawing Cabinets and Shelves 5	-	6,000	-	-	
Innovyse Infowater Maintenance Subscription	5,500	5,500	5,500	5,500	5,500
Water Quality	7,000	32,000	30,000	79,000	22,000
Dechlorination equipment	-	-	-	5,000	,
Distillation and deionization equipment	_	12,000	_	-	12,000
Incubator	_	_	_	11,000	-
Microcystin ADDA Elisa method equipment for regulatory analysis	_	_	_	30,000	_
Microtox - Model 500 Analyzer	_	20,000	20,000	-	_
Refrigerator Bacti Lab	_			6,000	_
Refrigerator for AA lab	_	_	_	6,000	_
Refrigerator lab	_	_	_	10,000	_
Refrigerator Lab for Taste and Odor analysis	_	_	_	6,000	_
Spectrophotometer	7,000	_	10,000		10,000
Turbidimeter	7,000		10,000	5,000	10,000
Water Treatment Plants	2,382,388	1,188,136	1,088,136	1,202,800	2,801,000
Water Works Park	340,388	66,136	78,136	473,800	554,000
Caustic Soda Pump	6,736	- 00,130	70,130	4/3,800	10,000
·	10,000	10,000	10,000	10,000	10,000
Chlorine Process Analyzer		10,000	10,000		
Coagulant metering pump	16,272	-	-	8,100	20,000
EQ Pump		-		10,000	25,000
Floct Motor equipment over life expectancy	46.070		-	-	36,000
Fluoride metering pump	16,272	-		-	20,000
Lab compressor unit	13,200	-	-	-	15,000
LabStrong Fi stream III still 4 LPH Bi- Distilled 240 V		-	-	11,200	
Lighting mixer	93,500	-	-	-	105,000
Low Concentration ozone monitor for contactor	-	24,000	-	-	-
Low concentration ozone monitor for ozone destruct room	-	18,000	-	-	-
Milton Roy key pad controller	-	-	-	20,000	-
Oilless compressor	-	-	45,000	-	50,000
Ozone heat exchanger	-	-	15,000	-	20,000
Ozone monitor in pilot plant, equipment over life expectancy	-	6,000	-	-	10,000
Ozone PLC Upgrade (Programmable Logic Controller)	-	-	-	130,000	-
Phosphoric acid metering pump	8,136	8,136	8,136	-	10,000
Pump 7 stage	-	-	-	15,000	-
Pump Milroy A	-	-	-	30,000	-
Pump Milroy B	-	-	-	-	36,000
Pump Milroy M	-	-	-	-	62,000
Rebuild ozone Generator	-	-	-	130,000	-
Rebuild Pilot Plant	130,000	-	-	-	130,000
Replace Level System MVS	-	-	-	60,000	-
Sodium bisulfite metering pumps	16,272	-	-	-	20,000
Sump Pumps	30,000	-	-	-	-
Surface scatter 7 sc Turbidimeter with 200 controller standard 2	-	-	-	19,500	-
Thickened mixer	-	-	-	15,000	-
Thickener mixer	-	_	-	15,000	-



	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Capital Outlay	Requested	Requested	Requested	Requested	Requested
Springwells Water Plant	735,000	679,000	632,000	351,000	901,000
4800 V Toshiba Breakers	90,000	60,000	65,000	10,000	65,000
Allen Bradley PLC (Programmable logic controller) for Filter Consoles in 1931 Filter Plant	25,000	25,000	25,000	25,000	25,000
Alum metering pump replacement- Total 12 units	-	-	-	-	130,000
Alum Transfer Pumps	23,000	25,000	-	_	25,000
Auxiliary Booster Pump Replacement- 2 units	-	-	-	_	12,000
Brass Slip rings & Brush holders-LLP	65,000	65,000	65,000	_	65,000
Carbon Metering Pumps	12,000	12,000	-	25,000	25,000
Chlorinator	52,000	55,000	55,000	75,000	55,000
Condensate Return Pumps& controls	100,000	100,000	65,000	-	100,000
Flocc Drive Replacement- 3 units per year	75,000	75,000	75,000	75,000	75,000
HACH 1720 E Turbidimeter	36,000	30,000	40,000	60,000	60,000
HACH Spectrophotometer	21,000	21,000	21,000	8,000	21,000
HighLift Discharge Valve Cylinders	70,000	70,000	60,000	_	70,000
Low Lift Discharge Vlave Cylinders	52,000	55,000	60,000	-	60,000
Microscope	10,000	10,000	10,000	_	10,000
Multilin	11,000	12,000	12,000	14,000	14,000
Polymer Blending Units	15,000	_	-	_	15,000
Polymer Metering Pump	15,000	_	15,000	15,000	15,000
Replace Steel Slip rings with Brass Split Slip rings for high Lift motors	52,000	52,000	52,000	30,000	45,000
Sychronous Motor Protection Module	11,000	12,000	12,000	14,000	14,000
Northeast Water Plant	925,000	335,000	320,000	320,000	465,000
Chlorinators	40,000	333,000	320,000	520,000	40,000
Chlorine Evaporator Vessel	-40,000	_	_	_	35,000
Condensate pumps (future replacement)	25,000	_	_	_	25,000
Cone valve	100,000	100,000	100,000	100,000	100,000
Flocculator Drives	500,000	-	100,000	-	100,000
High Lift Pumps	200,000	200,000	200,000	200,000	200,000
High lift sump pumps	15,000	15,000	20,000	20,000	20,000
High Pressure Water Pump	20,000	20,000	20,000	20,000	20,000
Low Lift Sump Pumps	25,000	20,000	-	-	25,000
Southwest Water Plant	238,000	95,000	45,000	45,000	484,000
Allen Bradley input displays for backwash (one for each gallery)	250,000	95,000	45,000	45,000	34,000
				-	
Bearing induction heater		_		_	40,000
Bobcat / Skidsteer w/ scoop  Carbon Mixer Gear Boxes				-	30,000
		-	-	-	16,000
Chlorine Evaporators		20.000			40,000
CL-17 Chlorine Analyzers (15)	20,000	20,000	20,000	20,000	20,000
Digital Autoclave Sterilimatic Sterilizer	-	20,000	-	-	20,000
Electric Pallet Jacks	-	-	-	-	20,000
Filter media (sand and anthracite)	125,000	-	-	-	-
Flocc-Drive Motor gear boxes	30,000	30,000	-	-	30,000
Flocculator motors	12,000		-	-	12,000
Hach Turbidimeters Inline monitors (36)	25,000	25,000	25,000	25,000	25,000
Incubator Laboratory	-	-	-	-	17,000
Laboratory Fume Hood	-	-	-	-	15,000
Motorized utility cart for snow removal and equipment transport	-	-	-	-	15,000
Plant Air Compressors (future replacement)	-	-	-	-	30,000
Retrofit 4 way valve for highlift discharge	-	-	-	-	54,000
Sonatax sc 4 Probes and 4 Pivot Mounts sludge blanket level detector	26,000	-	-	-	26,000
Trailer Mount Air Compressor (future replacement)	-	_	-	_	40,000



	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Capital Outlay	Requested	Requested	Requested	Requested	Requested
Lake Huron Water Plant	144,000	13,000	13,000	13,000	397,000
Benchtop Spectrophotometer	-	-	-	-	5,000
Electric Chain Hoist	11,000	-	-	-	11,000
Electric Utility Cart	7,000	7,000	7,000	7,000	7,000
Electric winch with davit arm and truck mount	-	-	-	-	10,000
Flail Mower	-	-	-	-	10,000
High Lift Control Power Battery Bank	-	-	-	-	30,000
High Lift Field Cubicle Upgrade	-	-	-	-	280,000
Low Lift Control Power Battery Bank	-	-	-	-	30,000
Megaohmeter Tester, 15000 volt	-	-	-	-	8,000
Online Colorimetric Chlorine Analyzer	6,000	6,000	6,000	6,000	6,000
Outdoor Aerial Lift	75,000	-	-	-	-
Skid Steer	45,000	-	-	-	-
Grand Total	\$ 2,394,888	\$ 1,231,636	\$ 1,123,636	\$ 1,287,300	\$ 2,828,500

# Five-Year Capital Outlay Plan by Team

Capital Outlay	FY 2020 Requested		FY 202 Request		FY 2022 Requeste		FY 2023 equested	_	Y 2024 Juested
					-		•		•
Water Engineering	\$	5,500		500	\$ 5,50		5,500	\$	5,500
Water Quality		7,000	32,	000	30,00	0	79,000		22,000
Water Treatment Plants	2,	382,388	1,188,	136	1,088,13	6	1,202,800	2,	,801,000
Water Works Park		340,388	66,	136	78,13	6	473,800		554,000
Springwells Water Plant		735,000	679,	000	632,00	0	351,000		901,000
Northeast Water Plant		925,000	335,	000	320,00	0	320,000		465,000
Southwest Water Plant		238,000	95,	000	45,00	0	45,000		484,000
Lake Huron Water Plant		144,000	13,	000	13,00	0	13,000		397,000
Grand Total	\$ 2,	394,888	\$ 1,231,	636	\$ 1,123,63	6 \$	1,287,300	\$ 2,	,828,500



# Line Item Budget and Financial Plan

The five-year plan with a line item expense budget is below. The expenses are listed in alphabetical order by cost center.

Cost Center & Description	FY 2018 Amended Budget	FY 2018 Activity thru 06.30.2018	FY 2019 Board Adopted Budget	FY 2020 Requested	FY 2021 Requested	FY 2022 Requested	FY 2023 Requested	FY 2024 Requested
882001 - COO - Water Operations & Field Services	\$ 399,700	\$ 332,100	\$ 477,900	\$ 359,600	\$ 362,100	\$ 364,400	\$ 366,900	\$ 368,600
2.1 Salaries & Wages	240,700	231,100	309,500	233,900	233,900	233,900	233,900	233,900
2.4 Employee Benefits	65,000	44,400	81,900	60,900	62,100	63,300	64,600	65,900
4.2 Supplies & Other	67,200	56,600	59,700	57,900	59,000	60,000	61,100	61,100
Memberships, Licenses & Subscriptions	45,900	45,500	44,800	45,700	46,600	47,500	48,400	48,400
Office Supplies	2,200	300	2,000	2,000	2,100	2,100	2,200	2,200
Training and Internal Meetings	7,900	3,200	7,900	5,000	5,100	5,100	5,100	5,100
Travel	11,200	7,600	5,000	5,200	5,200	5,300	5,400	5,400
4.3 Contractual Services	40,000	-	40,000	20,400	20,800	21,200	21,600	22,000
Contractual Professional Services	40,000	_	40,000	20,400	20,800	21,200	21,600	22,000
5.1 Capital Program Allocation	(13,200)	_	(13,200)	(13,500)	(13,700)	(14,000)	(14,300)	(14,300
882101 - Water Director	1,468,800	1,375,500	1,691,500	1,617,800	1,628,600	1,639,400	1,650,400	1,655,100
2.1 Salaries & Wages	594,000	661,200	755,400	782,000	782,000	782,000	782,000	782,000
2.3 Overtime	-	35,200	-	-	-	-	-	-
2.4 Employee Benefits	182,800	143,300	213,900	223,200	227,700	232,200	236,900	241,600
4.2 Supplies & Other	684,000	528,900	692,400	603,000	609,500	616,000	622,500	622,500
Memberships, Licenses & Subscriptions	2,000	800	1,000	1,000	1,000	1,100	1,100	1,100
Mileage and Parking	4,000	3,900	4,000	4,100	4,200	4,200	4,300	4,300
Office Supplies	5,000	3,600	5,000	5,100	5,200	5,300	5,400	5,400
Training and Internal Meetings	334,000	211,800	341,500	259,600	264,700	269,800	274,900	274,900
Travel	60,000	57,800	60,000	61,200	62,400	63,600	64,800	64,800
Tuition Refund	4,000	2,000	4,000	2,000	2,000	2,000	2,000	2,000
Employee Uniform Expense	85,000	109,500	85,000	120,000	120,000	120,000	120,000	120,000
Inspection and Permit Fees	190,000	139,500	191,900	150,000	150,000	150,000	150,000	150,000
4.3 Contractual Services	18,200	6,900	40,000	20,000	20,000	20,000	20,000	20,000
Contractual Operating Services	3,200	-	40,000	20,000	20,000	20,000	20,000	20,000
Contractual Professional Services	15,000	6,900	40,000	20,000	20,000	20,000	20,000	20,000
5.1 Capital Program Allocation	(10,200)	-	(10,200)	(10,400)	(10,600)	(10,800)	(11,000)	(11,000
882111 - Water Engineering	1,402,900	1,402,000	1,972,600	1,672,300	1,681,700	1,691,300	1,701,000	1,707,000
2.1 Salaries & Wages	1,089,200	1,113,100	1,227,900	2,076,200	2,076,200	2,076,200	2,076,200	2,076,200
2.3 Overtime	100,000	58,600	100,000	129,500	129,500	129,500	129,500	129,500
2.4 Employee Benefits	270,200	236,400	369,200	602,000		626,300	638,800	
2.5 Transition Services	46,800	33,700	309,200	002,000	614,000	020,500	030,000	651,600
2.6 Personnel Transition Adjustment	(366,000)	33,700	_	-				_
4.2 Supplies & Other	123,200	37,300	181,000	171,900	173,200	174,600	176,000	176,000
••	125,200	37,300	53,600	54,700	55,700	56,800	57,900	57,900
Capital Outlay less than \$5,000	16,600	7,000	11,300	27,800	28,000	28,100	28,300	28,300
Memberships, Licenses & Subscriptions								
Mileage and Parking	10,000	8,100	7,000	18,000	18,000 17,000	18,000	18,000	18,000
Office Supplies	19,100	10,000	20,100	17,000		17,000	17,000	17,000
Operating Supplies	7,000	1,200	7,000	15,700	15,700	15,700	15,700	15,700
Postage	500		500	500	500	500	500	500
Repairs & Maintenance-Equipment	-		-	-	-	-	-	-
Training and Internal Meetings	10,000	6,700	8,000	8,200	8,300	8,500	8,600	8,600
Travel	5,000	1,400	18,500	9,500	9,500	9,500	9,500	9,500
Tuition Refund	5,000	1,500	5,000	3,000	3,000	3,000	3,000	3,000
Employee Uniform Expense	10,000	1,400	10,000	17,500	17,500	17,500	17,500	17,500
Rentals-Miscellaneous	40,000	-	40,000	-	-	-	-	-
4.3 Contractual Services	450,000	326,600	405,000	283,600	287,200	290,800	294,400	294,400
Contractual Professional Services	450,000	326,600	405,000	283,600	287,200	290,800	294,400	294,400



	FY 2018	FY 2018	FY 2019					
	Amended		<b>Board Adopted</b>	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requested
882121 - Water Quality	1,392,500	1,239,500	1,797,500	1,856,600	1,864,500	1,872,600	1,880,900	1,888,500
2.1 Salaries & Wages	910,700	801,200	1,212,200	1,221,400	1,221,400	1,221,400	1,221,400	1,221,400
2.3 Overtime	50,000	34,000	55,000	50,800	50,800	50,800	50,800	50,800
2.4 Employee Benefits	358,500	388,500	450,000	450,400	459,400	468,600	478,000	487,600
4.1 Chemicals	60,600	60,300	58,600	110,400	110,800	111,100	111,500	111,500
4.2 Supplies & Other	133,800	42,800	141,900	87,100	87,700	88,500	89,100	89,100
Capital Outlay less than \$5,000	15,000	10,000	9,000	30,000	30,000	30,000	30,000	30,000
Memberships, Licenses & Subscriptions	2,800	200	2,800	2,900	2,900	3,000	3,000	3,000
Mileage and Parking	500	100	500	500	500	500	500	500
Office Supplies	10,000	7,600	10,000	10,200	10,400	10,600	10,800	10,800
Operating Supplies	25,000	22,900	38,600	41,500	41,900	42,400	42,800	42,800
Postage	45,500	-	46,000	-	-	-	-	-
Printing	35,000	2,000	35,000	2,000	2,000	2,000	2,000	2,000
Miscellaneous Expense	-	-	-	-	-	-	-	-
4.3 Contractual Services	66,600	53,800	67,500	68,000	68,500	69,000	69,500	69,500
Contractual Operating Services	66,600	53,800	67,500	68,000	68,500	69,000	69,500	69,500
5.1 Capital Program Allocation	(37,700)	-	(37,700)	(38,500)	(39,200)	(40,000)	(40,700)	(40,700
5.2 Shared Services	(150,000)	(141,100)	(150,000)	(93,000)	(94,900)	(96,800)	(98,700)	(100,700
Shared Services : Salaries & Wages Reimb	(43,500)	-		-	-	-	-	-
Shared Services Reimbursement	(106,500)		(106,500)	(93,000)	(94,900)	(96,800)	(98,700)	(100,700
Shared Services: Employee Benefit Reimb	-	(500)		` - '	-	-	-	-
6.0 Capital Outlay	_	-	-	_	_	-	-	_
882131 - Water Works Park	15,137,000	8,618,600	9,281,600	9,043,400	9,086,600	9,130,000	9,173,800	9,188,400
2.1 Salaries & Wages	2,010,000	2,081,600	1,925,700	1,926,300	1,926,300	1,926,300	1,926,300	1,926,300
2.2 Workforce Development	65,100	65,500	65,100	76,100	76,100	76,100	76,100	76,100
2.3 Overtime	400,000	405,300	450,000	450,000	450,000	450,000	450,000	450,000
2.4 Employee Benefits	757,300	822,800	757,400	690,500	704,300	718,400	732,800	747,400
3.1 Electric	2,058,900	2,061,300	2,000,000	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000
3.2 Gas	224,100	222,200	300,000	250,000	250,000	250,000	250,000	250,000
3.3 Sewage Service	15,000	14,000	100,000	20,000	20,000	20,000	20,000	20,000
4.1 Chemicals	802,200	962,300	1,200,000	1,048,700	1,058,600	1,068,600	1,078,600	1,078,600
4.2 Supplies & Other	950,300	780,900	1,053,100	839,700	841,900	843,900	846,000	846,000
Capital Outlay less than \$5,000	25,000	18,300	-	25,000	25,000	25,000	25,000	25,000
Memberships, Licenses & Subscriptions	1,000	200	2,000	1,000	1,000	1,000	1,000	1,000
Mileage and Parking	3,000	2,000	2,000	2,000	2,100	2,100	2,200	2,200
Office Supplies	7,700	10,900	9,500	11,100	11,200	11,200	11,300	11,300
Operating Supplies	310,400	161,700	310,400	189,000	189,000	189,000	189,000	189,000
		1	-	593,900	595,700	597,600	599,400	599,400
Repairs & Maintenance-Equipment Travel	573,100	572,400	700,600	353,500	353,700	357,000	355,400	355,400
Tuition Refund				1 000				
	1,000	100	2,000	1,000	1,000	1,000	1,000	1,000
Inspection and Permit Fees	9,100	6,600	6,600	6,700	6,900	7,000	7,100	7,100
Operating Supplies-Janitorial	20,000	8,700	20,000	10,000	10,000	10,000	10,000	10,000
4.3 Contractual Services	1,559,700	1,287,800	1,546,000	1,632,100	1,649,400	1,666,700	1,684,000	1,684,000
Contract Services-Information Technology	300,000	316,200	310,000	328,000	328,000	328,000	328,000	328,000
Contractual Buildings & Grounds Maint	580,000	670,400	678,000	684,400	697,800	711,300	724,700	724,700
Contractual Operating Services	670,700	295,500	548,900	392,700	396,600	400,400	404,300	404,300
Contractual Professional Services	-	-	-	220,000	220,000	220,000	220,000	220,000
Telecom, Managed Security & Network Svcs	9,000	5,700	9,100	7,000	7,000	7,000	7,000	7,000
5.1 Capital Program Allocation	(115,700) 6,410,100	(85,100)	(115,700)	(90,000)	(90,000)	(90,000)	(90,000)	(90,000



	FY 2018	FY 2018	FY 2019					
	Amended		<b>Board Adopted</b>	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requested
382141 - Springwells Water Plant	10,563,900	10,047,600	10,213,100	12,413,800	12,572,400	12,731,600	12,890,800	12,904,000
2.1 Salaries & Wages	2,004,400	1,729,100	1,923,300	1,923,600	1,923,600	1,923,600	1,923,600	1,923,600
2.2 Workforce Development	-	-	-	36,200	36,200	36,200	36,200	36,200
2.3 Overtime	275,000	281,600	290,000	281,800	281,800	281,800	281,800	281,800
2.4 Employee Benefits	739,200	660,700	699,000	674,000	687,500	701,200	715,200	729,500
3.1 Electric	3,384,700	3,385,100	3,250,000	3,315,000	3,380,000	3,445,000	3,510,000	3,510,000
3.2 Gas	300,000	242,900	235,000	239,700	244,400	249,100	253,800	253,800
4.1 Chemicals	1,574,200	1,421,500	1,529,200	1,466,000	1,481,000	1,496,000	1,511,000	1,511,000
4.2 Supplies & Other	797,600	571,400	701,000	674,100	675,100	676,300	677,300	677,300
Capital Outlay less than \$5,000	15,000	7,200	10,000	10,200	10,400	10,600	10,800	10,800
Memberships, Licenses & Subscriptions	500	200	-	-	-	-	-	-
Mileage and Parking	2,500	1,200	2,000	2,000	2,100	2,100	2,200	2,200
Office Supplies	10,500	4,200	6,000	5,700	5,700	5,800	5,800	5,800
Operating Supplies	249,800	127,600	164,000	132,200	132,400	132,700	132,900	132,900
Repairs & Maintenance-Equipment	500,000	424,700	500,000	511,500	512,000	512,500	513,000	513,000
Tuition Refund	-	-	1,000	1,000	1,000	1,100	1,100	1,100
Inspection and Permit Fees	3,000	700	3,000	1,500	1,500	1,500	1,500	1,500
Operating Supplies-Janitorial	16,300	5,600	15,000	10,000	10,000	10,000	10,000	10,000
4.3 Contractual Services	1,571,200	1,755,300	1,668,000	3,887,400	3,948,500	4,009,700	4,070,900	4,069,800
Contract Services-Information Technology	40,000	500	40,000	40,200	40,400	40,600	40,800	40,800
Contractual Buildings & Grounds Maint	401,200	405,200	493,000	415,000	415,000	415,000	415,000	415,000
Contractual Operating Services	1,100,000	1,318,900	1,100,000	3,176,500	3,236,700	3,297,000	3,357,300	3,356,200
Contractual Professional Services	30,000	30,700	35,000	255,700	256,400	257,100	257,800	257,800
5.1 Capital Program Allocation	(82,400)	-	(82,400)	(84,000)	(85,700)	(87,300)	(89,000)	(89,000
882151 - Northeast Water Plant	10,336,400	9,400,300	9,926,500	9,576,600	9,644,700	9,713,600	9,782,200	9,794,200
2.1 Salaries & Wages	1,858,600	1,584,100	1,714,800	1,690,400	1,690,400	1,690,400	1,690,400	1,690,400
2.2 Workforce Development	37,600	35,500	32,500	39,900	39,900	39,900	39,900	39,900
2.3 Overtime	250,000	211,200	250,000	241,900	241,900	241,900	241,900	241,900
2.4 Employee Benefits	687,500	610,800	625,900	579,800	591,400	603,300	615,300	627,600
3.1 Electric	3,500,000	3,379,100	4,000,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000
3.2 Gas	150,000	141,600	133,000	135,700	138,300	141,000	143,600	143,600
3.3 Sewage Service	250,000	144,200	200,000	204,000	208,000	212,000	216,000	216,000
3.4 Water Service	36,000	-	36,000	10,000	10,000	10,000	10,000	10,000
4.1 Chemicals	937,300	905,200	1,000,000	1,020,000	1,040,000	1,060,000	1,080,000	1,080,000
4.2 Supplies & Other	454,100	342,700	483,800	487,000	488,800	490,700	492,500	492,500
Capital Outlay less than \$5,000	15,000	8,800	15,000	15,300	15,600	15,900	16,200	16,200
Memberships, Licenses & Subscriptions	1,000	200	2,000	2,000	2,100	2,100	2,200	2,200
Mileage and Parking	1,000	700	1,000	1,000	1,000	1,100	1,100	1,100
Office Supplies	3,500	3,600	4,500	4,600	4,700	4,800	4,900	4,900
Operating Supplies	100,000	111,700	123,000	127,200	128,400	129,700	130,900	130,900
Postage	100	-	100	100	100	100	100	100
Repairs & Maintenance-Equipment	300,000	205,100	300,000	315,500	315,500	315,500	315,500	315,500
Travel	500	-	-	-	-	-	-	-
Tuition Refund	_	-	1,500	1,500	1,600	1,600	1,600	1,600
Inspection and Permit Fees	3,000	2,500	6,700	4,800	4,800	4,900	5,000	5,000
Operating Supplies-Janitorial	30,000	10,100	30,000	15,000	15,000	15,000	15,000	15,000
4.3 Contractual Services	2,262,200	2,068,100	1,537,400	2,126,900	2,155,300	2,184,000	2,212,400	2,212,400
Contract Services-Information Technology	56,000	60,000	56,000	63,000	63,000	63,000	63,000	63,000
Contractual Buildings & Grounds Maint	275,000	316,700	300,000	323,200	323,300	323,500	323,600	323,600
Contractual Operating Services	1,931,200	1,681,400	1,170,400	1,509,500	1,537,600	1,565,800	1,593,900	1,593,900



	FY 2018	FY 2018	FY 2019					
	Amended	Activity thru	<b>Board Adopted</b>	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requeste
82161 - Southwest Water Plant	8,790,300	8,022,500	6,681,700	6,975,500	6,924,700	6,974,400	7,023,800	7,035,50
2.1 Salaries & Wages	1,639,200	1,727,400	1,584,900	1,654,800	1,654,800	1,654,800	1,654,800	1,654,80
2.2 Workforce Development	37,600	6,300	32,500	-	-	-	-	-
2.3 Overtime	375,000	380,600	250,000	233,300	233,300	233,300	233,300	233,30
2.4 Employee Benefits	615,000	670,800	593,700	565,700	577,000	588,600	600,300	612,30
3.1 Electric	1,582,600	1,265,200	1,300,000	1,326,000	1,352,000	1,378,000	1,404,000	1,404,00
3.2 Gas	139,000	127,300	140,400	140,000	140,000	140,000	140,000	140,00
3.3 Sewage Service	344,800	200,400	300,000	225,000	225,000	225,000	225,000	225,00
4.1 Chemicals	656,000	439,400	700,000	453,400	453,700	454,100	454,400	454,40
4.2 Supplies & Other	1,019,200	824,200	768,300	765,900	773,300	780,700	788,000	788,00
Capital Outlay less than \$5,000	10,000	3,200	10,000	10,200	10,400	10,600	10,800	10,80
Memberships, Licenses & Subscriptions	300	200	1,500	1,500	1,600	1,600	1,600	1,60
Mileage and Parking	8,400	1,700	2,500	2,500	2,600	2,600	2,700	2,70
Office Supplies	15,000	12,900	12,500	12,700	13,000	13,200	13,500	13,50
Operating Supplies	175,000	157,200	175,000	172,000	172,900	173,900	174,800	174,80
Repairs & Maintenance-Equipment	472,500	254,700	300,300	295,100	295,700	296,300	296,900	296,90
Inspection and Permit Fees Rentals-Miscellaneous	3,000	2,600	3,000	3,100	3,100	3,200	3,200	3,20
	10.000	0 200	3,000	3,100	3,100	3,200	3,200	3,20
Operating Supplies-Janitorial	10,000	8,300	10,000	10,200	10,400	10,600	10,800	10,80
Property Taxes 4.3 Contractual Services	325,000 <b>2,448,700</b>	383,400	250,500	255,500	260,500	265,500	270,500	270,50
		<b>2,452,600</b> 71,500	1,078,700	<b>1,672,100</b> 74,500	1,576,500	1,581,100	1,585,500	<b>1,585,5</b> 0 78,80
Contract Services-Information Technology  Contractual Buildings & Grounds Maint	75,000 350,000	429,600	73,000		75,900	77,400	78,800	467,30
Contractual Operating Services	2.013.700	1,949,200	615,000 388,700	466,300 906,300	466,600 808,900	467,000 811,600	467,300 814,200	814,20
Contractual Professional Services	5,000	2,300	300,700	223,000	223,000	223,000	223,000	223,00
Telecom, Managed Security & Network Svcs	5,000	2,500	2,000	2,000	2,100	2,100	2,200	2,20
5.1 Capital Program Allocation	(66,800)	(71,700)	(66,800)	(60,700)	(60,900)	(61,200)	(61,500)	(61,80
82171 - Lake Huron Water Plant	12,059,000	11,542,600	12,636,600	12,126,200	12,153,900	12,181,900	12,209,900	12,221,90
2.1 Salaries & Wages	1,699,400	1,576,500	1,633,700	1,652,300	1,652,300	1,652,300	1,652,300	1,652,30
2.2 Workforce Development	37,600	-	-	-	-	-	-	1,032,30
2.3 Overtime	300,000	305,300	365,000	365,000	365,000	365,000	365,000	365,00
2.4 Employee Benefits	647,300	618,400	617,800	565,200	576,600	588,100	599,800	611,80
2.6 Personnel Transition Adjustment	(180,000)	-	-	-	-	-	-	-
3.1 Electric	6,167,300	6,107,700	6,500,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,0
3.2 Gas	202,700	167,300	202,700	190,000	190,000	190,000	190,000	190,00
3.3 Sewage Service	101,000	62,500	101,000	70,000	70,000	70,000	70,000	70,00
3.4 Water Service	14,000	-	14,000	5,000	5,000	5,000	5,000	5,00
4.1 Chemicals	1,168,000	1,016,000	1,186,300	1,076,200	1,078,200	1,080,200	1,082,200	1,082,20
4.2 Supplies & Other	658,000	479,700	508,700	559,700	559,900	560,500	560,700	560,70
Capital Outlay less than \$5,000	15,000	11,700	-	15,000	15,000	15,000	15,000	15,00
Memberships, Licenses & Subscriptions	2,000	700	500	500	500	500	500	5
Mileage and Parking	5,000	3,300	6,000	6,100	6,200	6,400	6,500	6,5
Office Supplies	12,000	10,000	6,200	10,900	10,900	11,000	11,000	11,0
Operating Supplies	195,000	206,100	200,000	207,500	207,500	207,500	207,500	207,5
Postage	1,000	200	3,000	3,100	3,100	3,200	3,200	3,2
Repairs & Maintenance-Equipment	400,000	227,500	250,000	285,000	285,000	285,100	285,100	285,10
Travel	-	_	-	-	-	-	-	-
Tuition Refund	-	-	-	_	-	-	-	-
Inspection and Permit Fees	3,000	600	3,000	1,500	1,500	1,500	1,500	1,5
Operating Supplies-Janitorial	5,000	4,400	5,000	5,100	5,200	5,300	5,400	5,40
Property Taxes	10,000	6,800	15,000	10,000	10,000	10,000	10,000	10,00
Operating Supplies-Automotive	10,000	8,400	20,000	15,000	15,000	15,000	15,000	15,00
4.3 Contractual Services	1,279,900	1,209,200	1,543,600	1,579,700	1,594,500	1,609,200	1,624,000	1,624,0
Contract Services-Information Technology	20,800	-	20,000	20,400	20,800	21,200	21,600	21,60
Contractual Buildings & Grounds Maint	350,000	366,000	445,000	420,000	420,000	420,000	420,000	420,00
Contractual Operating Services	907,100	832,100	1,076,600	907,300	921,600	935,900	950,200	950,20
Contractual Professional Services	2,000	11,100	2,000	232,000	232,100	232,100	232,200	232,20
5.1 Capital Program Allocation	(36,200)	_	(36,200)	(36,900)	(37,600)	(38,400)	(39,100)	(39,10



	FY 2018	FY 2018	FY 2019					
	Amended	Activity thru	Board Adopted	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Budget	Requested		Requested		Requeste
882321 - Ford Rd Pumping Station	542,000	401,000	392,000	394,600	402,300	409,900	417,600	417,600
3.1 Electric	450,000	377,800	350,000	357,000	364,000	371,000	378,000	378,000
3.2 Gas	60,000	3,600	10,000	5,000	5,000	5,000	5,000	5,000
3.3 Sewage Service	2,000	-	2,000	2,000	2,100	2,100	2,200	2,200
3.4 Water Service	5,000	-	5,000	5,100	5,200	5,300	5,400	5,400
4.2 Supplies & Other	25,000	19,600	25,000	25,500	26,000	26,500	27,000	27,000
Repairs & Maintenance-Equipment	25,000	19,600	25,000	25,500	26,000	26,500	27,000	27,000
882322 - Eastside Pumping Station	160,000	34,200	80,000	43,000	43,100	43,100	43,200	43,200
3.1 Electric	100,000	29,400	50,000	30,000	30,000	30,000	30,000	30,000
3.2 Gas	35,000	300	5,000	3,000	3,100	3,100	3,200	3,200
4.2 Supplies & Other	25,000	4,500	25,000	10,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Equipment	25,000	4,500	25,000	10,000	10,000	10,000	10,000	10,000
882323 - Northwest Pumping Station	36,000	8,300	37,000	17,000	17,000	17,000	17,000	17,000
3.1 Electric	7,000	6,400	7,000	5,000	5,000	5,000	5,000	5,000
3.3 Sewage Service	2,000	200	2,000	1,000	1,000	1,000	1,000	1,000
3.4 Water Service	2,000	100	3,000	1,000	1,000	1,000	1,000	1,000
4.2 Supplies & Other	25,000	1,600	25,000	10,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Equipment	25,000	1,600	25,000	10,000	10,000	10,000	10,000	10,000
882324 - West Service Center Pumping Station	750,000	745,600	760,000	770,000	785,000	800,000	815,000	815,000
3.1 Electric	675,000	697,200	700,000	714,000	728,000	742,000	756,000	756,000
3.2 Gas	15,000	3,000	10,000	5,000	5,000	5,000	5,000	5,000
4.2 Supplies & Other		45,400		51,000	52,000	53,000		54.000
• • • • • • • • • • • • • • • • • • • •	60,000		50,000				54,000	
Repairs & Maintenance-Equipment	60,000	45,400	50,000	51,000	52,000	53,000	54,000	54,000
882325 - Michigan Ave Pumping Station	129,900	83,500	119,000	100,800	102,800	104,600	106,600	106,600
3.1 Electric	100,000	81,500	90,000	91,800	93,600	95,400	97,200	97,200
3.3 Sewage Service	2,000	800	2,000	2,000	2,100	2,100	2,200	2,200
3.4 Water Service	2,900	800	2,000	2,000	2,100	2,100	2,200	2,200
4.2 Supplies & Other	25,000	400	25,000	5,000	5,000	5,000	5,000	5,000
Repairs & Maintenance-Equipment	25,000	400	25,000	5,000	5,000	5,000	5,000	5,000
882326 - West Chicago Rd Pumping Station	105,000	50,500	75,000	61,000	62,000	63,000	64,000	64,000
3.1 Electric	80,000	42,500	50,000	51,000	52,000	53,000	54,000	54,000
4.2 Supplies & Other	25,000	8,000	25,000	10,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Equipment	25,000	8,000	25,000	10,000	10,000	10,000	10,000	10,000
882327 - Electric Ave Pumping Station	45,700	18,700	50,000	35,500	36,000	36,500	37,000	37,000
3.1 Electric	20,700	16,600	25,000	25,500	26,000	26,500	27,000	27,000
4.2 Supplies & Other	25,000	2,100	25,000	10,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Equipment	25,000	2,100	25,000	10,000	10,000	10,000	10,000	10,000
882328 - Orion Township Pumping Station	180,000	71,200	100,000	81,500	83,000	84,500	86,000	86,000
3.1 Electric	150,000	69,800	70,000	71,400	72,800	74,200	75,600	75,600
3.2 Gas	5,000	1,400	5,000	5,100	5,200	5,300	5,400	5,400
4.2 Supplies & Other	25,000	-	25,000	5,000	5,000	5,000	5,000	5,000
Repairs & Maintenance-Equipment	25,000	_	25,000	5,000	5,000	5,000	5,000	5,000
882329 - North Service Center Pumping Station	2,450,000	2,094,500	2,230,000	2,127,000	2,129,000	2,131,000	2,133,000	2,133,000
3.1 Electric	2,250,000	1,972,900	2,100,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
3.2 Gas	50,000	20,800	30,000	25,000	25,000	25,000	25,000	25,000
4.2 Supplies & Other	150,000	100,800	100,000	102,000	104,000	106,000	108,000	108,000
Repairs & Maintenance-Equipment	150,000	100,800	100,000	102,000	104,000	106,000	108,000	108,000
882330 - Adams Road Pumping Station	550,000	545,100	575,000	520,000	520,000	520,000	520,000	520,000
3.1 Electric				500,000				
	525,000	532,500	550,000		500,000	500,000	500,000	500,000
4.2 Supplies & Other	25,000	12,600	25,000	20,000	20,000	20,000	20,000	20,000
Repairs & Maintenance-Equipment	25,000	12,600	25,000	20,000	20,000	20,000	20,000	20,000
882331 - Newburgh Pumping Station	395,000	375,800	390,000	382,300	389,600	396,900	404,200	404,200
3.1 Electric	370,000	372,100	365,000	372,300	379,600	386,900	394,200	394,200
4.2 Supplies & Other	25,000	3,700	25,000	10,000	10,000	10,000	10,000	10,00



	FY 2018	FY 2018	FY 2019					
	Amended	Activity thru	Board Adopted	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requested
882332 - Franklin Road Pumping Station	850,000	845,100	855,000	830,600	831,200	831,800	832,400	832,400
3.1 Electric	825,000	796,000	825,000	800,000	800,000	800,000	800,000	800,000
4.2 Supplies & Other	25,000	33,300	30,000	30,600	31,200	31,800	32,400	32,400
Repairs & Maintenance-Equipment	25,000	33,300	30,000	30,600	31,200	31,800	32,400	32,400
6.0 Capital Outlay	-	15,800	-	-	-	-	-	-
882333 - Roseville Pumping Station	-	-	30,200	10,300	10,400	10,500	10,600	10,600
3.1 Electric	-	-	5,000	5,100	5,200	5,300	5,400	5,400
3.4 Water Service	-	-	200	200	200	200	200	200
4.2 Supplies & Other	-	-	25,000	5,000	5,000	5,000	5,000	5,000
Repairs & Maintenance-Equipment	-	-	25,000	5,000	5,000	5,000	5,000	5,000
882334 - Wick Road Pumping Station	561,400	558,200	540,500	571,000	581,500	592,000	602,500	602,500
3.1 Electric	475,000	475,100	475,000	484,500	494,000	503,500	513,000	513,000
3.2 Gas	6,000	4,700	5,000	5,100	5,200	5,300	5,400	5,400
3.3 Sewage Service	400	400	500	500	500	500	500	500
4.2 Supplies & Other	80,000	78,000	60,000	80,900	81,800	82,700	83,600	83,600
Repairs & Maintenance-Equipment	80,000	78,000	60,000	80,900	81,800	82,700	83,600	83,600
882335 - Joy Road Pumping Station	605,500	592,400	630,500	592,300	592,700	593,100	593,400	593,400
3.1 Electric	575,000	555,300	600,000	550,000	550,000	550,000	550,000	550,000
3.2 Gas	5,000	3,000	5,000	4,000	4,000	4,100	4,100	4,100
3.3 Sewage Service	500	500	500	500	500	500	500	500
4.2 Supplies & Other	25,000	33,600	25,000	37,800	38,200	38,500	38,800	38,800
Repairs & Maintenance-Equipment	25,000	33,600	25,000	37,800	38,200	38,500	38,800	38,800
882336 - Schoolcraft Pumping Station	405,000	408,900	456,000	451,300	451,600	452,000	452,300	452,300
3.1 Electric	370,000	385,800	425,000	425,000	425,000	425,000	425,000	425,000
3.2 Gas	10,000	1,300	6,000	6,100	6,200	6,400	6,500	6,500
4.2 Supplies & Other	25,000	13,500	25,000	20,200	20,400	20,600	20,800	20,800
Repairs & Maintenance-Equipment	25,000	13,500	25,000	20,200	20,400	20,600	20,800	20,800
4.3 Contractual Services	_	8,300	-	-	-	-	-	-
Contractual Operating Services	_	8,300	-	-	-	-	-	-
882337 - Ypsilanti Pumping Station	391,500	375,000	351,500	353,300	360,200	367,000	373,800	373,800
3.1 Electric	360,000	357,300	320,000	326,400	332,800	339,200	345,600	345,600
3.2 Gas	6,500	5,300	6,500	6,600	6,800	6,900	7,000	7,000
4.2 Supplies & Other	25,000	12,400	25,000	20,300	20,600	20,900	21,200	21,200
Repairs & Maintenance-Equipment	25,000	12,400	25,000	20,300	20,600	20,900	21,200	21,200
882338 - Imlay Pumping Station	2,105,000	2,091,300	1,775,000	1,805,300	1,840,600	1,875,900	1,911,200	1,911,200
3.1 Electric	2,080,000	2,078,400	1,750,000	1,785,000	1,820,000	1,855,000	1,890,000	1,890,000
4.2 Supplies & Other	25,000	12,900	25,000	20,300	20,600	20,900	21,200	21,200
Repairs & Maintenance-Equipment	25,000	12,900	25,000	20,300	20,600	20,900	21,200	21,200
882339 - Rochester Pumping Station	283,000	182,400	235,000	224,200	228,400	232,600	236,800	236,800
3.1 Electric	250,000	173,300	200,000	204,000	208,000	212,000	216,000	216,000
3.2 Gas	7,000	7,800	9,000	9,200	9,400	9,500	9,700	9,700
3.3 Sewage Service	-	100						
<u> </u>	1,000		1,000	1,000	1,000	1,100	1,100	1,100
4.2 Supplies & Other	25,000	1,200	25,000	10,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Equipment	25,000	1,200	25,000	10,000	10,000	10,000	10,000	10,000
882340 - Haggerty Road Pumping Station	266,000	211,300	281,000	271,100	276,200	281,400	286,500	286,500
3.1 Electric	210,000	221,300	225,000	229,500	234,000	238,500	243,000	243,000
3.2 Gas	30,000	(15,500)	30,000	30,600	31,200	31,800	32,400	32,400
3.3 Sewage Service	1,000	500	1,000	1,000	1,000	1,100	1,100	1,100
4.2 Supplies & Other	25,000	5,000	25,000	10,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Equipment	25,000	5,000	25,000	10,000	10,000	10,000	10,000	10,000
887601 - Water System Operations Unallocated	1,149,100	-	1,954,500	2,644,200	3,624,900	4,530,400	5,463,000	6,821,200
7.0 Unallocated Reserve	1,149,100	\$ 61.673.700	1,954,500	2,644,200 \$ 67,928,100	3,624,900	4,530,400	5,463,000	6,821,200



## **Highlights**

### The Energy, Research & Innovation Area strategic initiatives include:

### **❖** Advance the Energy Management Program

Complete an Investment Grade Audit of the Water Resource Recovery Facility (WRRF) through Energy Service Contracting.

Implement water system-wide a real-time asset intelligence software to optimize pumping strategies.

Install additional electric metering equipment for tracking of energy consumption at a more granular level to establish a data platform from which energy optimization and reduction can be achieved.

Implement energy reduction opportunities found through the participation in the State of Michigan's Wastewater Infrastructure Accelerator Program which is intended to accelerate a pathway toward sustainable infrastructure of the future.

### Pursue Designation of Utility of the Future

Conduct & coordinate research that moves the Water Resource Recovery Facility to a Utility of the Future, as described by the Water Environment Federation, National Association of Clean Water Agencies and Water Environment & Reuse Foundation.

### **Pursue Research of Treatment & Monitoring**

Treatment techniques for emerging contaminates of concern. Innovative monitoring tools.

#### **Organization**

The GLWA Energy, Research & Innovation Area will help identify key areas for collaboration across research programs, research coordination and priorities, and streamlining of energy management to enable the development of technology and promote innovation as well as economic growth.



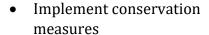


## **Expense Categories**

There are two major categories of Energy, Research & Innovation expenses in the Operations and Maintenance Budget as listed below.

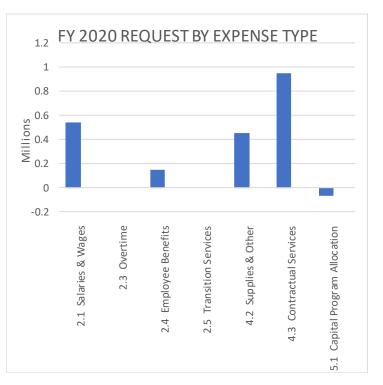
- Contractual Services
- Salaries & Wages

Contractual Services is the highest expense category for Energy, Research & Innovation. The level of contractual services reflects the decision to contract for services that will help to accomplish the following:



- Monitor energy consumption
- Assess business decisions for sustainability
- Coordinate research efforts to provide cost savings
- Identify and implement the latest advancements in managing water quality

The Energy, Research & Innovation Area is reaching a steady state in staffing. As a result of progress in staff placement, there has been a restructuring of current positions in order to accommodate the higher level of expertise required, to support the day to day operational decision-making needs, and to reduce the utilization of contracts. Accordingly, salaries & wages is the second highest expense category.





### **Biennial Budget Request**

The biennial reflects an increase in FY 2020 as a result of the ramp up of the contractual services initiatives defined above.

Biennial Budget Request by Expense Category

							FY 2020			FY 2020	FY 2020		FY 2021
		FY 2018	FY	Y 2018 Activity		FY 2019	D	Department		Dollar	Percent	D	Department
Expense Category	Ţ A	mended Budget	th	ru 06.30.2018	An	nended Budget	]	Requested	1	Variance	Variance	]	Requested
2.0 Personnel	!	\$ 264,000	\$	219,500	\$	689,500	\$	695,300	\$	5,800	0.8%	\$	698,300
4.2 Supplies & Other		22,800		5,700		314,000		456,300		142,300	45.3%		457,100
4.3 Contractual Services		371,600		388,100		522,900		952,200		429,300	82.1%		718,000
5.1 Capital Program Allocation		(45,600)		-		(62,500)		(63,800)		(1,300)	2.1%		(65,000)
Grand Total		\$ 612,800	\$	613,300	\$	1,463,900	\$	2,040,000	\$	576,100	39.4%	\$	1,808,400

### **Personnel Budget**

Energy, Research & Innovation personnel consists of 6 positions for FY 2020 and is largely comprised of staffing that will provide ongoing monitoring of developments in order to allow new research priorities to be set and also phase out topics that are no longer relevant. Research and innovation are essential pillars of a promising future strategy for shaping energy supplies of tomorrow. The staffing level is in the tables below.

The following tables provide three alternate views of the staffing plans and budget.

*Staffing Plan* - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

Staffing Plan – Number of Positions

	Prior Year	<b>Current Year</b>	Biennial Budget				
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan
Energy, Research & Innovation	0.00	6.00	6.00	6.00	6.00	6.00	6.00

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### *Full-time Equivalents*

	Prior Year	Prior Year Current Year Biennial Budget Forecast				Forecast	
	FY 2018	FY 2019					
	Approved	Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's
Energy, Research & Innovation	0.00	6.00	6.00	6.00	6.00	6.00	6.00

Draft 12.20.2018 Page 3 of 6



*Personnel Budget* - The table below presents the Water Operations personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.

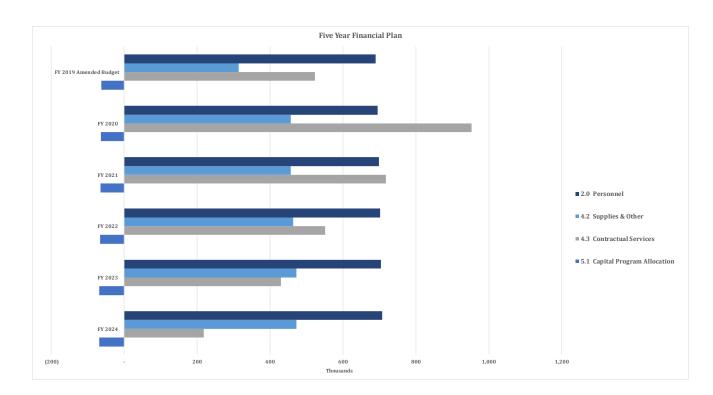
### Personnel Budget

	Prior Year	Current Year	Biennia	l Budget	Forecast				
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024		
	Approved	Approved	Requested	Requested	Requested	Requested	Requested		
Cost Center	Budget	Budget	Budget	Budget	Budget	Budget	Budget		
Energy, Research & Innovation	\$ 264,000	\$ 689,500	\$ 695,300	\$ 698,300	\$ 701,400	\$ 704,600	\$ 707,900		

#### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

Expense Category	Ţ A	FY 2019 mended Budget	D	FY 2020 epartment lequested	FY 2020 Dollar Variance	FY 2020 Percent Variance	De	FY 2021 epartment equested	D	FY 2022 epartment Requested	De	FY 2023 epartment equested	De	FY 2024 epartment equested
2.0 Personnel	5	689,500	\$	695,300	\$ 5,800	0.8%	\$	698,300	\$	701,400	\$	704,600	\$	707,900
4.2 Supplies & Other		314,000		456,300	142,300	45.3%		457,100		463,800		472,600		472,600
4.3 Contractual Services		522,900		952,200	429,300	82.1%		718,000		551,100		429,700		218,000
5.1 Capital Program Allocation		(62,500)		(63,800)	(1,300)	2.1%		(65,000)		(66,400)		(67,700)		(67,700)
Grand Total	5	1,463,900	\$	2,040,000	\$ 576,100	39.4%	\$	1,808,400	\$	1,649,900	\$	1,539,200	\$	1,330,800

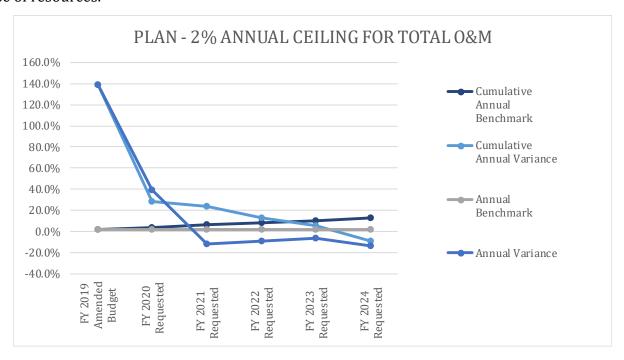




Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Energy, Research & Innovation Group's financial plan reflects a Five Year Overall decrease of 9.1% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated O&M reserve".

This decrease is not unexpected given the consistency of these major initiatives. And while there is a decreased expense in the short-term, it is believed that this is the result of stabilizing the staffing level and realigning the expenses to reflect existing contracts and upcoming projects. The stabilization and realignment will result in a more effective utility in the long-run to better manage the use of resources.



#### **Effective Utility Management Measures**

The key performance indicators listed below provides an indication of where the focus of the Energy, Research & Innovation Area is and what the group strives to achieve.

- Project Budgeting & Tracking
- Implementation of technology to improve service delivery
- Investigation of emerging Contaminants of Concern (CC)



# **Capital Outlay**

Energy, Research & Innovations capital outlay is funded by the Improvement & Extension (I&E) budget.

## (not a component of this group)

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in report order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

				FY 2018						
	FY	2018	Acti	vity thru	FY 2019 Board	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	<b>™</b> Amende	d Budget	06.	30.2018	<b>Adopted Budget</b>	Requested	Requested	Requested	Requested	Requested
882501 - Energy, Research & Innovation	\$	612,800	\$	613,300	\$ 1,463,900	\$ 2,040,000	\$ 1,808,400	\$ 1,649,900	\$ 1,539,200	\$ 1,330,800
2.1 Salaries & Wages		193,600		184,300	542,600	542,500	542,500	542,500	542,500	542,500
2.4 Employee Benefits		70,400		35,200	146,900	152,800	155,800	158,900	162,100	165,400
4.2 Supplies & Other		22,800		5,700	314,000	456,300	457,100	463,800	472,600	472,600
Capital Outlay less than \$5,000		-		-	-	-	2,000	-	-	-
Memberships, Licenses & Subscriptions		200		200	298,800	438,400	436,800	445,200	453,600	453,600
Mileage and Parking		4,600		-	2,000	1,500	1,500	1,600	1,600	1,600
Operating Supplies		-		800	2,000	5,000	5,100	5,100	5,300	5,300
Training and Internal Meetings		10,500		1,200	4,400	4,500	4,600	4,700	4,800	4,800
Travel		7,500		3,500	6,800	6,900	7,100	7,200	7,300	7,300
4.3 Contractual Services		371,600		388,100	522,900	952,200	718,000	551,100	429,700	218,000
Contractual Professional Services		371,600		388,100	522,900	952,200	718,000	551,100	429,700	218,000
5.1 Capital Program Allocation		(45,600)		-	(62,500)	(63,800)	(65,000)	(66,400)	(67,700)	(67,700)
Capital Program: Salaries & Wages-Direct		-		-	(16,900)	(17,300)	(17,600)	(18,000)	(18,300)	(18,300)
Capital Program: Salaries & Wages-Indire		(45,600)		-	(45,600)	(46,500)	(47,400)	(48,400)	(49,400)	(49,400)
Grand Total	\$	612,800	\$	613,300	\$ 1,463,900	\$ 2,040,000	\$ 1,808,400	\$ 1,649,900	\$ 1,539,200	\$ 1,330,800



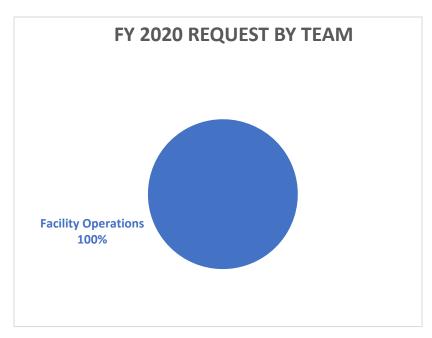
# **Highlights**

## The Facility Operations Area strategic initiatives include:

- **!** Improving buildings and grounds efficiency:
  - Ensure facilities, buildings and grounds are properly maintained, secure, environmentally safe and upgraded to support GLWA's specific operations
- **Proper staffing levels:** 
  - Ensure adequate staffing levels in order to increase proactive facility maintenance

### **Organization**

The GLWA Facility Operations Area is responsible for maintaining and managing all properties, such as the grounds and structures associated with the water and wastewater system.



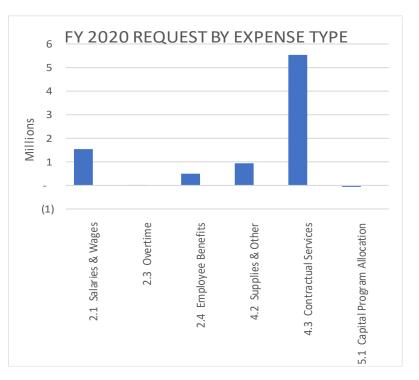


### **Expense Categories**

There are two major categories of Facility Operations expenses in the Operations and Maintenance Budget as listed below.

- Contractual Services
- Salaries & Wages

Contractual Services is the highest expense category for Facility Operations. The level of contractual services reflects the decision to contract for certain non-core services which includes lawn care maintenance, snow removal, rubbish removal, extermination services, elevator maintenance, preventative maintenance, DWSD shared services



(OPS-006 – Shared Facilities Shared Cost) as well as the efficient management of peak workload activities.

The Facility Operations Area is reaching a steady state in staffing and accommodating the higher level of expertise required in order to efficiently maintain the GLWA facilities as needed. Accordingly, salaries & wages is the second highest expense category.



### **Biennial Budget Request**

The biennial reflects an increase in FY 2020 as a result of the shared services contract with DWSD (OPS-006 – Shared Facilities Shared Cost) for Randolph & Huber facilities increasing (\$1.2 million). As noted in the personnel budget section below, the full-time equivalents number is increasing by 3 although wages are lower due to a mix of classifications and budget vs. actuals in starting salaries.

Biennial Budget Request by Expense Category

Expense Category	Ţ A	FY 2018 Amended Budget	7 2018 Activity ru 06.30.2018	Am	FY 2019 ended Budget	FY 2020 Department Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance	FY 2021 Department Requested
2.0 Personnel	5	1,487,900	\$ 1,589,200	\$	2,131,600	\$ 2,090,400	\$ (41,200)	-1.9%	\$ 2,100,500
3.1 Electric		-	-			-	-	N/A	-
3.2 Gas		-	•			-	-	N/A	
3.3 Sewage Service		-	•			-	-	N/A	
3.4 Water Service		-	•			-	-	N/A	
4.1 Chemicals		-	-		-	-	-	N/A	-
4.2 Supplies & Other		1,493,500	731,100		1,110,000	963,200	(146,800)	-13.2%	972,000
4.3 Contractual Services		4,852,000	5,392,900		4,106,000	5,546,400	1,440,400	35.1%	5,583,800
5.1 Capital Program Allocation		(60,600)			(60,600)	(61,800)	(1,200)	2.0%	(63,000)
5.2 Shared Services		(8,000)	54,600		(8,000)	-	8,000	-100.0%	•
6.0 Capital Outlay		-	6,300		302,500	-	(302,500)	-100.0%	-
Grand Total	5	7,764,800	\$ 7,774,100	\$	7,581,500	\$ 8,538,200	\$ 956,700	12.6%	\$ 8,593,300

### **Personnel Budget**

Facility Operations personnel consists of 25 positions for FY 2020 and is largely comprised of operations staffing that perform a variety of skilled facility and fleet work relative to the operations and maintenance of water and wastewater facilities. The staffing level is in the tables below.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennia	Biennial Budget		Forecast		
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
Cost Center	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	
Facility Operations	22.00	22.00	25.00	25.00	25.00	25.00	25.00	

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.



### Full-time Equivalents

	Prior Year	Current Year	Biennial	Budget			
	FY 2018	FY 2019					
	Approved	Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's
Facility Operations	22.00	22.00	25.00	25.00	25.00	25.00	25.00

*Personnel Budget* - The table below presents the Water Operations personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.

# Personnel Budget

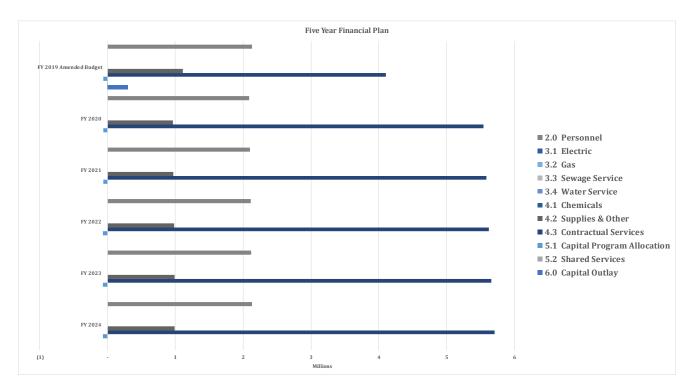
	Prior Year	Current Year	Biennial	Budget	Forecast					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024			
	Approved	Approved	Requested	Requested	Requested	Requested	Requested			
Cost Center	Budget									
Facility Operations	\$ 1,630,900	\$ 2,201,600	\$ 2,090,400	\$ 2,100,500	\$ 2,110,800	\$ 2,121,400	\$ 2,132,100			

### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

Expense Category	Ţ Ame	FY 2019 ended Budget	FY 2020 Department Requested	I	Y 2020 Dollar ariance	Pe	7 2020 ercent riance	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
2.0 Personnel	\$	2,131,600	\$ 2,090,400	\$	(41,200)		-1.9%	\$ 2,100,500	\$ 2,110,800	\$ 2,121,400	\$ 2,132,100
3.1 Electric		-	•		-	N/A		-		-	-
3.2 Gas		-	•		-	N/A		-	-	-	-
3.3 Sewage Service		-				N/A		-		-	
3.4 Water Service		-				N/A				-	
4.1 Chemicals		-				N/A		-	-	-	
4.2 Supplies & Other		1,110,000	963,200	(	(146,800)		-13.2%	972,000	980,800	989,700	989,700
4.3 Contractual Services		4,106,000	5,546,400	1	,440,400		35.1%	5,583,800	5,622,100	5,661,400	5,710,200
5.1 Capital Program Allocation		(60,600)	(61,800)		(1,200)		2.0%	(63,000)	(64,200)	(65,400)	(65,400)
5.2 Shared Services		(8,000)	-		8,000		-100.0%	-	-	-	-
6.0 Capital Outlay		302,500	-	(	(302,500)		-100.0%	-	-	-	-
Grand Total		7,581,500	8,538,200		956,700		12.6%	\$ 8,593,300	\$ 8,649,500	\$ 8,707,100	\$ 8,766,600



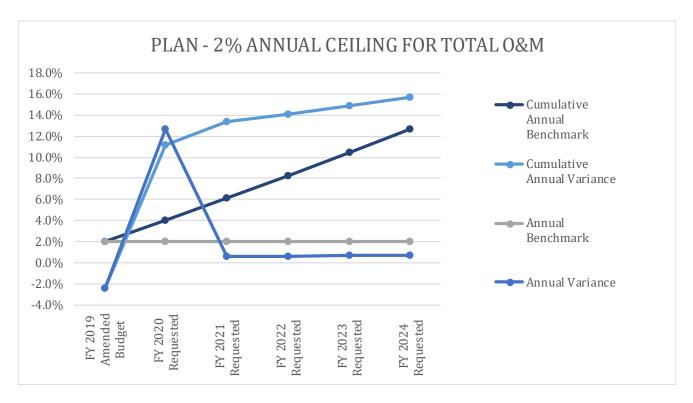


### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Facility Operations Group's financial plan reflects a Five Year Overall increase of 15.6% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated 0&M reserve".

This increase is not unexpected given the consistency of these major initiatives. And while there is an increased expense in the short-term, it is believed that this is the result of stabilizing the staffing level and realigning the expenses to reflect existing contracts and upcoming projects. The stabilization and realignment will result in a more effective utility in the long-run to better manage the use of resources.





### **Effective Utility Management Measures**

The key performance indicators listed below provides an indication of where the focus of the Facility Operations Area is and what the group strives to achieve.

- Project Budgeting & Tracking
- ❖ Facility Maintenance Completion



# **Capital Outlay**

Facility Operations capital outlay is funded by the Improvement & Extension (I&E) budget.

		FY 2020		FY 2021	ı	Y 2022	ı	FY 2023	F	FY 2024
Capital Outlay	Re	equested	Re	quested	Re	quested	Re	quested	Re	quested
Facility Operations	\$	125,000	\$	125,000	\$	125,000	\$	125,000	\$	125,000
Chiller Replacement - DeCal		15,000		15,000		15,000		15,000		15,000
Condensate Pump System		10,000		10,000		10,000		10,000		10,000
Furniture ensemble to include Desk, Credenza; File Cabinet, Guest/Task chairs		50,000		50,000		50,000		50,000		50,000
Furniture ensemble to include Desk, Credenza; File Cabinet, Guest/Task chairs		50,000		50,000		50,000		50,000		50,000
Grand Total	Ś	125,000	Ś	125,000	Ś	125,000	Ś	125,000	Ś	125,000

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in report order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



			FY 2018						
	FY	2018 Amended	Activity thru	FY 2019 Board	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	T	Budget	06.30.2018	<b>Adopted Budget</b>	Requested	Requested	Requested	Requested	Requested
882421 - Facility Operations	\$	7,764,800	\$ 7,774,100	\$ 7,581,500	\$ 8,538,200	\$ 8,593,300	\$ 8,649,500	\$ 8,707,100	\$ 8,766,600
2.1 Salaries & Wages		1,169,300	1,170,700	1,575,500	1,560,100	1,560,100	1,560,100	1,560,100	1,560,100
2.3 Overtime		20,000	21,700	108,000	25,000	25,000	25,000	25,000	25,000
2.4 Employee Benefits		441,600	396,800	518,100	505,300	515,400	525,700	536,300	547,000
2.6 Personnel Transition Adjustment		(143,000)	-	(70,000)	-	-	-	-	-
4.2 Supplies & Other		1,493,500	731,100	1,110,000	963,200	972,000	980,800	989,700	989,700
Capital Outlay less than \$5,000		90,000	87,800	50,000	100,000	100,000	100,000	100,000	100,000
Employee Uniform Expense		25,000	1,600	50,000	15,000	15,000	15,000	15,000	15,000
Inspection and Permit Fees		25,000	1,700	50,000	10,000	10,000	10,000	10,000	10,000
Memberships, Licenses & Subscriptions		9,800	700	7,000	2,500	2,500	2,500	2,500	2,500
Mileage and Parking		2,000	200	2,000	2,000	2,100	2,100	2,200	2,200
Office Supplies		27,300	15,200	20,000	20,400	20,800	21,200	21,600	21,600
Operating Supplies		250,000	234,700	250,000	291,000	292,000	293,000	294,000	294,000
Operating Supplies-Fuel		-	-	-	-	-	-	-	-
Operating Supplies-Janitorial		13,500	8,800	13,500	13,800	14,000	14,300	14,600	14,600
Rentals-Buildings		44,000	-	44,000	20,000	20,000	20,000	20,000	20,000
Rentals-Miscellaneous		100,000	18,100	100,000	25,000	25,000	25,000	25,000	25,000
Repairs & Maintenance-Buildings & Ground		889,400	359,500	491,000	448,000	455,000	462,100	469,100	469,100
Repairs & Maintenance-Equipment		-	200	-	-	-	-	-	-
Training and Internal Meetings		10,000	100	25,000	10,000	10,000	10,000	10,000	10,000
Travel		2,500	1,000	2,500	2,500	2,600	2,600	2,700	2,700
Tuition Refund		5,000	1,500	5,000	3,000	3,000	3,000	3,000	3,000
4.3 Contractual Services		4,852,000	5,392,900	4,106,000	5,546,400	5,583,800	5,622,100	5,661,400	5,710,200
Contractual Buildings & Grounds Maint		2,458,000	2,241,000	2,000,000	2,330,400	2,305,800	2,281,200	2,256,600	2,256,600
Contractual Operating Services		2,394,000	3,151,900	2,106,000	3,216,000	3,278,000	3,340,900	3,404,800	3,453,600
5.1 Capital Program Allocation		(60,600)	-	(60,600)	(61,800)	(63,000)	(64,200)	(65,400)	(65,400)
Capital Program: Salaries & Wages-Direct		(60,600)	-	(60,600)	(61,800)	(63,000)	(64,200)	(65,400)	(65,400)
5.2 Shared Services		(8,000)	54,600	(8,000)	-	-	-	-	-
Shared Services : Salaries & Wages Reimb		(8,000)	40,100	(8,000)	-	-	-	-	-
Shared Services: Employee Benefit Reimb		-	14,500	-	-	-	-	-	-
6.0 Capital Outlay		-	6,300	302,500	-	-	-	-	-
Capital Outlay over \$5k(O&M-Capitalized)		-	6,300	302,500	-	-	-	-	-
Grand Total	\$	7,764,800	\$ 7,774,100	\$ 7,581,500	\$ 8,538,200	\$ 8,593,300	\$ 8,649,500	\$ 8,707,100	\$ 8,766,600



## **Highlights**

## The Fleet Operations Area strategic initiatives include:

### **!** Improving vehicle efficiency:

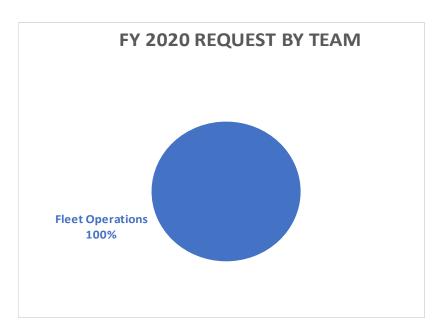
Ensure vehicles are properly maintained, functioning properly and safely as well as matched to the job requirements to support GLWA's specific operations

# **Proper staffing levels:**

Ensure adequate proactive fleet maintenance and upgrades

### **Organization**

The GLWA Fleet Operations Area is responsible for maintaining and managing all vehicles, such as the cars, trucks, lifts, vactors, etc. associated with the water and wastewater system while ensuring vehicles and equipment are properly matched to the job requirements and functioning properly and safely.



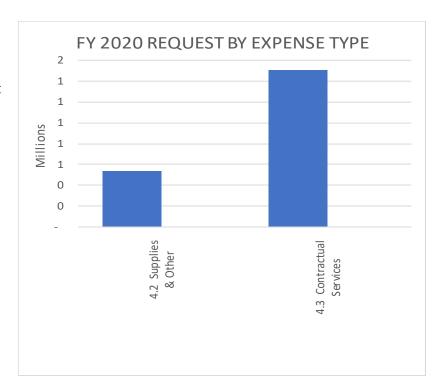


### **Expense Categories**

There is one major category of Fleet Operations expenses in the Operations and Maintenance Budget as listed below.

#### Contractual Services

Contractual Services is the highest expense category for Fleet Operations. The level of contractual services reflects the shared service agreement with Detroit Water and Sewerage Department (DWSD) to manage and maintain all fleet vehicles (\$1.5 million).





# **Biennial Budget Request**

The biennial reflects a decrease in FY 2020 as a result of stabilizing the contractual services DWSD shared services agreement (OPS-001 – Fleet).

Biennial Budget Request by Expense Category

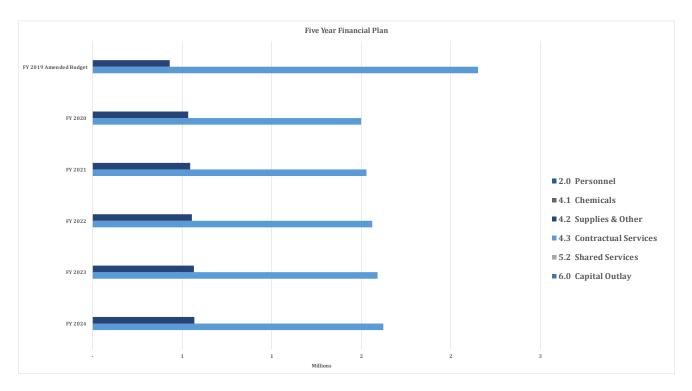
Expense Category	<b>,</b> ▼ Ame	FY 2018 nded Budget	2018 Activity 1 06.30.2018	FY 2019 Amended Budge		FY 2020 Department Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance	FY 2021 Departme Requeste	nt
2.0 Personnel		-	-			-	•	N/A	-	
4.1 Chemicals		-	-	•		-	•	N/A		
4.2 Supplies & Other		587,200	561,300	431,000	)	534,500	103,500	24.0%	544,8	00
4.3 Contractual Services		1,530,900	1,524,500	2,150,900	)	1,500,000	(650,900)	-30.3%	1,530,0	00
5.2 Shared Services		-	-	•		-	•	N/A		
6.0 Capital Outlay		-	-			-	•	N/A	-	
Grand Total	\$	2,118,100	\$ 2,085,800	\$ 2,581,900	\$	2,034,500	\$(547,400)	-21.2%	\$ 2,074,8	00

#### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

Expense Category	Ţ,	FY 2019 Amended Budget	FY 2020 Department Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
2.0 Personnel		-	-	-	N/A	-	-		-
4.1 Chemicals		-	-	-	N/A	-	-	-	-
4.2 Supplies & Other		431,000	534,500	103,500	24.0%	544,800	555,300	565,700	567,600
4.3 Contractual Services		2,150,900	1,500,000	(650,900)	-30.3%	1,530,000	1,560,600	1,591,800	1,623,600
5.2 Shared Services			-	-	N/A		-		
6.0 Capital Outlay		-	-	-	N/A	-	-	-	-
Grand Total		2,581,900	2,034,500	(547,400)	-21.2%	\$ 2,074,800	\$ 2,115,900	\$ 2,157,500	\$ 2,191,200



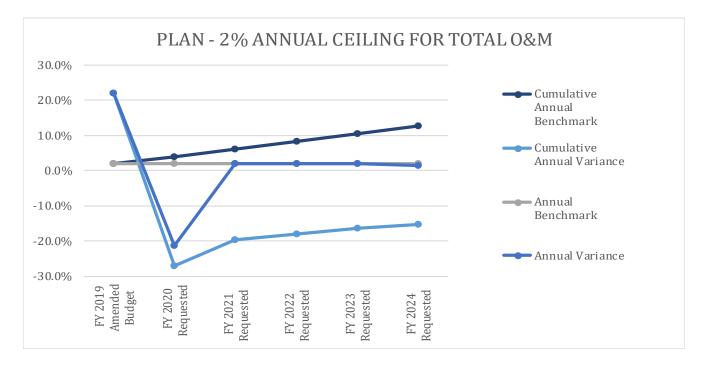


### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Fleet Operations Group's financial plan reflects a Five Year Overall decrease of 15.1% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated 0&M reserve".

This decrease is not unexpected given the consistency of these major initiatives. And while there is a decreased expense in the short-term, it is believed that this is the result of realigning the expenses to reflect existing contracts and upcoming projects. The realignment will result in a more effective utility in the long-run to better manage the use of resources.





# **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft"

# **Capital Outlay**

Fleet Operations capital outlay is funded by the Improvement & Extension (I&E) budget.

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Capital Outlay	Requested	Requested	Requested	Requested	Requested
Fleet Operations	\$1,510,141	\$2,542,586	\$2,305,242	\$3,011,599	\$ 777,287
Flail Mower (Lake Huron WTP)	-	-	-	4,000	-
Ford F-350 (Extended Cab) Seats 5-6 Carry Engineering tools and equipment					
(Water Engineering request)	-	-	50,000	-	-
Front Loader Tractor (Lake Huron WTP)	-	-	-	70,000	-
Information from Vehicle Spreadsheet	1,040,141	2,072,586	1,785,242	2,922,599	777,287
Motorized utility cart for snow removal and equipment transport (Southwest					
WTP)	-	-	-	15,000	-
Vactor/JetRodder	470,000	470,000	470,000	-	-
Grand Total	\$1,510,141	\$2,542,586	\$2,305,242	\$3,011,599	\$ 777,287



# **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget is reflected below. The expenses are listed in report order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

			FY 2018							
		FY 2018 Amended	Activity thru	F	Y 2019 Board	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	"T	Budget	06.30.2018	Ad	opted Budget	Requested	Requested	Requested	Requested	Requested
882422 - Fleet Operations	\$	2,118,100	\$ 2,085,800	\$	2,581,900	\$ 2,034,500	\$ 2,074,800	\$ 2,115,900	\$ 2,157,500	\$ 2,191,200
4.2 Supplies & Other										
Inspection and Permit Fees		1,000	100		1,000	1,000	1,000	1,100	1,100	1,100
Operating Supplies-Automotive		5,000	1,600		5,000	10,000	10,000	10,100	10,100	10,100
Repairs & Maintenance-Automotive		75,000	49,900		75,000	76,500	78,000	79,500	81,000	81,000
Operating Supplies – Fuel		506,200	509,700		350,000	447,000	455,800	464,600	473,500	475,400
4.3 Contractual Services										
Contractual Operating Services		1,530,900	1,524,500		2,150,900	1,500,000	1,530,000	1,560,600	1,591,800	1,623,600
Grand Total	\$	2,118,100	\$ 2,085,800	\$	2,581,900	\$ 2,034,500	\$ 2,074,800	\$ 2,115,900	\$ 2,157,500	\$ 2,191,200

Page 6 of 6



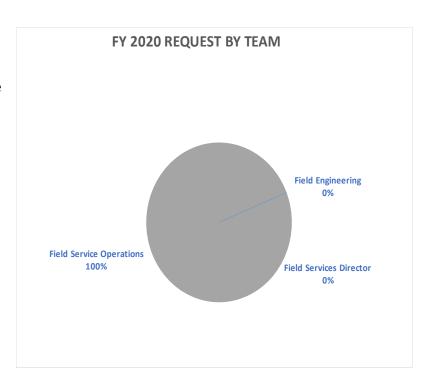
# **Highlights**

## The Field Service Operations Area strategic initiatives include:

- ❖ Improving buildings and grounds efficiency Ensure facilities, buildings and grounds are properly maintained, secure, environmentally safe and upgraded to support GLWA's specific operations
- ❖ Proper staffing levels
   Ensure adequate staffing levels in order to increase proactive facility maintenance

### **Organization**

The GLWA Field Service Operations Area is responsible for ensuring reliable service of customer delivery and collection in the water system, as well as all associated equipment, such as valves, gates, interceptors and siphons.





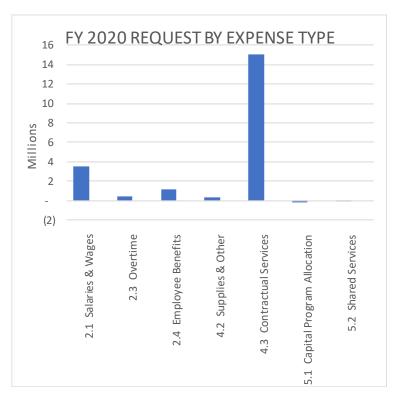
### **Expense Categories**

There are two major categories of Field Service Operations expenses in the Operations and Maintenance Budget as listed below.

- Contractual Services
- Salaries & Wages

Contractual Services is the highest expense category for Field Service Operations. The level of contractual services supports the complex nature of the water transmission and wastewater collection system as well as the efficient management of peak workload activities.

The Field Service Operations Area is reaching a steady state in staffing and accommodating the higher level of expertise required in order to reduce the



utilization of contracts. Accordingly, salaries & wages is the second highest expense category.



### **Biennial Budget Request**

The biennial reflects an overall decrease in FY 2020 as a result of personnel reaching a steady state with minimal use of contractual transitional services. The contractual services increase is largely comprised of a restructuring between Systems Control and Field Service Operations. The pumping stations portion of the Lakeshore Global Corporation contract was transferred to Field Service Operations from Systems Control which increased contractual services by \$1.8 million.

#### Biennial Budget Request by Expense Category

Expense Category	Ţ Am	FY 2018 ended Budget	2018 Activity ru 06.30.2018	Am	FY 2019 ended Budget	FY 2020 Department Requested	FY 2020 Dollar Variance	P	7 2020 ercent riance	De	FY 2021 partment equested
2.0 Personnel	\$	4,990,200	\$ 5,057,100	\$	6,552,200	\$ 5,214,200	\$ (1,877,300)		-26.5%	\$	5,238,600
3.1 Electric			-		-	-	-	N/A			•
3.2 Gas		-	-		-	-	•	N/A			-
3.3 Sewage Service		•	-		-	•	•	N/A			-
3.4 Water Service		-	-		-	-	-	N/A			
4.1 Chemicals		•	-		-	•	•	N/A			-
4.2 Supplies & Other		474,100	220,500		849,700	402,700	(489,000)		-54.8%		388,100
4.3 Contractual Services		11,305,000	11,326,000		12,983,200	15,021,300	2,038,100		15.7%	1	5,251,700
5.1 Capital Program Allocation		(170,000)	(65,900)		(147,300)	(128,400)	41,600		-24.5%		(128,900)
5.2 Shared Services		•	33,300		-	(16,700)	(16,700)	N/A			(17,000)
6.0 Capital Outlay		-	-		-	•	-	N/A			
Grand Total	\$	16,599,300	\$ 16,571,000	\$	20,237,800	\$ 20,493,100	\$ (303,300)		-1.5%	\$ 2	0,732,500

### Biennial Budget Request by Team

							FY 2020	FY 2020	FY 2020	FY 2021
		FY 2018	FY	2018 Activity		FY 2019	Department	Dollar	Percent	Department
Team	,▼ An	nended Budget	thr	ru 06.30.2018	Am	ended Budget	Requested	Variance	Variance	Requested
Field Engineering	\$	900,500	\$	899,100	\$	-	\$ -	\$ (1,472,100)	-100.0%	\$ -
Field Service Operations		11,998,500		11,989,700		20,237,800	20,493,100	6,858,400	50.3%	20,732,500
Field Services Director		3,700,300		3,682,200		-	-	(5,689,600)	-100.0%	-
Grand Total	\$	16,599,300	\$	16,571,000	\$	20,237,800	\$ 20,493,100	\$ (303,300)	-1.5%	\$ 20,732,500

## **Personnel Budget**

Field Service Operations personnel consists of 65 positions for FY 2020. During FY 2018, thirty-four (34) staffing and contract positions were transferred to Field Service Operations from Systems Control and five (5) staffing positions were transferred to other water operating areas) and is largely comprised of operations staffing that perform a variety of skilled field work relative to the operations and maintenance of water and wastewater systems. The staffing level is in the tables below.

The following tables provide three alternate views of the staffing plans and budget.

*Staffing Plan* - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.



### Staffing Plan – Number of Positions

	Prior Year	<b>Current Year</b>	Biennia	l Budget	Forecast			
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
Cost Center	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	
Field Service Operations	44.00	65.00	65.00	65.00	65.00	65.00	65.00	
Field Services Director	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
Field Engineering	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
Field Service Operations	26.00	65.00	65.00	65.00	65.00	65.00	65.00	

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### *Full-time Equivalents*

	Prior Year	Current Year	Biennial	Budget		Forecast	
	FY 2018	FY 2019					
	Approved	Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's
Field Services	44.00	65.00	65.00	65.00	65.00	65.00	65.00
Field Services Director	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Field Engineering	17.00	0.00	0.00	0.00	0.00	0.00	0.00
Field Service Operations	26.00	65.00	65.00	65.00	65.00	65.00	65.00

*Personnel Budget* - The table below presents the Water Operations personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.

### Personnel Budget

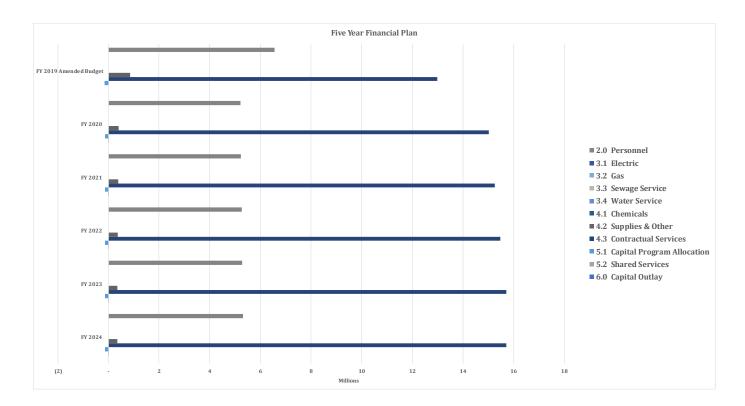
	P	Prior Year Current Year		Biennia	l Budget	Forecast			
		FY 2018 FY 2019		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
	<i>A</i>	Approved	Approved	Requested	Requested	Requested	Requested	Requested	
Cost Center		Budget	Budget	Budget	Budget	Budget	Budget	Budget	
Field Services	\$	5,147,200	\$ 6,552,200	\$ 5,214,200	\$ 5,238,600	\$ 5,263,500	\$ 5,289,000	\$ 5,314,900	
Field Services Director		2,807,700	-	-	-	-	-	-	
Field Engineering		783,400	-	-	-	-	-	-	
Field Service Operations		1,556,100	6,552,200	5,214,200	5,238,600	5,263,500	5,289,000	5,314,900	



#### **Five Year Financial Plan**

# Five-Year Financial Plan by Expense Category

Expense Category	<b>,</b> T	FY 2019 Amended Budget	FY 2020 Department Requested	FY 2020 Dollar Variance	FY 20 Perce Varian	nt	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
2.0 Personnel		\$ 6,552,200	\$ 5,214,200	\$(1,877,300)	-20	6.5%	\$ 5,238,600	\$ 5,263,500	\$ 5,289,000	\$ 5,314,900
3.1 Electric		-	-	-	N/A		-	-	-	
3.2 Gas			-	-	N/A		-	-	-	-
3.3 Sewage Service		-	-	-	N/A		-	-	-	
3.4 Water Service		-	-	-	N/A		-	-	-	-
4.1 Chemicals			-	-	N/A		-	-	-	-
4.2 Supplies & Other		849,700	402,700	(489,000)	-54	4.8%	388,100	373,700	359,100	359,100
4.3 Contractual Services		12,983,200	15,021,300	2,038,100	15	5.7%	15,251,700	15,482,100	15,712,700	15,716,900
5.1 Capital Program Allocation		(147,300)	(128,400)	41,600	-24	4.5%	(128,900)	(129,400)	(129,900)	(130,400)
5.2 Shared Services			(16,700)	(16,700)	N/A		(17,000)	(17,300)	(17,600)	(17,900)
6.0 Capital Outlay		-	-	-	N/A		-	-	-	-
Grand Total		\$ 20,237,800	\$ 20,493,100	\$ (303,300)	-1	1.5%	\$ 20,732,500	\$ 20,972,600	\$ 21,213,300	\$ 21,242,600



# Five-Year Financial Plan by Team

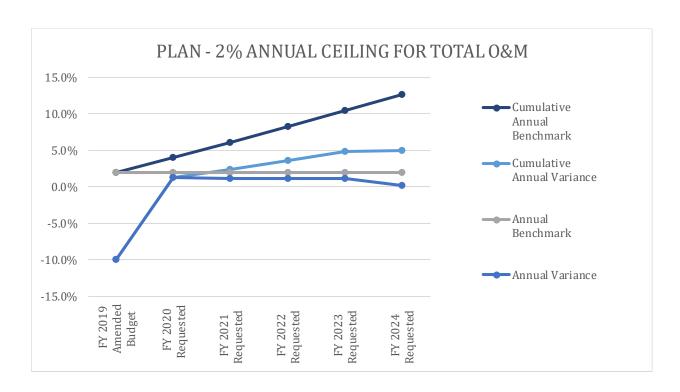
		FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	FY 2019	Department	Dollar	Percent	Department	Department	Department	Department
Expense Category	Amended Budge	t Requested	Variance	Variance	Requested	Requested	Requested	Requested
Field Engineering	\$	- \$	\$ (1,472,100)	-100.0%	\$ -	\$ -	\$ -	\$ -
Field Service Operations	20,237,80	20,493,100	6,858,400	50.3%	20,732,500	20,972,600	21,213,300	21,242,600
Field Services Director			(5,689,600)	-100.0%	-	-	-	-
Grand Total	\$ 20,237,800	\$ 20,493,100	\$ (303,300)	-1.5%	\$20,732,500	\$20,972,600	\$21,213,300	\$21,242,600



### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Field Service Operations Group's financial plan reflects a Five Year Overall increase of 5.0% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated 0&M reserve".

This increase is not unexpected given the consistency of these major initiatives. And while there is an increased expense in the short-term, it is believed that this is the result of stabilizing the staffing level and realigning the expenses to reflect existing contracts and upcoming projects. The stabilization and realignment will result in a more effective utility in the long-run to better manage the use of resources.



#### **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft"



# **Capital Outlay**

[Currently not a component of this group]

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in report order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



	EV	2018 Amended	FY 2018	FY 2019 Board	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	TT FT	Budget	06.30.2018	Adopted Budget	Requested	Requested	Requested	Requested	Requested
882401 - Field Services Director	1.5	\$4,993,400	\$3,682,200	\$5,689,600	\$0	\$0	\$0	\$0	so \$0
2.1 Salaries & Wages		1,420,300	1,170,400	1,229,400	-	-	-	-	-
2.3 Overtime		100,000	96,600	201,400	_	_	_	_	_
2.4 Employee Benefits		493,300	316,000	413,200	-	_	-	_	_
2.5 Transition Services		1,484,700	1,191,700	2,350,000	-	_	-	-	_
4.2 Supplies & Other		110,500	50,300	111,000	_	_	_	_	_
Employee Uniform Expense		10,000	8,100	10,000	-	-	-	-	_
Memberships, Licenses & Subscriptions		5,000	1,800	3,000	-	-	-	-	_
Office Supplies		5,500	1,400	5,000	-	-	-	-	-
Operating Supplies		30,000	22,500	30,000	-	-	-	-	-
Training and Internal Meetings		50,000	12,700	50,000	-	-	-	-	-
Travel		10,000	2,800	10,000	-	-	-	-	-
Tuition Refund		-	1,000	3,000	-	-	-	-	-
4.3 Contractual Services		1,400,000	857,200	1,400,000	-	-	-	-	-
5.1 Capital Program Allocation		(15,400)	-	(15,400)	-	-	-	-	-
882411 - Field Engineering		1,378,800	899,100	1,472,100	-	-	-	-	-
2.1 Salaries & Wages		897,700	493,900	810,200	-	-	-	-	-
2.3 Overtime		125,000	87,800	150,000	-	-	-	-	-
2.4 Employee Benefits		334,500	191,300	293,300	-	-	-	-	-
2.5 Transition Services		-	10,900	-	-	-	-	-	-
2.6 Personnel Transition Adjustment		(145,000)	-	-	-	-	-	-	-
4.2 Supplies & Other		62,000	21,800	94,100	-	-	-	-	-
Employee Uniform Expense		2,000	1,200	5,000	-	-	-	-	-
Inspection and Permit Fees		11,000	2,000	11,000	-	-	-	-	-
Memberships, Licenses & Subscriptions		8,500	-	32,600	-	-	-	-	-
Mileage and Parking		10,000	7,700	15,000	-	-	-	-	-
Office Supplies		5,500	1,200	4,000	-	-	-	-	-
Operating Supplies		15,000	8,800	21,500	-	-	-	-	-
Travel		10,000	900	5,000	-	-	-	-	-
4.3 Contractual Services		150,000	126,000	169,900	-	-	-	-	-
5.1 Capital Program Allocation		(45,400)	(65,900)	(45,400)	-	-	-	-	-
5.2 Shared Services		-	33,300	-	-	-	-	-	-
Shared Services : Salaries & Wages Reimb		-	23,800	-	-	-	-	-	-
Shared Services: Employee Benefit Reimb		-	9,500	-	-	-	-	-	-
882431 - Field Service Operations		16,102,500	11,989,700	13,634,700	20,493,100	20,732,500	20,972,600	21,213,300	21,242,600
2.1 Salaries & Wages		1,338,300	895,900	1,027,500	3,561,900	3,561,900	3,561,900	3,561,900	3,561,900
2.3 Overtime		600,000	138,400	192,000	431,000	431,000	431,000	431,000	431,000
2.4 Employee Benefits 2.5 Transition Services		521,800	464,200	424,500	1,221,300	1,245,700	1,270,600	1,296,100	1,322,000
2.6 Personnel Transition Adjustment		(157,000)	-	-	-	-	-	-	-
4.2 Supplies & Other			149 400	686,600	402 700	200 100	272 700	250 100	250 100
Employee Uniform Expense		<b>1,188,600</b> 4,000	<b>148,400</b> 2,600	•	<b>402,700</b> 27,500	<b>388,100</b> 27,500	373,700	<b>359,100</b> 27,500	3 <b>59,10</b> 0 27,500
Inspection and Permit Fees		8,300	2,000	25,000 7,600	12,700	12,700	27,500 12,700	12,700	12,700
Memberships, Licenses & Subscriptions		800	200	1,000	20,300	20,300	20,400	20,400	20,400
		500	_						
Mileage and Parking Office Supplies		20,000	4,900	1,000 7,000	8,000 11,500	8,000 11,500	8,100 11,500	8,100 11,500	8,100 11,500
Operating Supplies		1,000,000	141,100	500,000	237,200	222,600	208,000	193,400	193,400
Rentals-Miscellaneous		55,000	-	45,000	20,000	20,000	20,000	20,000	20,000
Repairs & Maintenance-Equipment		100,000	(400)		-	-	-	20,000	20,000
Training and Internal Meetings		-	(400)	-	50,000	50,000	50,000	50,000	50,000
Travel		_	-	-	12,500	12,500	12,500	12,500	12,500
Tuition Refund		_	_	-	3,000	3,000	3,000	3,000	3,000
4.3 Contractual Services		12,720,000	10,342,800	11,413,300	15,021,300	15,251,700	15,482,100	15,712,700	15,716,900
5.1 Capital Program Allocation		(109,200)	-	(109,200)	(128,400)	(128,900)	(129,400)	(129,900)	(130,40
5.2 Shared Services		-	_	-	(16,700)	(17,000)	(17,300)	(17,600)	(17,90
Shared Services : Salaries & Wages Reimb		_	_	-	(10,600)	(10,800)	(11,000)	(11,200)	(11,40
Shared Services Reimbursement		_	_	_	(1,800)	(1,800)	(1,800)	(1,800)	(1,800
Shared Services: Employee Benefit Reimb		_	_	-	(4,300)	(4,400)	(4,500)	(4,600)	(4,700
6.0 Capital Outlay		_	_	_	-	- ( -, 2)		-	-
Grand Total	\$	22 474 722	\$ 16,571,000	Å 20.705.400	ć 20 402 400	\$ 20,732,500	ć 20.072.600	ć 24 242 200	A 04 040 504



## **Highlights**

### The Systems Control Area strategic initiatives include:

### Control Systems Enhancement

Drive the use of Ovation (distributed control system) and OSIsoft PI (application software for real-time data infrastructure solutions called process information) systems for technology enhancement and analytics

### **❖** Operational Efficiency

Improve operational efficiency, maintain regulatory and environmental compliance, and accommodate future systems expansion.

Implement real-time pump curves at all booster stations for pump efficiency monitoring.

## **Organization**

The GLWA Systems Control Area operates the water transmission system by controlling & monitoring the distribution of water throughout the Regional Water System. The treatment and distribution system is controlled by an award-winning state of the arts Supervisory Control and Data Acquisition (SCADA) system. Operators remotely control the many pumps and valves that allow the system to deliver water to all communities. Access to real-time data from throughout the system allows quicker response, reaction, detection and isolation of system leaks and rapidly changing conditions such as storm water inflow.





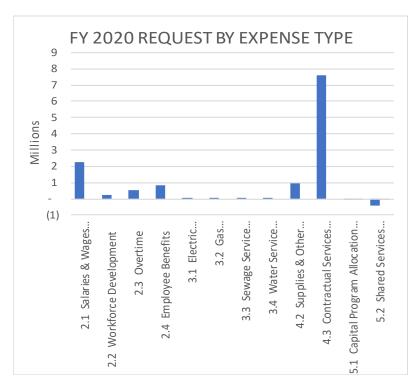
## **Expense Categories**

There are two major categories of Systems Control expenses in the Operations and Maintenance Budget as listed below.

- Contractual Services
- Salaries & Wages

Contractual Services is the highest expense category for Systems Control. Contractual services are heavily utilized in the Systems Control group to perform various maintenance, monitoring and evaluations of the distribution systems to maintain operational readiness.

The Systems Control Area is required to obtain a consistent level of personnel which is the result of staff restructuring



on the basis of continuous improvement and workload balancing for efficiency. Accordingly, salaries & wages is the second highest expense category.



## **Biennial Budget Request**

The biennial reflects an overall decrease in FY 2020 as a result of a restructuring between Field Service Operations and Systems Control. The water booster stations and sewer lift stations portion of the Lakeshore Global Corporation contract was transferred from Systems Control to Field Service Operations which decreased contractual services by \$1.8 million. A combination of other contractual services decreased by \$1 million which includes the labor, material and maintenance for electrical switchgear and power transformers contract.

## Biennial Budget Request by Expense Category

		FY 2018	FY	2018 Activity	FY 20	019	D	FY 2020 Department	FY 2020 Dollar	FY 2020 Percent	D	FY 2021 Department
Expense Category	"T Am	ended Budget	thr	u 06.30.2018	Amended	Budget	]	Requested	Variance	Variance	]	Requested
2.0 Personnel		4,460,300		5,559,600	3,9	67,700		3,824,200	(143,500)	-3.6%		3,840,700
3.1 Electric		60,000		60,700		50,000		51,000	1,000	2.0%		52,000
3.2 Gas		36,000		100		25,000		10,100	(14,900)	-59.6%		10,200
3.3 Sewage Service		8,000		9,800		17,000		16,000	(1,000)	-5.9%		16,000
3.4 Water Service		5,000		500		5,000		1,000	(4,000)	-80.0%		1,000
4.2 Supplies & Other		1,173,800		872,500	9	949,100		945,800	(3,300)	-0.3%		954,900
4.3 Contractual Services		7,014,000		5,902,200	10,3	309,000		7,603,100	(2,705,900)	-26.2%		7,629,300
5.1 Capital Program Allocation		(71,400)		(59,400)		(71,400)		(82,300)	(10,900)	15.3%		(82,600)
5.2 Shared Services		(993,600)		(669,400)	(9	93,600)		(429,200)	564,400	-56.8%		(437,800)
6.0 Capital Outlay		-		71,500		40,000		-	(40,000)	-100.0%		-
Grand Total	\$	11,692,100	\$	11,748,100	\$ 14,2	97,800	\$	11,939,700	\$ (2,358,100)	-16.5%	\$	11,983,700

## Biennial Budget Request by Team

							FY 2020		FY 2020	FY 2020	FY 2021
		FY 2018	FY	2018 Activity	F	Y 2019	Department	t	Dollar	Percent	Department
Team	,▼ Am	ended Budget	thru	u 06.30.2018	Amen	ded Budget	Requested		Variance	Variance	Requested
Systems Operations Control		11,692,100		11,748,100	:	14,297,800	11,939,70	0	(2,358,100)	-16.5%	11,983,700
Grand Total	\$	11,692,100	\$	11,748,100	\$ :	14,297,800	\$ 11,939,70	0 \$	(2,358,100)	-16.5%	\$ 11,983,700

Draft 12.20.2018 Page 3 of 8



### **Personnel Budget**

Systems Control personnel consists of 43 positions for FY 2020. During FY 2018, thirty-four (34) staffing and contract positions were transferred to Field Service Operations and two (2) staffing positions were transferred to other water operating areas. Systems Control is largely comprised of technicians that operate and maintain instrumentation equipment in the water and wastewater operations, field services, pumping stations, electrical systems, computerized process controls, and equipment.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

## Staffing Plan - Number of Positions

	Prior Year	<b>Current Year</b>	Biennia	l Budget			
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2024	
Cost Center	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan
Systems Control	79.00	43.00	43.00	43.00	43.00	43.00	43.00

Full-time Equivalents - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### *Full-time Equivalents*

	Prior Year	Current Year	Biennia	Budget			
	FY 2018	FY 2019					
	Approved	Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's
Systems Control	79.00	43.00	43.00	43.00	43.00	43.00	43.00

*Personnel Budget* - The table below presents the Water Operations personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.



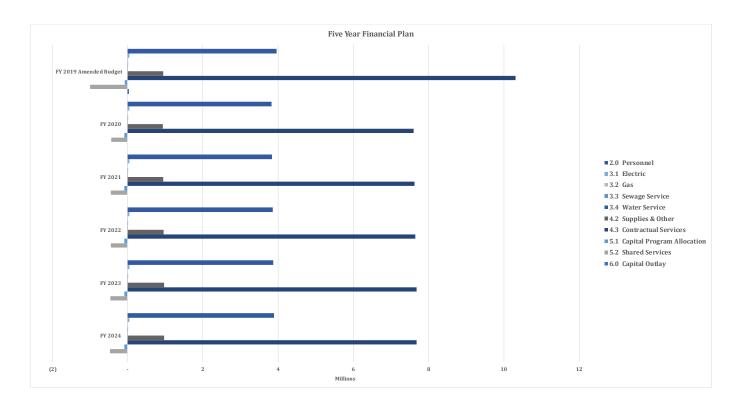
# Personnel Budget

	Prior Year	<b>Current Year</b>	Biennial	Budget			
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Approved	Approved	Requested	Requested	Requested	Requested	Requested
Cost Center	Budget	Budget	Budget	Budget	Budget	Budget	Budget
Systems Control	\$ 5,160,300	\$ 4,142,700	\$ 3,824,200	\$ 3,840,700	\$ 3,857,600	\$ 3,874,800	\$ 3,892,400

## **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

		FY 2019 Amended	FY 2020 Department	FY 2020 Dollar	FY 2020 Percent	FY 2021 Department	FY 2022 Department	FY 2023 Department	FY 2024 Department
Expense Category	r	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
2.0 Personnel	\$	3,967,700	\$ 3,824,200	\$ (143,500)	-3.6%	\$ 3,840,700	\$ 3,857,600	\$ 3,874,800	\$ 3,892,400
3.1 Electric		50,000	51,000	1,000	2.0%	52,000	53,000	54,000	54,000
3.2 Gas		25,000	10,100	(14,900)	-59.6%	10,200	10,300	10,400	10,400
3.3 Sewage Service		17,000	16,000	(1,000)	-5.9%	16,000	16,000	16,000	16,000
3.4 Water Service		5,000	1,000	(4,000)	-80.0%	1,000	1,000	1,000	1,000
4.2 Supplies & Other		949,100	945,800	(3,300)	-0.3%	954,900	964,300	973,400	973,400
4.3 Contractual Services		10,309,000	7,603,100	(2,705,900)	-26.2%	7,629,300	7,655,400	7,681,600	7,681,600
5.1 Capital Program Allocation		(71,400)	(82,300)	(10,900)	15.3%	(82,600)	(83,000)	(83,300)	(83,600)
5.2 Shared Services		(993,600)	(429,200)	564,400	-56.8%	(437,800)	(446,600)	(455,500)	(464,600)
6.0 Capital Outlay		40,000	-	(40,000)	-100.0%	-	-	-	-
Grand Total	\$	14,297,800	\$ 11,939,700	\$(2,358,100)	-16.5%	\$ 11,983,700	\$ 12,028,000	\$ 12,072,400	\$ 12,080,600





## Five-Year Financial Plan by Team

		FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
		Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team	TT	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
Systems Operations Control	5	14,297,800	\$11,939,700	\$ (2,358,100)	-16.5%	\$11,983,700	\$12,028,000	\$12,072,400	\$12,080,600
Grand Total	5	14,297,800	\$11,939,700	\$ (2,358,100)	-16.5%	\$11,983,700	\$12,028,000	\$12,072,400	\$12,080,600

## Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Systems Control Group's financial plan reflects a Five Year Overall decrease of 15.5% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated 0&M reserve".

This decrease is not unexpected given the consistency of these major initiatives. And while there is a decreased expense in the short-term, it is believed that this is the result of stabilizing the staffing level and realigning the expenses to reflect existing contracts and upcoming projects. The stabilization and realignment will result in a more effective utility in the long-run to better manage the use of resources.





# **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft"

## **Capital Outlay**

Systems Control capital outlay is funded by the Improvement & Extension (I&E) budget.

	_	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Capital Outlay	T.	Requested	Requested	Requested	Requested	Requested
Systems Operations Control	\$	2,750,000	\$ 2,950,000	\$ 2,500,000	\$ 2,950,000	\$ 2,750,000
Control System Upgrades and Integration		250,000	250,000	-	250,000	250,000
Instrumentation and Control System Upgrades and Integration		250,000	250,000	250,000	250,000	250,000
Motor/Pump Replacement/Rehabilitation		1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Process Control Software		75,000	75,000	75,000	75,000	75,000
UPS (Uninterrupted Power Supply)		-	200,000	-	200,000	-
Valve Replacement/Rehabilitation		300,000	300,000	300,000	300,000	300,000
Variable Frequency Drive Parts and Software Upgrades		300,000	300,000	300,000	300,000	300,000
Vibration Equipment		75,000	75,000	75,000	75,000	75,000
Grand Total	\$	2,750,000	\$ 2,950,000	\$ 2,500,000	\$ 2,950,000	\$ 2,750,000

# **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in report order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



	FY 2018	FY 2018	FY 2019					
	Amended	Activity thru	<b>Board Adopted</b>	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	<b>™</b> Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requested
882301 - Systems Operations Control	\$ 11,692,100	\$ 11,732,200	\$ 14,297,800	\$ 11,939,700	\$ 11,983,700	\$ 12,028,000	\$ 12,072,400	\$ 12,080,600
2.1 Salaries & Wages	2,288,100	2,271,700	1,945,300	2,230,800	2,230,800	2,230,800	2,230,800	2,230,800
2.2 Workforce Development	150,400	164,800	195,200	231,900	231,900	231,900	231,900	231,900
2.3 Overtime	600,000	686,700	533,600	533,600	533,600	533,600	533,600	533,600
2.4 Employee Benefits	860,000	877,900	808,600	827,900	844,400	861,300	878,500	896,100
2.5 Transition Services	1,261,800	1,558,500	660,000	-	-	-	-	-
2.6 Personnel Transition Adjustment	(700,000)	-	(175,000)	-	-	-	-	-
3.1 Electric	60,000	60,700	50,000	51,000	52,000	53,000	54,000	54,000
3.2 Gas	36,000	100	25,000	10,100	10,200	10,300	10,400	10,400
3.3 Sewage Service	8,000	9,800	17,000	16,000	16,000	16,000	16,000	16,000
3.4 Water Service	5,000	500	5,000	1,000	1,000	1,000	1,000	1,000
4.2 Supplies & Other	1,173,800	872,500	949,100	945,800	954,900	964,300	973,400	973,400
Capital Outlay less than \$5,000	135,000	135,700	100,000	102,000	104,000	106,000	108,000	108,000
Employee Uniform Expense	30,000	21,600	25,000	25,500	26,000	26,500	27,000	27,000
Inspection and Permit Fees	3,000	600	3,000	2,000	2,000	2,100	2,100	2,100
Memberships, Licenses & Subscriptions	20,000	10,400	12,000	12,200	12,500	12,700	13,000	13,000
Mileage and Parking	5,000	4,200	5,000	5,100	5,200	5,300	5,400	5,400
Office Supplies	20,000	13,900	15,100	15,400	15,700	16,000	16,300	16,300
Operating Supplies	275,000	190,700	278,000	210,100	210,700	211,300	211,900	211,900
Operating Supplies-Janitorial	4,000	2,200	3,000	3,100	3,100	3,200	3,200	3,200
Property Taxes	5,000	1,100	10,000	10,200	10,400	10,600	10,800	10,800
Rentals- Office Equipment	-	-	-	-	-	-	-	-
Rentals-Buildings	69,100	39,400	44,600	41,100	41,100	41,200	41,200	41,200
Repairs & Maintenance-Equipment	405,700	218,700	250,400	253,600	257,200	260,800	264,400	264,400
Repairs & Maintenance-Hardware	35,000	91,000	35,000	110,000	110,000	110,000	110,000	110,000
Repairs & Maintenance-Software	130,000	118,100	136,000	123,900	124,800	125,800	126,700	126,700
Training and Internal Meetings	25,000	14,800	20,000	20,400	20,800	21,200	21,600	21,600
Travel	10,000	9,300	10,000	10,200	10,400	10,600	10,800	10,800
Tuition Refund	2,000	800	2,000	1,000	1,000	1,000	1,000	1,000
4.3 Contractual Services	7,014,000	5,902,200	10,309,000	7,603,100	7,629,300	7,655,400	7,681,600	7,681,600
Contractual Buildings & Grounds Maint	169,000	189,500	152,000	202,000	202,100	202,100	202,200	202,200
Contractual Operating Services	1,674,700	1,600,400	6,657,000	2,765,900	2,766,800	2,767,700	2,768,600	2,768,600
Contractual Professional Services	5,170,300	4,112,300	3,500,000	4,635,200	4,660,400	4,685,600	4,710,800	4,710,800
5.1 Capital Program Allocation	(71,400)	(59,400)	(71,400)	(82,300)	(82,600)	(83,000)	(83,300)	(83,600
Capital Program: Employee Benefits	(29,600)	(16,900)	(29,600)	(23,000)	(23,100)	(23,200)	(23,300)	(23,400
Capital Program: Salaries & Wages-Direct	(41,800)	(42,500)	(41,800)	(59,300)	(59,500)	(59,800)	(60,000)	(60,200
5.2 Shared Services	(993,600)	(669,400)	(993,600)	(429,200)	(437,800)	(446,600)	(455,500)	(464,600
Shared Services : Salaries & Wages Reimb	(360,000)	(187,400)	(360,000)	(135,500)	(138,200)	(141,000)	(143,800)	(146,700
Shared Services Reimbursement	(633,600)	(429,300)	(633,600)	(239,600)	(244,400)	(249,300)	(254,300)	(259,400
Shared Services: Employee Benefit Reimb	-	(52,700)	-	(54,100)	(55,200)	(56,300)	(57,400)	(58,500
6.0 Capital Outlay	-	55,600	40,000	-	-	-	-	-
Grand Total	\$ 11,692,100	\$ 11,732,200	\$ 14,297,800	\$ 11,939,700	\$ 11,983,700	\$ 12,028,000	\$ 12,072,400	\$ 12,080,600



#### **Initiatives**

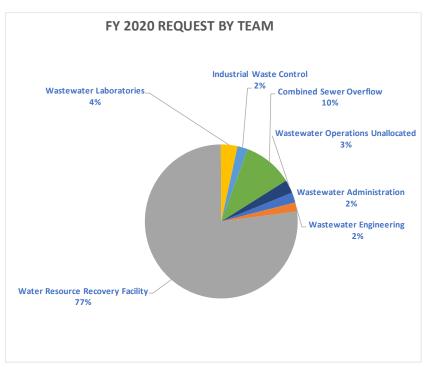
The Wastewater Operating Group pursues various initiatives including:

- **❖** Safeguarding the publics' health and the environment through compliance with the National Pollution Discharge Elimination System (NPDES).
- **❖** Monitor and improve the reliability of processing equipment by focusing on preventative and corrective maintenance programs.
- ❖ Continue to build a reliable workforce in accordance with the Michigan Department of Environmental Quality (MDEQ) staffing plan through the recruitment of talented individuals and implementation of apprenticeship programs.
- Optimize chemical and utility usage through real time monitoring systems and process upgrades.
- Continue investment in the wastewater infrastructure to replace or upgrade assets which have exceeded their useful life.
- **❖** Continue efforts towards innovation by working with the Research and Innovation Group to explore opportunities to partner with universities to conduct research at the Water Resource Recovery Facility (WRRF).

## **Organization**

The GLWA Wastewater Operations Area consists of five teams.

- ❖ Wastewater Administration - Overall budget management including unallocated reserve
- Water Resource Recovery Facility (WRRF) – processing plant for the treatment of sewage for the greater metropolitan area
- Wastewater Engineering provide Design, Construction and administration services for improvements to the WRRF and CSO facilities.
- Wastewater Laboratories monitoring of pollutants entering GLWA sewage facilities





- ❖ **Industrial Waste Control** identification and monitoring of industrial users for pollutants.
- Combined Sewer Overflow (CSO) facilities utilized to control flow volumes for protecting the system and the receiving waters during increased system demand such as during rain storms or snow melt.
- ❖ Wastewater Systems Unallocated Funds not apportioned for a specific purpose used for significant unexpected or unbudgeted expenditures.

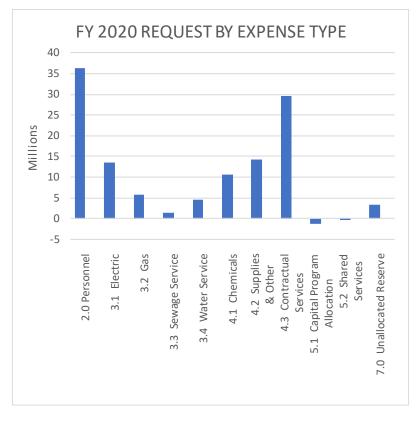
### **Expense Categories**

There are two major categories for Wastewater Operating Group. The expenses in the Operations and Maintenance Budget are listed below.

- Personnel Costs
- Contractual Services

In addition to the strategic initiatives noted above, the Wastewater Operations Group is tasked with the handling and disposal of the solids separated through the treatment process. The disposal of these materials make up the majority of contractual services expenditures.

As part of the disposal expenditures in 2016 the Bio-dryer Facility (BDF), operated by the New England Fertilizer Company, was commissioned. The new



facility greatly reducing the volume of solid waste incinerated or sent to landfill by processing the product into a renewable resource (fertilizer). Over the past year approximately 65% of the biological waste has been processed by the BDF.

Reliability of processing equipment is of primary concern for GLWA. As part of this effort the Administration of the Wastewater Operating Group has continued to focus on reinforcing a proactive maintenance program.



## **Biennial Budget Request**

The biennial budget reflects an increase in FY 2020 as a result of the ramp up of the strategic initiatives defined above.

#### Biennial Budget Request by Expense Category

	FY 2018 Amended	FY 2018 Activity thru	FY 2019 Amended	FY 2020 Department	FY 2020 Dollar	FY 2020 Percent	FY 2021 Department
Expense Category	<b>▼</b> Budget	06.30.2018	Budget	Requested	Variance	Variance	Requested
2.0 Personnel	37,302,000	35,353,900	35,145,000	36,219,200	1,074,200	3.1%	36,096,000
3.1 Electric	13,196,300	13,195,700	13,246,600	13,491,400	244,800	1.8%	13,722,300
3.2 Gas	5,701,200	5,657,500	5,694,300	5,844,600	150,300	2.6%	5,950,400
3.3 Sewage Service	1,255,800	1,254,900	1,783,700	1,380,200	(403,500)	-22.6%	1,391,900
3.4 Water Service	4,472,700	4,463,600	5,652,400	4,666,700	(985,700)	-17.4%	4,750,400
4.1 Chemicals	8,142,300	8,073,000	10,946,800	10,523,900	(422,900)	-3.9%	10,808,600
4.2 Supplies & Other	15,143,900	12,511,100	13,248,800	14,288,600	1,039,800	7.8%	13,746,800
4.3 Contractual Services	35,679,900	28,069,600	27,755,500	29,472,900	1,717,400	6.2%	31,099,500
5.1 Capital Program Allocation	(890,800)	(969,600)	(921,500)	(1,239,400)	(317,900)	34.5%	(1,244,900)
5.2 Shared Services	(209,300)	(209,700)	(6,400)	(154,300)	(147,900)	2310.9%	(157,400)
7.0 Unallocated Reserve	1,161,500	-	2,440,500	3,264,900	824,400	33.8%	3,976,300
Grand Total	\$ 120,955,500	\$ 107,400,000	\$ 114,985,700	\$ 117,758,700	\$ 2,773,000	2.4%	\$120,139,900

## Biennial Budget Request by Team

	-	Y 2018 ended	FY 2018 Activity thr		FY 2019 Amended	FY 2020 Department	F	Y 2020 Dollar	FY 2020 Percent		FY 2021 Department
Team	,▼ B	udget	06.30.2018	8	Budget	Requested		Variance	Variance		Requested
Wastewater Administration		1,700	4	00	1,688,300	2,511,100	)	822,800	48.	7%	2,538,200
Water Resource Recovery Facility	100	,586,500	91,159,2	00	87,693,700	90,641,400	)	2,947,700	3.	<b>1</b> %	92,640,200
Wastewater Engineering	3	,014,300	2,537,9	00	2,572,700	2,262,000	)	(310,700)	-12.	1%	1,965,300
Industrial Waste Control	5	,552,500	5,291,7	00	2,917,300	2,559,100	)	(358,200)	-12.	3%	2,595,700
Wastewater Laboratories		978,100	902,8	00	3,761,200	4,148,900	)	387,700	10.	3%	3,812,000
Combined Sewer Overflow	9	,660,900	7,508,0	00	13,912,000	12,371,300	)	(1,540,700)	-11.	1%	12,612,200
<b>Wastewater Operations Unallocated</b>	1	,161,500	-		2,440,500	3,264,900	)	824,400	33.	8%	3,976,300
Grand Total	\$ 120	,955,500	\$ 107,400,0	00	\$ 114,985,700	\$ 117,758,700	\$	2,773,000	2.	<b>1</b> %	\$ 120,139,900

### **Personnel Budget**

Wastewater Operations Group personnel expense is largely comprised of wastewater operations staffing of 440 positions. The WRRF staffing plan target is agreed upon with the Michigan Department of Environmental Quality.

The tables on the following page provide three alternate views of the staffing plan.

1. Staffing Plan- Number of Positions – The table on the following page presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.



## Staffing Plan

	Prior Years	Current Year	Biennia	l Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
Wastewater Administration	18.00	14.00	14.00	14.00	14.00	14.00	14.00
Water Resouce Recovery Facility	312.00	304.00	299.00	299.00	299.00	299.00	299.00
Wastewater Engineering	32.00	26.00	24.00	24.00	24.00	24.00	24.00
Wastewater Laboratories	25.00	33.00	38.00	38.00	38.00	38.00	38.00
Industrial Waste Control	31.00	30.00	29.00	29.00	29.00	29.00	29.00
Combined Sewer Overflow	18.00	33.00	36.00	36.00	36.00	36.00	36.00
Grand Total	436.00	440.00	440.00	440.00	440.00	440.00	440.00

2. *Full Time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

## Full Time Equivalents

	Prior Year	Current Year	Biennia	al Budget		Forecast	
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Approved	Approved	Requeste	Requested	Requested	Requested	Requested
Team	FTEs	FTEs	d FTEs	FTEs	FTEs	FTEs	FTEs
Wastewater Administration	18.00	14.00	14.00	14.00	14.00	14.00	14.00
Water Resouce Recovery Facility	308.50	299.50	294.00	299.00	299.00	299.00	299.00
Wastewater Engineering	32.00	26.00	24.00	24.00	24.00	24.00	24.00
Wastewater Laboratories	25.00	33.00	38.00	38.00	38.00	38.00	38.00
Industrial Waste Control	31.00	30.00	29.00	29.00	29.00	29.00	29.00
Combined Sewer Overflow	18.00	32.00	34.25	35.25	35.50	35.50	35.50
Grand Total	432.50	434.50	433.25	439.25	439.50	439.50	439.50

3. *Personnel Budget* – The table below presents the Wastewater Operations Group personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits and Contractual Transition Services. These values are based on the *Full Time Equivalents* in table 2.

## Personnel Budget

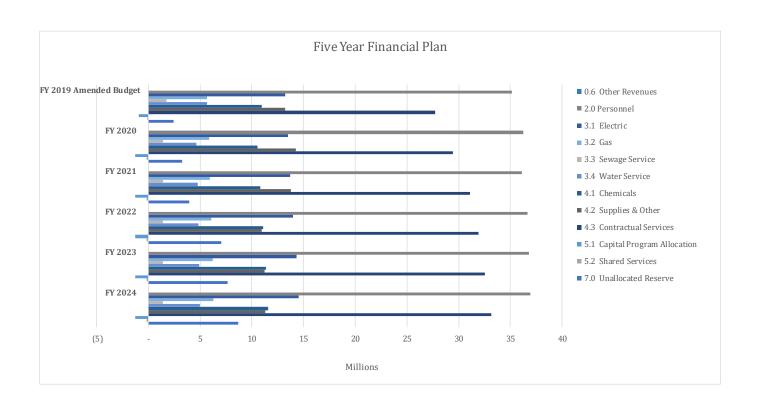
	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Amended	Amended	Department	Department	Department	Department	Department
Expense Category	Budget	Budget	Budget	Requested	Requested	Requested	Requested	Requested
Wastewater Administration	0	1700	1,688,300	1,530,800	1,536,900	1,543,100	1,549,200	1,555,300
Water Resource Recovery Facility	\$ 23,925,900	\$27,058,200	\$ 23,493,200	\$ 23,864,900	\$ 23,560,400	\$24,017,600	\$24,098,600	\$ 24,229,400
Wastewater Engineering	2,800,900	2,514,600	2,260,400	2,216,700	2,226,700	2,236,800	2,246,900	2,256,900
Industrial Waste Control	5,043,000	4,824,700	2,362,500	2,077,900	2,088,200	2,098,500	2,108,900	2,119,200
Wastewater Laboratories	-	11,000	2,672,000	3,349,600	3,365,000	3,380,500	3,395,900	3,411,400
Combined Sewer Overflow	2,007,500	2,891,800	2,668,600	3,179,300	3,318,800	3,361,400	3,373,500	3,385,500
Grand Total	\$ 33,777,300	\$37,302,000	\$ 35,145,000	\$ 36,219,200	\$ 36,096,000	\$36,637,900	\$36,773,000	\$ 36,957,700



### **Five Year Financial Plan**

# Five-Year Financial Plan by Expense Category

	FY 2019 Amended	FY 2020 Department	FY 2020 Dollar	FY 2020 Percent	FY 2021 Department	FY 2022 Department	FY 2023 Department	FY 2024 Department
Cost Category	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
2.1 Salaries & Wages	\$ 20,924,200	\$ 21,131,900	\$ 207,700	1.0%	\$ 21,718,900	\$ 22,221,700	\$ 22,221,700	\$ 22,221,700
2.2 Workforce Development	196,000	386,100	190,100	97.0%	386,100	386,100	386,100	386,100
2.3 Overtime	3,521,200	3,043,400	(477,800)	-13.6%	3,146,000	3,172,700	3,172,700	3,172,700
2.4 Employee Benefits	7,865,900	7,858,700	(7,200)	-0.1%	8,266,300	8,563,900	8,699,000	8,883,700
2.5 Transition Services	4,213,400	3,799,100	(414,300)	-9.8%	2,578,700	2,293,500	2,293,500	2,293,500
2.6 Personnel Transition Adjustment	(1,575,700)	-	1,575,700	-100.0%	-	-	-	-
3.1 Electric	13,246,600	13,491,400	244,800	1.8%	13,722,300	13,964,200	14,310,600	14,557,100
3.2 Gas	5,694,300	5,844,600	150,300	2.6%	5,950,400	6,071,900	6,196,000	6,323,000
3.3 Sewage Service	1,783,700	1,380,200	(403,500)	-22.6%	1,391,900	1,404,600	1,419,700	1,432,200
3.4 Water Service	5,652,400	4,666,700	(985,700)	-17.4%	4,750,400	4,837,700	4,927,300	5,016,100
4.1 Chemicals	10,946,800	10,523,900	(422,900)	-3.9%	10,808,600	11,072,700	11,387,600	11,611,700
4.2 Supplies & Other	13,248,800	14,288,600	1,039,800	7.8%	13,746,800	10,997,200	11,270,600	11,322,600
4.3 Contractual Services	27,755,500	29,472,900	1,717,400	6.2%	31,099,500	31,943,300	32,550,900	33,145,700
5.1 Capital Program Allocation	(921,500)	(1,239,400)	(317,900)	34.5%	(1,244,900)	(1,250,400)	(1,256,000)	(1,261,500)
5.2 Shared Services	(6,400)	(154,300)	(147,900)	2310.9%	(157,400)	(160,500)	(168,100)	(191,600)
7.0 Unallocated Reserve	2,440,500	3,264,900	824,400	33.8%	3,976,300	7,050,800	7,636,600	8,696,600
Grand Total	\$114,985,700	\$ 117,758,700	\$ 2,773,000	2.4%	\$120,139,900	\$ 122,569,400	\$ 125,048,200	\$127,609,600





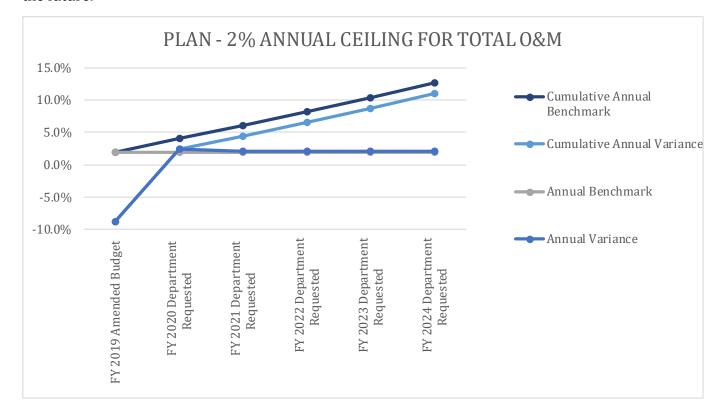
### Five-Year Financial Plan by Team

		FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	A	Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team	Ţ.	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
Wastewater Administration		1,688,300	2,511,100	822,800	48.7%	2,538,200	2,566,600	2,594,700	2,723,200
Water Resource Recovery Facility	\$	87,693,700	\$ 90,641,400	\$ 2,947,700	3.4%	\$ 92,640,200	\$ 93,845,100	\$ 94,844,100	\$ 96,613,800
Combined Sewer Overflow		13,912,000	12,371,300	(1,540,700)	-11.1%	12,612,200	10,656,800	11,333,100	11,196,700
Industrial Waste Control		2,917,300	2,559,100	(358,200)	-12.3%	2,595,700	2,598,400	2,544,700	2,516,500
Wastewater Engineering		2,572,700	2,262,000	(310,700)	-12.1%	1,965,300	2,004,300	2,227,700	1,965,800
Wastewater Laboratories		3,761,200	4,148,900	387,700	10.3%	3,812,000	3,847,400	3,867,300	3,897,000
Wastewater Operations Unallocated	l	2,440,500	3,264,900	824,400	33.8%	3,976,300	7,050,800	7,636,600	8,696,600
Grand Total	\$ 1	14,985,700	\$ 117,758,700	\$ 2,773,000	2.4%	\$ 120,139,900	\$ 122,569,400	\$ 125,048,200	\$ 127,609,600

## Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Wastewater Operating Group's financial plan reflects a Five Year Overall increase of 11.0% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".

This rate of growth is not unexpected as planning of programs mature and a focus is placed on cost controls. As Wastewater Operations continues to focus on reliability through a proactive maintenance program and innovation the result will be an effective utility set to be sustainable into the future.





# **Effective Utility Management Measures**

Open for 1.2019 revised draft

# **Capital Outlay**

Wastewater Operations Group capital outlay is funded by the Improvement & Extension (I&E) budget.

Capital Outlay by Asset Category

	2020 Department	2021 Department	2022 Department	2023 Department	2024 Department
Asset Categories	Requested	Requested	Requested	Requested	Requested
Building/Structure Improvement	\$ 1,007,500	\$ 1,007,500	<b>\$ 1,007,500</b>	\$ 1,007,500	\$1,007,500
Computers & IT	2,605,000	4,850,000	5,010,200		
Controls & Communication	85,000	105,000	5,900,000	452,000	4,500,000
Flow Measuring & Meters	720,000	725,000	500,000	120,000	120,000
Furniture & Fixtures	8,000				
Heavy Equipment		500,000			
Heavy Truck	385,000				410,000
Laboratory	133,000	25,000	84,100	167,700	34,000
Leasehold Improvements	800,000	450,000	950,000	450,000	250,000
Light Truck	495,000	270,000	380,000	250,000	160,000
Lighting	50,000	50,000	50,000	50,000	50,000
Machinery & Equipment		68,000			68,000
Passenger Vehicle	228,000	81,000	153,000	79,500	
Pipes, Gates & Valves	245,000	260,000	996,000	339,000	100,000
Process Equipment	790,000	264,000	399,000	511,200	288,000
Pumps & Motors	3,415,300	2,028,050	923,000	1,336,220	984,000
Tools, Shop & Warehouse	155,000	7,000	105,000		15,300
Utility Vehicle	50,000	25,000	8,000		
Grand Total	\$11,171,800	\$ 10,715,550	\$16,465,800	\$4,763,120	\$7,986,800

# Capital Outlay by Team

	2020	2021	2022	2023	2024
	Department	Department	Department	Department	Department
Team	Requested	Requested	Requested	Requested	Requested
Water Resource Recovery Facility	\$ 8,420,500	\$ 8,795,500	\$ 7,836,700	\$ 2,160,500	\$ 2,298,800
Wastewater Engineering	258,000	-	-	-	-
Industrial Waste Control	150,000	25,000	178,000	26,000	26,000
Wastewater Laboratories	135,000	-	34,100	141,700	8,000
Combined Sewer Overflow	2,208,300	1,895,050	8,417,000	2,434,920	5,654,000
<b>Grand Total</b>	\$ 11,171,800	\$ 10,715,550	\$ 16,465,800	\$ 4,763,120	\$ 7,986,800



# **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in alphabetical order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

		FY 2018	FY 2018	FY 2019 Board					
		Amended	Activity thru	Adopted	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	,T	Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requested
892001 - Chief Operating Officer Wastewater	\$	1,700	\$ 400	\$ 1,688,300	\$ 2,511,100	\$ 2,538,200	\$ 2,566,600	\$ 2,594,700	\$ 2,723,200
2.1 Salaries & Wages		1,400	400	1,234,100	1,108,500	1,108,500	1,108,500	1,108,500	1,108,500
2.3 Overtime		-	-	6,400	6,600	6,600	6,600	6,600	6,600
2.4 Employee Benefits		300	-	344,800	312,700	318,800	325,000	331,100	337,200
2.5 Transition Services		-	-	103,000	103,000	103,000	103,000	103,000	103,000
4.2 Supplies & Other		-	-	-	58,600	60,000	61,200	62,500	63,700
Memberships, Licenses & Subscriptions		-	-	-	3,000	3,100	3,200	3,300	3,400
Mileage and Parking		-	-	-	5,000	5,100	5,200	5,300	5,400
Miscellaneous Expense		-	-	-	3,000	3,100	3,100	3,200	3,200
Office Supplies		-	-	-	9,000	9,200	9,400	9,500	9,700
Repairs & Maintenance-Equipment		-	-	-	3,300	3,400	3,500	3,600	3,700
Training and Internal Meetings		-	-	-	8,800	9,000	9,200	9,400	9,600
Travel		-	-	-	26,500	27,100	27,600	28,200	28,700
4.3 Contractual Services		-	-	-	1,020,000	1,040,000	1,061,400	1,082,500	1,204,100
5.1 Capital Program Allocation		-	-	-	(98,300)	(98,700)	(99,100)	(99,500)	(99,900
892201 - Wastewater Director	\$	2,611,400	\$ 2,384,200	\$ 4,359,500	\$ 5,242,300	\$ 5,422,600	\$ 5,039,900	\$ 4,887,000	\$ 4,719,500
2.1 Salaries & Wages		1,048,000	994,100	1,783,300	2,017,400	2,052,000	2,207,200	2,207,200	2,207,200
2.3 Overtime		96,900	96,100	262,900	433,300	449,900	457,600	457,600	457,600
2.4 Employee Benefits		400,800	389,800	651,600	762,400	799,300	863,400	879,700	895,900
2.5 Transition Services		-	-	1,725,600	1,417,200	1,048,600	842,600	842,600	842,600
2.6 Personnel Transition Adjustment		-	-	(688,700)	-	-	-	-	-
4.2 Supplies & Other		286,300	183,000	116,100	372,000	632,000	219,500	207,500	18,000
Capital Outlay less than \$5,000		25,000	21,700	55,000	210,000	200,000	200,000	200,000	10,000
Memberships, Licenses & Subscriptions		5,500	2,200	4,500	-	-	-	-	-
Mileage and Parking		3,000	2,100	5,000	-	-	-	-	-
Office Supplies		8,000	7,500	8,000	-	-	-	-	-
Repairs & Maintenance-Equipment		37,000	34,400	3,300	137,000	407,000	7,000	7,500	8,000
Training and Internal Meetings		165,700	107,300	8,800	25,000	25,000	12,500	-	-
Travel		27,100	9,900	26,500	-	-	-	-	-
Tuition Refund		15,000	(2,100)	5,000	-	-	-	-	-
4.3 Contractual Services		990,000	977,700	750,000	240,000	440,800	449,600	292,400	298,200
5.1 Capital Program Allocation		(210,600)	(256,500)	(241,300)	-		-	-	-



	<b>P</b> V	EV 2012	FY 2019					
	FY 2018	FY 2018	Board	EV 2020	FW 2024	EV 2022	FV 2022	EV 2024
Cast Cautax & Description	Amended Budget	Activity thru	Adopted	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description 892211 - Wastewater Engineering	Budget \$ 3,014,300	06.30.2018 \$ 2,537,900	Budget \$ 2,572,700	\$ 2,262,000	\$ 1,965,300	\$ 2,004,300	Requested \$ 2,227,700	\$ 1,965,8
2.1 Salaries & Wages	1,706,800	1,704,800	1,636,000	1,569,100	1,569,100	1,569,100	1,569,100	1,569,1
2.3 Overtime	145,100	139,300	90,100	134,200	134,200	134,200	134,200	134,2
2.4 Employee Benefits	662,700	576,100	534,300	513,400	523,400	533,500	543,600	553,6
2.5 Transition Services	-	, <u>-</u>	-		· -	-	-	,
4.2 Supplies & Other	100,900	59,800	233,500	251,200	60,900	94,800	63,100	46,2
Capital Outlay less than \$5,000	9,000	9,000	100,000	187,700	-	-	-	
Capital Outlay over \$5k(O&M-Capitalized)	\$ -	\$ -	\$ 81,000	\$ -	\$ -	\$ -	\$ -	\$
Inspection and Permit Fees	500	-	-	-	-	-	-	
Memberships, Licenses & Subscriptions	10,700	10,400	6,300	5,100	6,500	5,400	6,700	
Mileage and Parking	10,500	8,800	10,000	10,200	10,400	10,600	10,800	
Office Supplies	27,000	17,000	16,500	21,800	17,200	17,500	17,900	18,0
Operating Supplies	20,500	5,200	5,800	10,200	10,400	11,600	10,800	10,9
Repairs & Maintenance-Equipment	5,000	-	2,000	100	100	100	100	1
Training and Internal Meetings	5,000	1,900	100	3,100	3,100	3,100	3,100	3,0
Travel	11,700	6,700	11,800	9,000	9,200	42,500	9,700	10,2
Tuition Refund	1,000	800	- CZE 000	4,000	4,000	4,000	4,000	4,0
4.3 Contractual Services 5.1 Capital Program Allocation	995,000 (596,200)	749,600 (691,700)	675,000 (596,200)	900,000 (1,105,900)	788,500 (1,110,800)	788,500 (1,115,800)	1,038,500 (1,120,800)	788,5 (1,125,8
92221 - Wastewater Operations	\$ 63,965,000		\$ 28,161,300		\$ 30,742,300	\$ 31,676,700	\$ 32,239,200	\$ 32,807,8
2.1 Salaries & Wages	12,462,100	11,708,400	677,400	753,500	888,000	955,200	955,200	955,2
2.2 Workforce Development	201,600	201,600	-	755,500	-	-	-	333,2
2.3 Overtime	2,277,000	2,046,900	81,200	147,700	174,000	187,200	187,200	187,2
2.4 Employee Benefits	5,505,800	5,421,200	226,600	263,200	315,500	345,600	352,100	358,6
2.5 Transition Services	4,989,200	4,961,500	297,000	302,900	-		-	330,1
2.6 Personnel Transition Adjustment	(11,200)		(24,300)			-	_	
3.1 Electric	11,025,100	11,025,100	11,097,100	11,319,000	11,545,400	11,776,300	12,011,800	12,252,0
3.2 Gas	3,308,600	3,299,000	3,360,400	3,499,900	3,604,900	3,713,000	3,824,400	3,939,1
3.3 Sewage Service	541,900	541,700	620,000	587,200	598,900	610,900	623,100	635,6
3.4 Water Service	3,964,900	3,965,200	5,004,700	4,123,800	4,206,300	4,290,400	4,376,200	4,463,7
4.1 Chemicals	48,300	38,300	1,200	2,000	2,000	2,000	2,000	2,0
4.2 Supplies & Other	5,560,400	4,714,100	3,260,000	4,294,400	4,291,500	4,365,100	4,445,700	4,522,1
Capital Outlay less than \$5,000	49,000	46,200	53,000	-	3,000	-	3,000	
Capital Outlay over \$5k(O&M-Capitalized)	\$ 286,800	\$ 15,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$
Inspection and Permit Fees	332,100	238,000	256,000	250,200	255,200	260,300	265,500	270,8
Memberships, Licenses & Subscriptions	-	200	-	-	-	-	-	
Mileage and Parking	3,000	100	3,000	-	-	-	-	
Office Supplies	46,000	45,300	45,000	51,000	52,000	53,100	54,100	55,2
Operating Supplies	278,000	276,700	265,000	181,000	184,600	188,300	192,100	195,9
Penalties	200,000	31,200	200,000	200,000	200,000	200,000	200,000	200,0
Repairs & Maintenance-Equipment	346,500	269,100	290,000	296,000	301,900	308,000	314,100	320,4
Repairs & Maintenance-Facilities	3,938,600	3,735,900	1,880,000	3,009,000	3,022,800	3,077,900	3,134,000	3,191,2
Repairs & Maintenance-Software	-			40,000			-	
Training and Internal Meetings	11,000	2,000	156,500	155,500	158,600	161,800	165,000	168,3
Travel	1,000	800	1,500	1,500	1,500	1,500	1,500	1,5
Tuition Refund	3,000	2,500	8,000	8,000	8,000	8,000	8,000	8,0
Uniforms, Laundry, Cleaning	65,400	50,500	102,000	102,200	103,900	106,200	108,400	110,8
4.3 Contractual Services	14,175,300	8,305,100	3,644,000	3,858,300	5,115,800	5,431,000	5,461,500	5,492,3
5.1 Capital Program Allocation	(84,000)				¢ 4 507 300	¢ 4 93F 100	÷ 4924 F00	ć F300 1
92222 - Wastewater Process Control 2.1 Salaries & Wages	\$ 1,684,900 15,000	\$ 1,081,200 14,800		\$ 4,944,700 1,310,400	\$ 4,507,200 1,399,600	\$ 4,835,100 1,660,200	\$ 4,824,500 1,660,200	\$ 5,388,2 1,660,2
2.1 Salaries & Wages 2.2 Workforce Development	15,000	14,800	1,597,500 32,500	39,900	39,900	39,900	39,900	1,660,2 39,9
2.3 Overtime	-	-	145,200	136,900	148,100	148,100	148,100	148,1
2.4 Employee Benefits	-	-	543,300	446,500	499,700	567,700	578,400	588,3
2.5 Transition Services	-	-	3-3,300	267,300	79,200	307,730	3,0,-30	300,
4.1 Chemicals	44,400	44,200	34,000	45,000	45,900	46,800	47,700	48,7
4.2 Supplies & Other	390,200	204,600	274,300	855,000	434,200	494,000	453,100	598,8
Capital Outlay less than \$5,000	15,300	15,300	157,800	429,600	4,700	60,400	14,200	151,
Capital Outlay over \$5k(O&M-Capitalized)	\$ -		\$ -	\$ -				\$
Operating Supplies	7,000	2,600	1,000	7,100	7,100	7,100	7,100	7,3
Repairs & Maintenance-Equipment	80,700	22,600	33,000	133,300	134,600	136,000	138,400	140,8
Repairs & Maintenance-Hardware	204,800	85,300	52,500	255,000	257,600	260,100	262,700	268,0
Repairs & Maintenance-Software	62,400	8,000	,	10,000	10,200	10,400	10,700	11,0
Training and Internal Meetings	20,000	15,000	30,000	20,000	20,000	20,000	20,000	20,0
Tuition Refund		,-30				,	,-30	_5,0
4.3 Contractual Services	1,311,200	893,900	1,900,000	1,904,100	1,922,200	1,941,200	1,961,200	2,369,6
5.2 Shared Services	(75,900)			(60,400)		(62,800)		(65,4



	FY 2018	FY:	2018		Y 2019 oard										
	Amended	Activit	y thru	Ad	opted	FY	2020	FY 2	2021	F	Y 2022		FY 2023	-	FY 2024
Cost Center & Description	Budget	06.30					ested	Reque			quested		quested		quested
892223 - Wastewater Primary Process	\$ 2,845,400	\$ 2,6	615,700	\$	6,594,800		7,463,600		480,000	Ş	7,437,300	Ş	7,522,600		7,613,700
2.1 Salaries & Wages 2.2 Workforce Development	13,000		12,700		2,008,300 32,500		2,087,300 39,900	2,	154,500 39,900		2,154,500 39,900		2,154,500 39,900		2,154,500 39,900
2.3 Overtime	-		-		412,800		469,600		469,600		469,600		469,600		469,600
2.4 Employee Benefits	_		_		830,400		866,900		903,400		920,800		936,000		955,600
2.5 Transition Services	_		_		698,100		453,900		299,100		299,100		299,100		299,100
2.6 Personnel Transition Adjustment	_		-		(280,300)		-		-		-		-		-
4.1 Chemicals	1,365,400	1,3	358,400		1,550,000		2,086,000	2,:	128,000		2,171,000		2,214,000		2,258,000
4.2 Supplies & Other	1,332,000	1,1	118,000		1,218,000		1,304,000	1,:	326,600		1,220,500		1,244,600		1,269,100
Capital Outlay less than \$5,000	13,000		12,800		-		-		-		-		-		-
Capital Outlay over \$5k(O&M-Capitalized)	\$ 60,000	\$	54,900	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Operating Supplies	34,000		33,700		40,000		40,000		40,800		41,600		42,400		43,300
Repairs & Maintenance-Equipment	1,225,000		016,600		1,178,000		1,264,000		285,800		1,178,900		1,202,200		1,225,800
4.3 Contractual Services	135,000		126,600		125,000		156,000		158,900		161,900		164,900		167,900
892224 - Wastewater Secondary Process	\$ 6,219,600	\$ 6,1	198,500	\$	11,567,100		1,099,900		107,000	<b>Ş</b> 1	11,155,800	Ş	11,264,800		1,573,200
2.1 Salaries & Wages	35,000		34,500		2,372,400		2,215,400		215,400		2,215,400		2,215,400		2,215,400
2.2 Workforce Development 2.3 Overtime	-		-		32,500 446,900		111,400 427,900		111,400 427,700		111,400 427,500		111,400 427,500		111,400 427,500
2.4 Employee Benefits	_				903,500		859,200		895,600		915,200		908,100		947,300
2.5 Transition Services			_		416,200		147,600		147,600		147,600		147,600		147,600
2.6 Personnel Transition Adjustment	_		_		(174,300)		147,000		-		147,000		147,000		
4.1 Chemicals	4,584,600	4.5	583,400		6,189,900		5,753,200	5.5	925,000		6,057,000		6,234,200		6,378,200
4.2 Supplies & Other	1,045,000		026,100		780,000		956,000		099,100		992,500		1,011,500		1,132,600
Capital Outlay less than \$5,000	15,000	,	10,700		-		-		-		-		-		-
Capital Outlay over \$5k(O&M-Capitalized)	\$ 50,000	\$	40,300	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Operating Supplies	50,000		49,600		50,000		55,000		56,100		57,200		58,400		59,500
Repairs & Maintenance-Equipment	925,000	9	924,200		730,000		901,000	1,0	043,000		935,300		953,100		1,073,100
Training and Internal Meetings	5,000		1,300		-		-		-		-		-		-
Tuition Refund	-		-		-		-		-		-		-		-
4.3 Contractual Services	555,000		554,500		600,000		629,200		285,200		289,200		209,100		213,200
892225 - Wastewater Dewatering Process	\$ 2,248,300	\$ 1,9	990,000	\$	6,095,900		5,636,700		851,200	\$	5,971,700	Ş	6,026,800		6,106,400
2.1 Salaries & Wages 2.2 Workforce Development	12,500		12,400		2,265,500 33,400		2,139,400 39,900	2,.	206,600		2,206,600		2,206,600 39,900		2,206,600 39,900
2.3 Overtime	_				486,900		370,500	,	39,900 381,900		39,900 381,900		381,900		381,900
2.4 Employee Benefits					927,800		869,400		909,700		927,200		944,700		962,200
2.5 Transition Services			_		57,600		151,500		151,500		151,500		151,500		151,500
2.6 Personnel Transition Adjustment	_		_		(47,900)		-		-		-		-		-
4.1 Chemicals	719,600	-	705,500		1,000,000		679,000		746,900		821,600		830,400		863,000
4.2 Supplies & Other	1,336,200		182,400		1,265,600		1,280,000		305,600		1,331,700		1,358,300		1,385,500
Capital Outlay less than \$5,000	21,500		21,300		-		-				-		-		-
Capital Outlay over \$5k(O&M-Capitalized)	\$ 50,000	\$	28,500	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Capital Outlay over \$5k(O&M-NonCapitlzd)	\$ -	\$	(17,900)	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Operating Supplies	186,000	:	185,900		165,600		180,000		183,600		187,300		191,000		194,800
Repairs & Maintenance-Equipment	1,078,700	9	964,600		1,100,000		1,100,000		122,000		1,144,400		1,167,300		1,190,700
4.3 Contractual Services	180,000		89,700		107,000		107,000		109,100		111,300		113,500		115,800
892226 - Wastewater Incineration Process	\$ 2,108,100	\$ 1,8	812,100	\$	5,675,400		5,274,000			\$	5,157,700	\$			5,233,800
2.1 Salaries & Wages	12,500		12,500		2,306,400		2,155,200		194,100		2,194,100		2,194,100		2,194,100
2.2 Workforce Development	-		-		65,100 461,800		155,000		155,000		155,000		155,000		155,000
2.3 Overtime	-		-		461,800 963 300		218,100		221,900		221,900		221,900		221,900
2.4 Employee Benefits 2.5 Transition Services	-		-		963,300 273,300		103,000		924,500		942,300		960,100		977,900
2.6 Personnel Transition Adjustment	-		-		(116,200)		103,000		-		-		-		-
4.1 Chemicals	218,000		198,200		974,200		618,000		618,000		630,400		630,400		630,400
4.2 Supplies & Other	1,776,500		568,000		692,500		984,100		926,000		862,000		858,200		900,400
Capital Outlay less than \$5,000	58,000	-,-	57,300				5,100	·	9,700		4,000		4,500		4,500
Capital Outlay over \$5k(O&M-Capitalized)	\$ 45,000	\$	33,300	\$	_	\$		\$		\$		\$		\$	-
Operating Supplies	23,500		23,500		25,000		25,000		25,500		26,000		26,500		27,100
Repairs & Maintenance-Equipment	1,650,000	1,4	453,900		667,500		954,000	:	890,800		832,000		827,200		868,800
4.3 Contractual Services	101,100		33,400		55,000		150,000		151,000		152,000		153,100		154,100



	FY 2018	FY 2018	FY 2019 Board					
	Amended	Activity thru	Adopted	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Budget	Requested	Requested	Requested	Requested	Requested
892227 - BDF, COF & Hauling	\$ 18,796,500	\$ 18,782,100	\$ 20,655,700	\$ 21,766,000	\$ 22,277,100	\$ 22,508,200	\$ 22,843,400	\$ 23,108,200
2.1 Salaries & Wages	-	-	449,600	451,000	528,800	528,800	528,800	528,800
2.3 Overtime	-	-	101,900	62,700	73,500	73,500	73,500	73,500
2.4 Employee Benefits 2.5 Transition Services	-	-	184,000 102,600	177,900 103,000	215,000	219,200	223,300	227,400
	-	-	•	103,000	-	-	-	-
2.6 Personnel Transition Adjustment 3.1 Electric	1,096,400	1,095,600	(32,000) 1,099,000	1,100,000	1,100,000	1,100,000	1,200,000	1,200,000
3.2 Gas	2,146,600		2,157,400	2,160,000	2,160,000	2,170,000	2,180,000	2,190,000
3.3 Sewage Service	2,140,600	221,100	66,400	250,000	250,000	250,000	250,000	250,000
3.4 Water Service	134,400		125,300	136,400	137,500	138,600	139,700	140,900
4.2 Supplies & Other	154,400	155,200	123,300	130,400	137,300	130,000	133,700	1-10,500
Repairs & Maintenance-Equipment	_	_	_	_	_	_	_	_
4.3 Contractual Services	15,197,600	15,185,300	16,401,500	17,325,000	17,812,300	18,028,100	18,248,100	18,497,600
892231 - Industrial Waste Control	\$ 5,429,100		\$ 2,792,300	\$ 2,407,100	\$ 2,443,700	\$ 2,446,400	\$ 2,388,700	\$ 2,360,500
2.1 Salaries & Wages	3,209,300	3,134,200	1,508,400	1,538,400	1,538,400	1,538,400	1,538,400	1,538,400
2.3 Overtime	412,500	370,000	282,800	12,300	12,300	12,300	12,300	12,300
2.4 Employee Benefits	1,202,900		571,300	527,200	537,500	547,800	558,200	568,500
3.1 Electric	93,700		57,600	-	-			-
3.2 Gas	53,400	44,000	17,600	_	_	_	_	_
3.3 Sewage Service	20,100		17,200	_	_	-	_	_
3.4 Water Service	5,700	•	4,100	_	_	_	_	_
4.1 Chemicals	-	-	-	_	_	_	_	_
4.2 Supplies & Other	217,500	115,100	248,300	156,300	176,400	168,400	175,100	136,100
Advertising	32,500	32,300	35,000	35,000	40,000	40,000	40,000	42,000
Capital Outlay less than \$5,000	86,000		31,100	4,800	17,200	4,200	17,200	5,200
Capital Outlay over \$5k(O&M-Capitalized)		\$ -	\$ 50,000				\$ -	\$ -
Inspection and Permit Fees	5,000	600	5,000	600	100	100	100	100
Memberships, Licenses & Subscriptions	8,000	300	10,500	12,500	12,600	12,600	12,600	2,000
Mileage and Parking	400	-	1,600	1,600	800	800	800	800
Office Supplies	20,000	17,700	17,500	18,500	17,500	17,500	19,500	20,000
Operating Supplies	22,000	19,600	20,000	25,000	30,000	35,000	35,000	40,000
Operating Supplies-Janitorial	5,000	1,800	5,000	5,000	5,000	5,000	5,000	5,000
Postage	-	-	20,000	20,000	22,500	22,500	22,700	-
Printing	-	-	15,000	5,000	5,000	5,000	-	-
Repairs & Maintenance-Equipment	7,500	400	15,300	9,000	10,000	10,000	10,000	10,000
Repairs & Maintenance-Facilities	10,000	9,600	-	-	-	-	-	-
Training and Internal Meetings	17,500	1,100	17,500	14,500	10,500	10,500	7,000	7,000
Travel	-	-	1,200	1,200	1,200	1,200	1,200	-
Tuition Refund	-	100	-	-	-	-	-	-
Uniforms, Laundry, Cleaning	3,600	2,800	3,600	3,600	4,000	4,000	4,000	4,000
4.3 Contractual Services	214,000	181,200	85,000	172,900	179,100	179,500	104,700	105,200
892235 - Wastewater Laboratories	\$ 927,700		\$ 3,761,200	\$ 4,148,900		\$ 3,847,400		\$ 3,897,000
2.1 Salaries & Wages	11,000	10,800	1,900,100	2,287,900	2,287,900	2,287,900	2,287,900	2,287,900
2.3 Overtime	-	-	124,300	273,700	273,700	273,700	273,700	273,700
2.4 Employee Benefits	-	-	647,600	788,000	803,400	818,900	834,300	849,800
4.1 Chemicals	74,000		77,000	109,300	111,400	112,500	116,300	118,800
4.2 Supplies & Other	548,400		717,200	380,600	84,900	97,000	88,400	95,400
Capital Outlay less than \$5,000	3,500		3,300	2,000	· -	6,000	1,500	7,000
Capital Outlay over \$5k(O&M-Capitalized)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Memberships, Licenses & Subscriptions	7,000	4,000	7,000	-	-	5,000	-	-
Office Supplies	-	-	-	-	-	-	-	-
Operating Supplies	48,000	47,800	54,000	59,200	59,800	60,700	61,400	62,700
Rentals-Buildings	448,900	445,000	448,900	224,400	-	-	-	-
Repairs & Maintenance-Equipment	20,000	6,700	20,000	27,500	17,600	17,800	18,000	18,200
Repairs & Maintenance-Facilities	15,000	14,300	170,000	60,000	·	-	-	-
Training and Internal Meetings	-	-	8,000	4,000	4,000	4,000	4,000	4,000
Uniforms, Laundry, Cleaning	6,000		6,000	3,500	3,500	3,500	3,500	3,500
4.3 Contractual Services	294,300	281,100	295,000	309,400	250,700	257,400	266,700	271,400



		FY 2018 Amended	FY 2018 Activity thru	FY 2019 Board Adopted		FY 2020	FY 2021		FY 2022	FY 2023	FY 2024
Cost Center & Description	Ţ	Budget	06.30.2018	Budget		quested	Requested	R	equested	Requested	Requested
892270 - Combined Sewer Overflow	¥-1	\$ 3,017,400			\$	5,846,900	\$ 6,130,800		6,419,400	\$ 6,793,500	\$ 6,818,200
2.1 Salaries & Wages		1,225,700	664,000	1,185,200	· ·	1,498,400	1,576,000		1,595,800	1,595,800	1,595,800
2.3 Overtime		448,900	374,000	618,000		349.900	372,600		378,600	378,600	378,600
2.4 Employee Benefits		328,100	309,400	537,400		581,300	620,500		637,300	649,400	661,400
2.5 Transition Services		889,100	963,100	540,000		749,700	749,700		749,700	749,700	749,700
2.6 Personnel Transition Adjustment		-	-	(212,000)	)	-			-	-	-
4.2 Supplies & Other		15,600	13,300	11,700		20,800	20,900		21,100	21,200	21,300
Inspection and Permit Fees		1,000	1,000	-			· .		-	-	· -
Mileage and Parking		2,100	2,000	-		2,400	2,400		2,400	2,400	2,400
Operating Supplies		5,800	5,500	5,000		1,500	1,500		1,500	1,500	1,500
Training and Internal Meetings		-	-	-		3,000	3,000		3,000	3,000	3,000
Travel		-	300	-		5,500	5,500		5,500	5,500	5,500
Tuition Refund		-	100	-		1,500	1,500		1,500	1,500	1,500
Uniforms, Laundry, Cleaning		6,700	4,400	6,700		6,900	7,000		7,200	7,300	7,400
4.3 Contractual Services		110,000	72,900	3,118,000		2,701,000	2,845,900		3,092,200	3,454,700	3,467,800
5.1 Capital Program Allocation		-	-	-		(35,200)	(35,400	)	(35,500)	(35,700)	(35,800)
5.2 Shared Services		-	-	-		(19,000)	(19,400	)	(19,800)	(20,200)	(20,600)
892271 - Puritan Fenkell Combined Sewer Overflow		\$ 317,700	\$ 242,900	\$ 227,100	\$	293,000	\$ 287,400	\$	294,600	\$ 302,200	\$ 309,500
3.1 Electric		46,100	47,800	43,100		50,000	50,000		50,000	50,000	50,000
3.2 Gas		5,200	200	25,900		5,500	5,500		5,500	5,500	5,500
3.3 Sewage Service		12,300	9,900	4,700		11,000	11,000		11,300	11,800	11,800
3.4 Water Service		7,400	8,800	6,900		9,000	9,100		9,300	9,400	9,500
4.1 Chemicals		12,000	11,000	11,000		11,000	11,000		11,000	11,000	11,000
4.2 Supplies & Other		204,700	160,500	135,500		206,500	200,800		207,500	214,500	221,700
Capital Outlay less than \$5,000		20,000	16,400	-		-			-	-	-
Capital Outlay over \$5k(O&M-Capitalized)		\$ 44,200	\$ 7,400	\$ -	\$	-	\$ -	\$	-	\$ -	\$ -
Office Supplies		1,000	200	500		200	200		200	200	200
Operating Supplies		6,500	4,700	5,000		30,500	31,000		31,600	32,200	32,800
Repairs & Maintenance-Equipment		105,000	104,500	100,000		85,800	75,100		76,500	77,900	79,300
Repairs & Maintenance-Facilities		28,000	27,300	30,000		90,000	94,500		99,200	104,200	109,400
4.3 Contractual Services		30,000	4,700	-		-			-	-	-
892272 - 7 Mile Combined Sewer Overflow		\$ 230,400	\$ 154,000	\$ 176,000	\$	130,300	\$ 131,600	\$	133,600	\$ 136,500	\$ 138,100
3.1 Electric		22,800	25,200	16,900		21,000	21,000		21,500	22,000	22,000
3.2 Gas		17,100	13,900	6,500		15,500	15,500		15,800	16,200	16,200
3.3 Sewage Service		5,600	5,300	11,000		7,500	7,500		7,500	7,500	7,500
3.4 Water Service		28,600	32,500	18,600		35,000	35,000		35,000	35,500	35,500
4.1 Chemicals		6,900	4,400	5,000		5,400	5,400		5,400	5,600	5,600
4.2 Supplies & Other		129,400	69,300	118,000		45,900	47,200		48,400	49,700	51,300
Capital Outlay over \$5k(O&M-Capitalized)		\$ 10,600	\$ -	\$ -	\$	-	\$ -	\$	-	\$ -	\$ -
Office Supplies		1,000	200	-		-	-		-	-	-
Operating Supplies		11,000	8,900	9,000		10,500	11,100		11,600	12,200	12,800
Repairs & Maintenance-Equipment		79,800	38,400	70,000		16,200	16,700		17,200	17,800	18,300
Repairs & Maintenance-Facilities		27,000	21,800	39,000		19,200	19,400		19,600	19,700	20,200
4.3 Contractual Services		20,000	3,400	-		-	-		-	-	-
892273 - Hubble Southfield CSO		\$ 637,800		\$ 464,800	\$	472,400	\$ 475,200		479,300		\$ 490,300
3.1 Electric		62,300	62,900	57,200		62,300	62,300		62,700	63,000	63,000
3.2 Gas		25,400	22,400	14,400		25,400	25,400		25,900	26,300	26,300
3.3 Sewage Service		2,400	1,500	1,800		1,900	1,900		1,900	2,000	2,000
3.4 Water Service		104,100	104,000	78,000		105,000	105,000		105,500	106,000	106,000
4.1 Chemicals		123,400	129,100	125,000		152,000	152,000		152,000	156,000	156,000
4.2 Supplies & Other		275,200	227,100	188,400		125,800	128,600		131,300	134,200	137,000
Capital Outlay less than \$5,000		18,500	18,500	-		-	-		-	-	-
Capital Outlay over \$5k(O&M-Capitalized)		\$ 31,900	\$ -	\$ -	\$	-	\$ -	\$	-	\$ -	\$ -
Office Supplies		3,000	-	-		-	-		-	-	-
Operating Supplies		8,600	8,500	7,500		10,500	11,100		11,600	12,200	12,800
Repairs & Maintenance-Equipment		156,300	143,300	125,000		99,100	101,100		103,000	105,100	107,100
Repairs & Maintenance-Facilities		56,900	56,800	55,900		16,200	16,400		16,700	16,900	17,100
4.3 Contractual Services		45,000	25,800								



		FY 2018		FV 2040	_	v 2040 D										
		Amended	Δα	FY 2018 tivity thru		Y 2019 Board Adopted		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
Cost Center & Description	Ţ.	Budget		6.30.2018		Budget	R	equested	R	equested	R	equested	R	equested	Re	equested
892274 - Leib Combined Sewer Overflow	\$	400,100	\$	230,400	\$	258,700	\$	145,800	\$	148,300	\$	151,600	\$	154,700	\$	158,300
3.1 Electric		24,200		23,500		28,000		28,800		29,700		30,600		31,500		33,100
3.2 Gas		17,000		14,200		8,900		18,000		18,000		18,500		18,800		19,000
3.3 Sewage Service		2,000		1,300		15,400		2,500		2,500		2,500		2,500		2,500
3.4 Water Service		-		-		24,200		5,000		5,000		5,000		5,000		5,000
4.1 Chemicals		21,300		23,300		24,000		25,000		25,000		25,000		25,000		25,000
4.2 Supplies & Other		315,600		149,200		158,200		66,500		68,100		70,000		71,900		73,700
Capital Outlay over \$5k(O&M-Capitalized)	Ş	-,	\$	8,400	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Office Supplies		2,000		1,900		2,000		-		-		-		-		-
Operating Supplies		7,000		5,300		5,200		5,000		5,200		5,500		5,800		6,100
Repairs & Maintenance-Equipment		275,500		125,300		103,000		53,300		54,600		56,000		57,400		58,800
Repairs & Maintenance-Facilities		6,000		8,300		48,000		8,200		8,300		8,500		8,700		8,800
4.3 Contractual Services		20,000	_	18,900				-		-		-	_	-		-
892275 - St Aubin Combined Sewer Overflow	Ş	,	\$	232,200	\$	294,700	\$	165,900	\$	148,400	\$	151,100	\$	156,800	\$	152,400
3.1 Electric		33,200		33,100		28,700		29,300		29,900		30,500		31,100		32,600
3.2 Gas 3.3 Sewage Service		7,300 2,000		5,600 1,200		4,400 15,800		6,000 2,500		6,000 2,500		6,500 2,500		6,800 2,500		6,800 2,500
3.4 Water Service		2,500		2,300		24,800		2,500		2,500		2,500		2,500		2,500
4.1 Chemicals		31,700		28,500		32,000		32,000		32,000		32,000		35,000		35,000
4.2 Supplies & Other		239,500		161,500		189,000		93,600		75,500		77,100		78,900		73,000
Capital Outlay less than \$5,000		233,300		101,300		105,000				73,300		77,100		70,500		73,000
Capital Outlay over \$5k(O&M-Capitalized)	5	10,600	\$	11,000	\$	_	\$	_	\$	_	Ś	_	Ś	_	\$	_
Office Supplies	7	1,000	Ţ	200	Ţ	500	Y	_	7	_	Y	_	7	_	Ţ	_
Operating Supplies		9,000		7,800		8,000		10,500		11,200		11,600		12,200		12,800
Repairs & Maintenance-Equipment		158,900		124,500		120,500		53,000		54,100		55,200		56,300		49,700
Repairs & Maintenance-Facilities		60,000		18,000		60,000		30,100		10,200		10,300		10,400		10,500
4.3 Contractual Services		-		-		-		-		-		-		-		_
892276 - Connor Creek Combined Sewer Overflow	Ş	1,529,600	\$	1,483,700	\$	1,540,200	\$	1,250,100	\$	1,255,000	\$	1,261,600	\$	1,294,100	\$	1,299,600
3.1 Electric		254,100		254,100		166,300		255,000		255,000		255,500		256,000		256,000
3.2 Gas		59,500		56,400		50,200		57,200		57,200		57,800		58,000		58,000
3.3 Sewage Service		100,100		103,100		452,000		125,000		125,000		125,000		126,000		126,000
3.4 Water Service		55,600		44,100		135,200		55,000		55,000		55,400		56,000		56,000
4.1 Chemicals		476,000		476,000		460,000		535,000		535,000		535,000		560,000		560,000
4.2 Supplies & Other		404,300		372,200		276,500		222,900		227,800		232,900		238,100		243,600
Capital Outlay less than \$5,000		6,000		5,200		-		-	١.	-		-		-		-
Capital Outlay over \$5k(O&M-Capitalized)	Ş	10,600	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Memberships, Licenses & Subscriptions				100												
Office Supplies		6,000		5,400		5,500		5,100		5,200		5,300		5,400		5,500
Operating Supplies		22,200		22,900		23,000		15,000		15,700		16,500		17,400		18,300
Repairs & Maintenance-Equipment		231,500 128,000		214,100		190,000 58,000		167,500 35,300		171,300 35,600		175,200 35,900		179,100 36,200		183,200 36,600
Repairs & Maintenance-Facilities		,		124,500		58,000		35,300		35,600		35,900		36,200		36,600
4.3 Contractual Services 892277 - Baby Creek Combined Sewer Overflow		180,000 1,920,900	ć	177,800 1,067,400	Ś	3,482,100	ć	2,974,900	Ś	2,905,900	Ś	677,000	Ś	708,200	Ś	728,100
3.1 Electric	7	110,800	Ţ	110,700	Ţ	148,000	7	151,000	Ģ	154,000	Ţ	157,100	Ą	160,200	ب	163,400
3.2 Gas		40,800		38,600		38,100		38,800		39,600		40,400		41,200		43,300
3.3 Sewage Service						55,900		7,000		7,000		7,000		7,000		7,000
3.4 Water Service		-		_		87,600		5,000		5,000		5,000		5,000		5,000
4.1 Chemicals		300,700		286,900		343,500		350,000		350,000		350,000		390,000		390,000
4.2 Supplies & Other		425,200		287,300		2,809,000		2,423,100		2,350,300		117,500		104,800		119,400
Capital Outlay over \$5k(O&M-Capitalized)	ç	10,600	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	
Office Supplies		4,000	•	200		500		-	Ė	-		-	•	-		
Operating Supplies		27,000		22,500		22,500		10,500		11,000		11,600		12,200		12,800
Repairs & Maintenance-Equipment		158,400		157,900		271,000		67,300		68,700		85,000		71,400		85,000
Repairs & Maintenance-Facilities		225,200		106,700		2,515,000		2,345,300		2,270,600		20,900		21,200		21,600
4.3 Contractual Services		1,043,400		343,900		_		-		_		-		-		-



		FY 2018 Amended		FY 2018 tivity thru	F	Y 2019 Board Adopted		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
Cost Center & Description		Budget		6.30.2018	_	Budget		equested								
892278 - Oakwood Combined Sewer Overflow	\$	1,492,700	Ş	1,364,400	\$	1,714,700	Ş	1,306,300	Ş	1,343,800	Ş	1,303,100	Ş	1,518,600	\$	1,321,200
3.1 Electric		427,600		427,500		504,700		475,000		475,000		480,000		485,000		485,000
3.2 Gas		20,300		16,300		10,500		18,300		18,300		18,500		18,800		18,800
3.3 Sewage Service		347,900		347,600		523,500		385,600		385,600		386,000		387,300		387,300
3.4 Water Service		169,500		169,100		143,000		190,000		190,000		191,000		192,000		192,000
4.1 Chemicals		109,000		108,700		110,000		110,000		110,000		110,000		115,000		115,000
4.2 Supplies & Other		358,400		273,300		423,000		127,400		164,900		117,600		320,500		123,100
Capital Outlay over \$5k(O&M-Capitalized)	\$	10,600	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Office Supplies		2,000		300		500		-		-		-		-		-
Operating Supplies		11,000		9,200		10,000		10,500		11,200		11,600		12,200		12,800
Repairs & Maintenance-Equipment		95,800		24,800		218,500		96,900		133,700		86,000		138,300		90,300
Repairs & Maintenance-Facilities		239,000		239,000		194,000		20,000		20,000		20,000		170,000		20,000
4.3 Contractual Services		60,000		21,900		-		-		-		-		-		-
892279 - Belle Isle Combined Sewer Overflow	\$	79,200	\$	(200)	\$	137,600	\$	-	\$	100	\$	200	\$	-	\$	-
4.1 Chemicals		7,000		8,300		10,000		11,000		11,000		11,000		15,000		15,000
4.2 Supplies & Other		182,600		102,700		134,000		63,900		65,500		67,100		68,800		90,600
Capital Outlay over \$5k(O&M-Capitalized)	\$	58,600	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Office Supplies		1,000		-		-		-		-		-		-		-
Operating Supplies		4,200		3,200		4,000		4,200		4,400		4,600		4,900		5,200
Repairs & Maintenance-Equipment		38,800		37,300		50,000		30,400		31,300		32,200		33,100		34,100
Repairs & Maintenance-Facilities		80,000		62,200		80,000		29,300		29,800		30,300		30,800		51,300
4.3 Contractual Services		23,000		22,200		-		-		-		-		-		-
5.2 Shared Services		(133,400)		(133,400)		(6,400)		(74,900)		(76,400)		(77,900)		(83,800)		(105,600)
897600 - Wastewater System Operations Unallocated	\$	1,161,500	\$	-	\$	2,440,500	\$	3,264,900	\$	3,976,300	\$	7,050,800	\$	7,636,600	\$	8,696,600
7.0 Unallocated Reserve		1,161,500		-		2,440,500		3,264,900		3,976,300		7,050,800		7,636,600		8,696,600
Grand Total	\$1	20,955,500	\$10	07,400,000	\$	114,985,700	\$1	17,758,700	\$1	20,139,900	\$1	22,569,400	\$1	25,048,200	\$1	27,609,600



## **Highlights**

## The Wastewater Operations Area (Pumping (Lift) Stations only) strategic initiatives include:

## **\*** Maximize pumping reliability

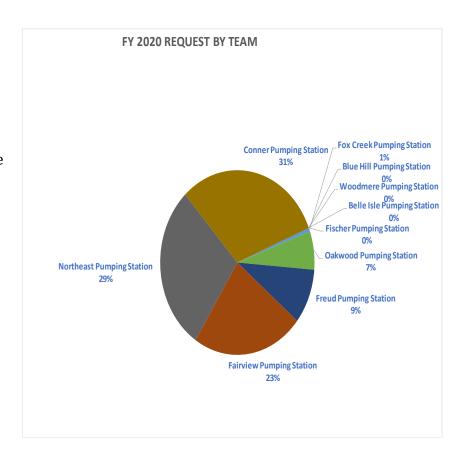
Regularly scheduled preventive maintenance is necessary and required to maintain the condition of all pumping (lift) stations

## Minimize energy usage

Energy consumption is dependent on flow rate, total pressure, climate (more intense rainfall) and overall pump efficiency. Energy can be minimized through proper preventive maintenance in order to maintain the condition of all pumping (lift) stations.

## **Organization**

The GLWA Wastewater
Operations Pumping (Lift)
Stations are facilities designed to
move wastewater from lower to
higher elevation, particularly
where the elevation of the source
is not sufficient for gravity flow
and/or when the use of gravity
conveyance will result in
excessive excavation depths and
high sewer construction costs.



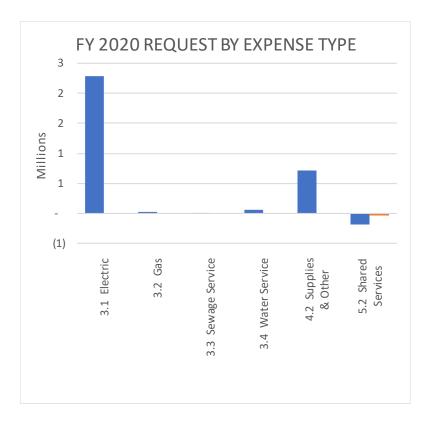


## **Expense Categories**

There is one major category of expenses in the Wastewater Operations pumping stations Operations and Maintenance Budget as listed below.

### Utilities - Electric

Utilities - Electric is the highest expense category for Wastewater Operations pumping (lift) stations. Increased water demand leads to increased energy consumption in order to transport enough safe drinking water to the GLWA's communities.





# **Biennial Budget Request**

The biennial reflects a decrease in FY 2020 as a result of energy consumption being dependent on flow rate, total pressure, climate (more intense rainfall), and overall pump efficiency.

## Biennial Budget Request by Expense Category

Expense Category	Ţ	Ame	FY 2018 nded Budget	FY 2018 Activity thru 06.30.2018		FY 2019 Amended Budget	FY 2020 epartment Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance	FY 2021 epartment Requested
3.1 Electric		\$	2,434,000	\$ 2,109,800	\$	2,508,000	\$ 2,291,300	\$ (216,700)	-8.6%	\$ 2,317,600
3.2 Gas			47,000	16,500		19,000	28,300	9,300	48.9%	28,700
3.3 Sewage Service			27,000	7,300		26,200	11,200	(15,000)	-57.3%	11,200
3.4 Water Service			50,000	27,400		65,000	66,300	1,300	2.0%	67,600
4.1 Chemicals			-	-		-	-	-	N/A	-
4.2 Supplies & Other			676,000	553,200		715,000	706,800	(8,200)	-1.1%	714,800
4.3 Contractual Services			-					-	N/A	-
5.2 Shared Services			(83,300)	(83,300)		-	(177,300)	(177,300)	N/A	(180,800)
Grand Total		\$	3,150,700	\$ 2,630,900	\$	3,333,200	\$ 2,926,600	\$ (406,600)	-12.2%	\$ 2,959,100

# Biennial Budget Request by Team

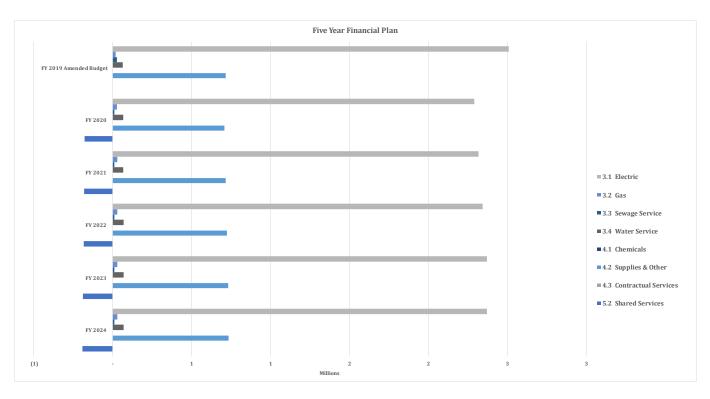
			FY 2018			FY 2020	FY 2020	FY 2020	FY 2021
	FY 2018		Activity thru	FY	2019	Department	Dollar	Percent	Department
Team ,T	Amended Budget		06.30.2018	Amend	ed Budget	Requested	Variance	Variance	Requested
Pumping (Lift) Stations (Wastewater Only)	\$ 3,150,700	\$	2,630,900	\$	3,333,200	\$ 2,926,600	\$ (406,600)	-12.2%	\$ 2,959,100
Belle Isle Pumping Station	44,200				80,000		(80,000)	-100.0%	-
Blue Hill Pumping Station	8,500		-		80,000	-	(80,000)	-100.0%	-
Brennan Pools Pumping Station			-		-	-	-	N/A	-
Conner Pumping Station	887,000		831,900		897,000	899,400	2,400	0.3%	916,900
Fairview Pumping Station	685,000		616,100		571,000	680,200	109,200	19.1%	690,400
Fischer Pumping Station	(6,000)	)			40,000	-	(40,000)	-100.0%	-
Fox Creek Pumping Station	15,000		1,500		18,200	18,500	300	1.6%	18,900
Freud Pumping Station	295,000		223,300		356,000	281,600	(74,400)	-20.9%	282,200
Northeast Pumping Station	1,036,000		792,200		1,018,000	850,000	(168,000)	-16.5%	850,000
Oakwood Pumping Station	193,000		165,900		193,000	196,900	3,900	2.0%	200,700
Woodmere Pumping Station	(7,000	)	-		80,000	-	(80,000)	-100.0%	
Grand Total	\$ 3,150,700	\$	2,630,900	\$	3,333,200	\$ 2,926,600	\$ (406,600)	-12.2%	\$ 2,959,100

### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

		FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	FY 2019	Department	Dollar	Percent	Department	Department	Department	Department
Expense Category		t Requested	Variance	Variance	Requested	Requested	Requested	Requested
3.1 Electric	\$ 2,508,00	\$ 2,291,300	\$ (216,700)	-8.6%	\$ 2,317,600	\$ 2,343,900	\$ 2,370,200	\$ 2,370,200
3.2 Gas	19,00	28,300	9,300	48.9%	28,700	29,100	29,500	29,500
3.3 Sewage Service	26,20	11,200	(15,000)	-57.3%	11,200	11,300	11,300	11,300
3.4 Water Service	65,00	66,300	1,300	2.0%	67,600	68,900	70,200	70,200
4.1 Chemicals		-	-	N/A	-		-	-
4.2 Supplies & Other	715,00	706,800	(8,200)	-1.1%	714,800	722,800	730,900	734,800
4.3 Contractual Services		-	-	N/A	-	-	-	-
5.2 Shared Services		- (177,300)	(177,300)	N/A	(180,800)	(184,300)	(187,900)	(191,800)
Grand Total	\$ 3,333,20	\$ 2,926,600	\$ (406,600)	-12.2%	\$ 2,959,100	\$ 2,991,700	\$ 3,024,200	\$ 3,024,200





## Five-Year Financial Plan by Team

Team	ĵΨ	FY 2019 Amended Budget	FY 2020 Department Requested	FY 2020 Dollar Variance	FY 2020 Percent Variance	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
Belle Isle Pumping Station	\$	80,000	\$ -	\$ (80,000)	-100.0%	\$ -	\$ -	\$ -	\$ -
Blue Hill Pumping Station		80,000	-	(80,000)	-100.0%	-	-	-	
<b>Brennan Pools Pumping Station</b>		-	-	-	N/A	-	-	-	
Conner Pumping Station		897,000	899,400	2,400	0.3%	916,900	934,300	951,800	951,800
Fairview Pumping Station		571,000	680,200	109,200	19.1%	690,400	700,600	710,800	710,800
Fischer Pumping Station		40,000	-	(40,000)	-100.0%	-	-	-	-
Fox Creek Pumping Station		18,200	18,500	300	1.6%	18,900	19,300	19,700	19,700
Freud Pumping Station		356,000	281,600	(74,400)	-20.9%	282,200	282,900	283,500	283,500
Northeast Pumping Station		1,018,000	850,000	(168,000)	-16.5%	850,000	850,000	850,000	850,000
Oakwood Pumping Station		193,000	196,900	3,900	2.0%	200,700	204,600	208,400	208,400
Woodmere Pumping Station		80,000	-	(80,000)	-100.0%	-	-	-	-
Grand Total	\$	3,333,200	\$ 2,926,600	\$ (406,600)	-12.2%	\$ 2,959,100	\$ 2,991,700	\$3,024,200	\$3,024,200

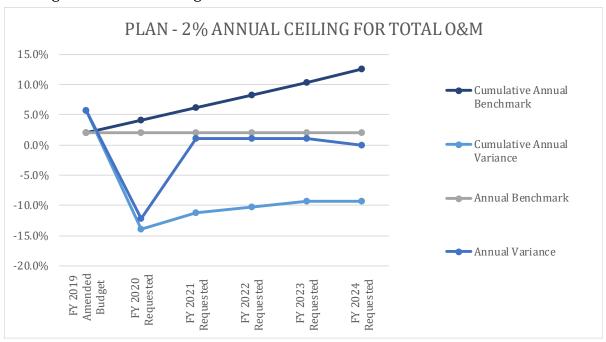
### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Wastewater Operations pumping (lift) stations Group's financial plan reflects a Five Year Overall decrease of 9.3% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated 0&M reserve".

This decrease is not unexpected given the consistency of these major initiatives. And while there is a decreased expense in the short-term, it is believed that this is the result of realigning the expenses



to reflect current energy consumption which is dependent on flow rate, total pressure, climate (more intense rainfall), and overall pump efficiency. The realignment will result in a more effective utility in the long-run to better manage the use of resources.



# **Effective Utility Management Measures**

[Will be presented with January 2019 update]

## **Capital Outlay**

[Currently not a component of this group]

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in report order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



	 	FY 2018	Y 2019					
	2018 Amended	•	-	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	udget	Requested	Requested	Requested	Requested	Requested
892342 - Belle Isle Pumping Station	\$ 44,200	•	\$ 80,000		\$ -	\$ -	\$ -	\$ -
4.2 Supplies & Other	73,000	28,800	80,000	55,300	56,400	57,500	58,700	59,900
Repairs & Maintenance-Equipment	73,000	28,800	80,000	55,300	56,400	57,500	58,700	59,900
5.2 Shared Services	(28,800)	(28,800)	-	(55,300)	(56,400)	(57,500)	(58,700)	(59,900)
892343 - Blue Hill Pumping Station	8,500	-	80,000	-	-	-	-	-
4.2 Supplies & Other	50,000	41,500	80,000	74,000	75,500	77,000	78,500	80,100
Repairs & Maintenance-Equipment	50,000	41,500	80,000	74,000	75,500	77,000	78,500	80,100
5.2 Shared Services	(41,500)	(41,500)	-	(74,000)	(75,500)	(77,000)	(78,500)	(80,100)
892345 - Conner Pumping Station	887,000	831,900	897,000	899,400	916,900	934,300	951,800	951,800
3.1 Electric	700,000	687,300	700,000	714,000	728,000	742,000	756,000	756,000
3.2 Gas	2,000	300	2,000	2,000	2,100	2,100	2,200	2,200
3.3 Sewage Service	25,000	7,200	25,000	10,000	10,000	10,000	10,000	10,000
3.4 Water Service	10,000	10,000	20,000	20,400	20,800	21,200	21,600	21,600
4.2 Supplies & Other	150,000	127,100	150,000	153,000	156,000	159,000	162,000	162,000
Repairs & Maintenance-Equipment	150,000	127,100	150,000	153,000	156,000	159,000	162,000	162,000
892346 - Fairview Pumping Station	685,000	616,100	571,000	680,200	690,400	700,600	710,800	710,800
3.1 Electric	500,000	446,300	500,000	510,000	520,000	530,000	540,000	540,000
3.2 Gas	15,000	9,700	1,000	10,000	10,000	10,000	10,000	10,000
3.4 Water Service	10,000	8,900	10,000	10,200	10,400	10,600	10,800	10,800
4.2 Supplies & Other	160,000	151,200	60,000	150,000	150,000	150,000	150,000	150,000
Repairs & Maintenance-Equipment	160,000	151,200	60,000	150,000	150,000	150,000	150,000	150,000
892347 - Fischer Pumping Station	(6,000)	-	40,000	-	-	-	-	-
4.2 Supplies & Other	-	6,000	40,000	12,000	12,200	12,400	12,600	12,900
Repairs & Maintenance-Equipment		6,000	40,000	12,000	12,200	12,400	12,600	12,900
5.2 Shared Services	(6,000)	(6,000)	-	(12,000)	(12,200)	(12,400)	(12,600)	(12,900)
892348 - Fox Creek Pumping Station	15,000	1,500	18,200	18,500	18,900	19,300	19,700	19,700
3.1 Electric	3,000	1,400	2,000	2,000	2,100	2,100	2,200	2,200
3.3 Sewage Service	2,000	100	1,200	1,200	1,200	1,300	1,300	1,300
3.4 Water Service	10,000	-	15,000	15,300	15,600	15,900	16,200	16,200
892349 - Freud Pumping Station	295,000	223,300	356,000	281,600	282,200	282,900	283,500	283,500
3.1 Electric	175,000	162,700	250,000	200,000	200,000	200,000	200,000	200,000
3.2 Gas	30,000	6,500	16,000	16,300	16,600	17,000	17,300	17,300
3.4 Water Service	15,000	8,500	15,000	15,300	15,600	15,900	16,200	16,200
4.2 Supplies & Other	75,000	45,600	75,000	50,000	50,000	50,000	50,000	50,000
Repairs & Maintenance-Equipment	75,000	45,600	75,000	50,000	50,000	50,000	50,000	50,000
892350 - Northeast Pumping Station	1,036,000	792,200	1,018,000	850,000	850,000	850,000	850,000	850,000
3.1 Electric	943,000	699,300	943,000	750,000	750,000	750,000	750,000	750,000
4.2 Supplies & Other	93,000	92,900	75,000	100,000	100,000	100,000	100,000	100,000
Repairs & Maintenance-Equipment	93,000	92,900	75,000	100,000	100,000	100,000	100,000	100,000
892351 - Oakwood Pumping Station	193,000	165,900	193,000	196,900	200,700	204,600	208,400	208,400
3.1 Electric	113,000	112,800	113,000	115,300	117,500	119,800	122,000	122,000
3.4 Water Service	5,000	-	5,000	5,100	5,200	5,300	5,400	5,400
4.2 Supplies & Other	75,000	53,100	75,000	76,500	78,000	79,500	81,000	81,000
Repairs & Maintenance-Equipment	75,000	53,100	75,000	76,500	78,000	79,500	81,000	81,000
4.3 Contractual Services	-	-	-	-	-	-	-	-
Contractual Professional Services	-	-	-	-	-	-	-	-
892352 - Woodmere Pumping Station	(7,000)	-	80,000	-	-	-	-	-
4.2 Supplies & Other	-	7,000	80,000	36,000	36,700	37,400	38,100	38,900
Repairs & Maintenance-Equipment	-	7,000	80,000	36,000	36,700	37,400	38,100	38,900
5.2 Shared Services	(7,000)	(7,000)	-	(36,000)	(36,700)	(37,400)	(38,100)	(38,900)
Grand Total	\$ 3,150,700	\$ 2,630,900	\$ 3,333,200	\$ 2,926,600	\$ 2,959,100	\$ 2,991,700	\$ 3,024,200	\$ 3,024,200

## **Highlights**

## The Planning Services Area presently is leading GLWA with several strategic initiatives.

The following tables outline the initiatives for the Water System, Wastewater System and Both Systems, GLWA wide. Budget values beyond contract end date shown are for updates or implementation of the program. Procurement of these services would require a separate procurement process.

## **Water System Programs:**

- ❖ Transmission System Pipe Integrity Program: To assess the risk to water delivery infrastructure through the physical review of the system as well as assessing member reliability.
- ❖ Water Master Plan Update: An update to this plan that is forecast to occur periodically ensuring GLWA continues to meet the needs of its members.
- Units of Service for Non-Master Meter Members of Great Lakes Water Authority and System Water Audit: An analytical review data to quantify flow volumes for members who have historically not had master meters.

	Transmission System Pipe		Units of Service for Non-Master	
M	Integrity Program	Water Master	Meter	Total
Water System	(TSIP)	Plan Update	Customers	i otai
	To be	To be		
Prime Consultant	Determined	Determined	Black & Veatch	
	To be	To be		
Contract #	Determined	Determined	GLWA-CS-039	
Contract Amount	n/a	n/a	\$ 1,300,740	\$ 1,300,740
Contract End Date	n/a	n/a	1/31/2019	
	Asset		Systems	
Cost Center Name	Management	Systems Planing	Analytics	
Pre-FY 2018 Spend			108,936	\$ 108,936
FY 2018			632,105	\$ 632,105
FY 2019 Budget			495,040	\$ 495,040
FY 2020 Estimate	2,063,488			\$ 2,063,488
FY 2021 Estimate	2,194,643	850,000		\$ 3,044,643
FY 2022 Estimate	5,741,150	1,000,000		\$ 6,741,150
FY 2023 Estimate	7,201,350			\$ 7,201,350
FY 2024 Estimate	8,380,334		500,000	\$ 8,880,334
Post-FY 2024				
Contract Completion	ongoing			\$ -
Total	\$ 25,580,965	\$ 1,850,000	\$ 1,736,081	\$ 29,167,046

### **Wastewater System Programs:**

❖ Wastewater Master Plan: To maximize the use of existing GLWA and member facilities through the review of collection and treatment facilities in order to produce affordable solutions.

Draft 12.20.2018

## **Wastewater System Programs (Continued)**

- ❖ Good Sewer Metering Practice Analysis & Support: The ongoing program in support of the Wastewater Analytics Task Force (WATF) and consists of four core elements: metering, sewer shares analysis and review, collection system initiative, and Water Resource Recovery Facility initiatives.
- ❖ **Meter Dye Testing:** A program to review and ensure the accuracy of the sewer meters through repair and calibration.
- ❖ Professional and Technical Sewer Support Services: A program for the calibration, corrective maintenance and emergency repair of sewer meters in the collection system. This program also covers the installation of control cabinets and programmable controllers at various locations throughout the collection system.
- ❖ Sewer Shares Update Sampling and Consulting: A program, working with the member communities, to quantify pollutants entering the wastewater collection system and the associated impact of treatment at the Water Resource Recovery Facility.
- Collection System Modelling and Monitoring: A program for the collection, analysis and modelling of date to create alternative control strategies in the wastewater collection system.
- CSO Condition Assessment, Calibration and Preventative Maintenance: A program to assess the condition, calibrate, and maintain various meters in each of the Combined Sewer Overflow (CSO) facilities.

		Good Sewer					CSO Condition	
		Metering		Professional and	Sewer Shares	Collection	Assessment,	
	Wastewater	Practice		Tehchincal	Update -	System	Calibration &	
	Master Plan &	Analysis &	Meter Dye	Sewer Support	Sampling and	Modeling and	Preventative	
Wastewater System	Update	Support	Testing	Services	Consulting	Monitoring	Maintenance	Total
	0 p 111111	Саррого	1 40	00111000	To be	To be	To be	1 0 001
Prime Consultant	CDM Smith	CDM Smith	Applied Science	PCI LLC	Determined	Determined	Determined	
			• •		To be	To be	To be	
Contract #	GLWA-CS-036	GLWA-CS-239	GLWA-CS-236	GLWA-CON-179	Determined	Determined	Determined	
					_			
Contract Amount	\$ 8,320,876	\$ 2,420,906	\$ 1,435,054	\$ 4,965,840	Not Determined	Not Determined	Not Determined	\$ 17,142,676
Contract End Date	01/31/20	06/15/21	02/28/20	07/02/22	Not Determined	Not Determined	Not Determined	
	, ,	Systems	Systems	Systems	Systems	Systems	Systems	
Cost Center Name	Systems Planning	Analytics	Analytics	Analytics	Analytics	Analytics	Analytics	
Pre-FY 2018 Spend	441,374	566,172	620,633	151,143				\$ 1,779,322
FY 2018	3,011,162	280,291	659,509	989,330		392,411		\$ 5,332,703
FY 2019 Budget	3,235,000	800,000	675,000	655,380	991,400			\$ 6,356,780
FY 2020 Estimate	760,000	816,000	875,000	655,380	500,000	1,542,120	470,000	\$ 5,618,500
FY 2021 Estimate	-	832,320	675,000	655,380		1,255,000	470,000	\$ 3,887,700
FY 2022 Estimate	-	848,970	875,000	655,380	500,000		470,000	\$ 3,349,350
FY 2023 Estimate	-	865,945	675,000	655,380	250,000		470,000	\$ 2,916,325
FY 2024 Estimate	500,000	883,260	875,000	655,380			470,000	\$ 3,383,640
Post-FY 2024	,	,	,	,			,	
Contract Completion	-	ongoing	ongoing	ongoing			ongoing	\$ -
Total	\$ 7,947,536	\$ 5,892,958	\$ 5,930,142	\$ 5,072,753	\$ 2,241,400	\$ 3,189,531	\$ 2,350,000	\$ 32,624,320

## **Both Systems (GLWA Wide) Initiatives**

- ❖ Strategic Asset Management Plan (SAMP): To identify the timing related to key initiatives, identify how asset management related information is used to drive prudent CIP expenditures and provide a long-term, 10-year, roadmap to execute various asset management initiatives
- ❖ Capital Program Management: A program to develop a long-term strategy for the development, coordination and execution of the Capital Improvement Program through various strategies, including the development of a Project Management Office.
- ❖ Computerized Maintenance System Support: Support services for the computer package that allows GLWA to manage the maintenance of equipment and facilities throughout the water and wastewater systems.
- **❖ Modelling, Sampling and Engineering Services:** Services to be engaged in support of the various initiatives that may be outside the scope of the original project.

Both Systems	Strategic Asset Management Plan (SAMP)	Capital Program Management	CMMS System Support	Modeling and Sampling Engineering Services		Total
Both Systems	Jacobs	To be	Experis	To be	Π	rotar
Prime Consultant	Engineering	Determined	Finanaical	Determined		
Time donourum	Linginicering	Determined	1 manarcar	To be		
Contract #	GLWA-CS-198	GLWA-CS-272	PO 3678	Determined		
Contract Amount	\$ 4,113,267	Not Determined	\$ 320,000 Annually	n/a	\$	4,433,267
Contract End Date		Not Determined	08/25/19	n/a		.,,
Cost Center Name	Asset Management	Capital Improvement Planning	Asset Management	Planning Services		
Pre-FY 2018 Spend	_	_	289,255		\$	289,255
FY 2018	50,000	-	294,684		\$	344,684
FY 2019 Budget	1.327.000	172.250	320.000	319.780	\$	2,139,030
FY 2020 Estimate	1,208,000	1,320,000	320,000	100,000	\$	2,948,000
FY 2021 Estimate	936,000	1.320.000	320,000	101,200	\$	2,677,200
FY 2022 Estimate	1.000.000	770,000	320.000	102,400	\$	2,192,400
FY 2023 Estimate	1,000,000	1,640,625	150,000	103,600	\$	2,894,225
FY 2024 Estimate	1,000,000	1,674,300	150,000	104,800	\$	2,929,100
Post-FY 2024 Contract Completion	,000,000	, 3. 0,000	-	ongoing	\$	-
Total	\$ 6,521,000	\$ 6,897,175	\$ 2,163,939	\$ 831,780	\$	16,413,894

## **Organization**

The GLWA System Planning Area consists of five teams.

- Office of the Chief Planning Officer – administration and oversight of GLWA's planning efforts
- Asset Management responsible for leading the asset management strategy at GLWA
- Systems Planning responsible for internal and external strategic planning, outreach and coordination with customer communities
- Capital Improvement Planning – manages the planning and execution of the capital improvement plan



❖ Systems Analytics – responsible for maintaining meter operations and analyzing flow data for both water and wastewater

Draft 12.20.2018

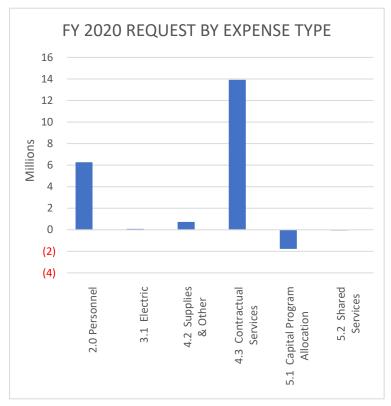
## **Expense Categories**

There are two major categories of Planning Services Area expenses in the Operations and Maintenance Budget as listed below.

- Contractual services
- Personnel Costs

In addition to the strategic initiatives noted above, the Planning Services Area also sponsors the third-party consultant, Bridgeport, who ensures that GLWA Member Partners are engaged in decision making that affects the region today and in the future.

The Planning Services Area has been in existence for nearly four years. Given the breadth of assignments, recruiting and retaining top talent is a high priority. Accordingly, personnel is the second



highest expense category. It is expected that a portion of the daily activities of the Planning Services Area will grow to have a more direct impact on capital delivery either through staff or via an upcoming selection of a capital program management firm. To the extent that occurs, an allocation of this Area's effort will be assigned to construction work-in-progress.

## **Biennial Budget Request**

The biennial reflects an increase in FY 2020 as a result of the ramp up of the strategic initiatives defined above.

## Biennial Budget Request by Expense Category

	FY 2018	FY 2018	FY 2019	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
	Amended	Activity thru	Amended	Activity thru	Department	Dollar	Percent	Department
Expense Categories	Budget	06.30.2018	Budget	10.31.2018	Requested	Variance	Variance	Requested
2.0 Personnel	4,940,900	4,062,500	5,152,700	1,481,894	6,272,400	1,119,700	21.7%	6,659,500
3.1 Electric	67,900	68,000	110,400	17,360	80,500	(29,900)	-27.1%	81,700
4.2 Supplies & Other	1,206,600	1,256,500	544,400	215,997	726,400	182,000	33.4%	649,800
4.3 Contractual Services	8,421,300	8,421,400	11,995,400	3,151,856	13,918,400	1,923,000	16.0%	12,840,900
5.1 Capital Program Allocation	-	-	(1,931,000)	-	(1,776,200)	154,800	-8.0%	(1,811,800)
5.2 Shared Services	(220,000)	(220,000)	(357,500)	(156,492)	(60,000)	297,500	-83.2%	-
Grand Total	\$ 14,416,700	\$ 13,588,400	\$ 15,514,400	\$4,710,614	\$ 19,161,500	\$ 3,647,100	23.5%	\$ 18,420,100

## Biennial Budget Request by Team

												FY 2020		
				FY 2018	FY 2019		FY 2019		FY 2020		FY 2020	Percent		FY 2021
		FY 2018 Amended	Α	ctivity thru	Amended	Ac	tivity thru	D	epartment		Dollar	Varianc	D	epartment
Team	T.	Budget	0	6.30.2018	Budget	10	.31.2018	R	equested	١	Variance	e	R	equested
Asset Management		\$ 1,711,300	\$	1,711,200	\$ 2,534,800	\$	826,611	\$	4,990,100	\$	2,455,300	96.9%	\$	4,766,000
Capital Improvement Planning		-		-	693,000		3,571		1,943,900		1,250,900	180.5%		2,171,700
Chief Planning Officer		886,600		886,700	390,600		164,925		408,900		18,300	4.7%		525,000
Energy Management		196,400		196,200	-		-		-		-			-
Systems Analytics		7,335,800		6,497,400	7,501,800		1,946,139		9,385,500		1,883,700	25.1%		8,299,200
Systems Planning		4,286,600		4,286,600	4,394,200		1,769,369		2,433,100		(1,961,100)	-44.6%		2,658,200
Grand Total		\$ 14.416.700	\$	13.578.100	\$ 15.514.400	\$ 4	1.710.614	\$ 1	19.161.500	\$	3.647.100	23.5%	\$ :	8.420.100

## **Personnel Budget**

The staffing plan (Table 1 on the following page) provides for a steady state of 71 positions as of FY 2021. These positions are forecast to be filled by FY 2023 as Planning Services levels out its staffing requirements.

1. *Staffing Plan – Number of Positions* - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

## Staffing Plan

	Prior Year	Current Year	Biennia	Budget			
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Team	Staffing Plan	Staffing Plan	Staffing Plan	Staffing Plan	<b>Staffing Plan</b>	Staffing Plan	Staffing Plan
Planning Services	68.00	62.00	70.00	71.00	71.00	71.00	71.00
Chief Planning Officer	5.00	3.00	3.00	3.00	3.00	3.00	3.00
Systems Planning	4.00	4.00	7.00	8.00	8.00	8.00	8.00
Asset Management	9.00	7.00	9.00	9.00	9.00	9.00	9.00
Energy Management	3.00	0.00	0.00	0.00	0.00	0.00	0.00
Systems Analytics	39.00	40.00	43.00	43.00	43.00	43.00	43.00
Capital Improvement Planning	8.00	8.00	8.00	8.00	8.00	8.00	8.00

2. *Full Time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs project an increase over the next five years.

### Full Time Equivalents

	Prior Year	Current Year	Biennial	Budget	Forecast						
Team	FY 2018 Approved FTEs	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's				
Planning Services	63.50	60.25	64.25	68.50	70.00	71.00	71.00				
Chief Planning Officer	4.50	3.00	2.00	3.00	3.00	3.00	3.00				
Systems Planning	3.25	4.00	6.00	7.00	7.25	8.00	8.00				
Asset Management	8.00	7.00	9.00	9.00	9.00	9.00	9.00				
Energy Management	2.75	0.00	0.00	0.00	0.00	0.00	0.00				
Systems Analytics	39.00	40.00	43.00	43.00	43.00	43.00	43.00				
Capital Improvement Planning	6.00	6.25	4.25	6.50	7.75	8.00	8.00				

3. *Personnel Budget* – The table below presents the Planning Services personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits and Contractual Transition Services. These values are based on the *Full Time Equivalents* in table 2.

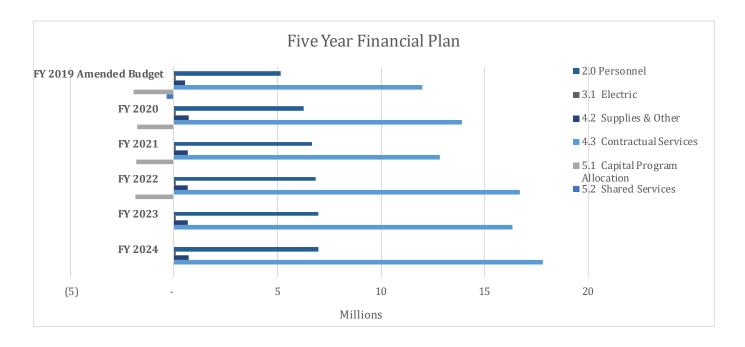
### Personnel Budget

		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	FY 2019	Department	Department	Department	Department	Department
Team	Amended Budget	Requested	Requested	Requested	Requested	Requested
Chief Planning Officer	344,100	292,000	355,800	357,300	358,800	360,300
Systems Planning	411,100	588,700	680,900	712,400	801,400	804,900
Asset Management	892,000	1,111,800	1,116,500	1,121,100	1,125,700	1,130,400
Systems Analytics	2,812,500	3,780,500	3,792,300	3,807,200	3,822,000	3,836,900
Capital Improvement Plannin	g 693,000	499,400	714,000	829,700	854,100	857,700
<b>Grand Total</b>	\$5,152,700	\$6,272,400	\$6,659,500	\$6,827,700	\$6,962,000	\$6,990,200

## **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

		FV 2010	_	FY 2020	FY 2020		FY 2020	FY 2021		FY 2022		FY 2023		FY 2024
Expense Categories	Ame	FY 2019 ended Budget		epartment Requested		Dollar Variance	Percent Variance	Department Requested		Department Requested		epartment Requested		Department Requested
2.0 Personnel	\$	5,152,700	\$	6,272,400	\$	1,119,700	21.7%	\$ 6,659,500		6,827,700		6,962,000		6,990,200
3.1 Electric		110,400		80,500		(29,900)	-27.1%	\$ 81,700		82,000		82,200		82,400
4.2 Supplies & Other		544,400		726,400		182,000	33.4%	\$ 649,800		649,300		673,400		697,900
4.3 Contractual Services		11,995,400		13,918,400		1,923,000	16.0%	\$ 12,840,900		16,721,200		16,360,500		17,795,700
5.1 Capital Program Allocation		(1,931,000)		(1,776,200)		154,800	-8.0%	\$ (1,811,800)		(1,848,000)		-		-
5.2 Shared Services		(357,500)		(60,000)		297,500	-83.2%	\$ -		-		-		-
Grand Total	\$	15,514,400	\$	19,161,500	\$	3,647,100	23.5%	\$ 18,420,100	\$	22,432,200	\$	24,078,100	\$	25,566,200



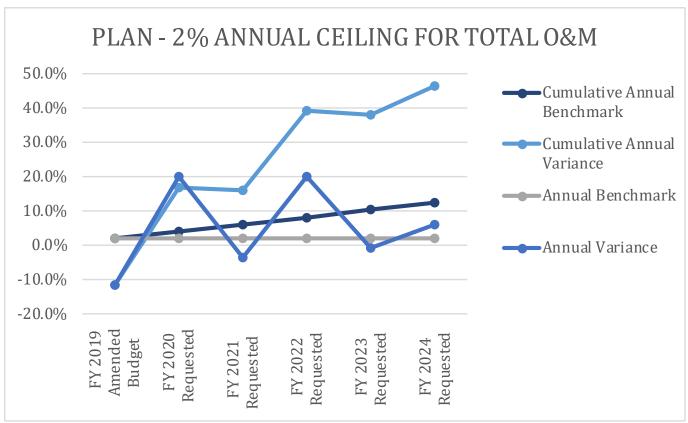
# Five-Year Financial Plan by Team

_	FY 2019 Amended	Department Dollar I		FY 2020 Percent	Percent Department		FY 2022 Department		FY 2023 Department		FY 2024 Department		
Row Labels	Budget		Requested	Variance	Variance		Requested	R	equested	Requested		Requested	
Asset Management	\$ 2,534,800.00	\$	4,990,100.00	\$ 2,455,300.00	96.9%	\$	4,766,000	\$	8,397,500	\$	9,915,700	\$	11,133,400
Capital Improvement Planning	693,000		1,943,900	1,250,900	180.5%		2,171,700		1,742,200		2,640,200		2,680,000
Chief Planning Officer	390,600		408,900	18,300	4.7%		525,000		523,100		527,000		527,700
Systems Analytics	7,501,800		9,385,500	1,883,700	25.1%		8,299,200		8,914,300		8,535,800		8,647,300
Systems Planning	4,394,200		2,433,100	(1,961,100)	-44.6%		2,658,200		2,855,100		2,459,400		2,577,800
Grand Total	\$ 15,514,400	\$	19,161,500	\$ 3,647,100	23.5%	\$	18,420,100	\$ 2	2,432,200	\$ 2	24,078,100	\$	25,566,200

### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Planning Services Area financial plan reflects a Five Year Overall increase of 46.5% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".

This increase is not unexpected given the ramp-up of these major initiatives. And while there is an increased expense in the short-term, it is believed that the implementation of the capital asset management plan and capital delivery program will result in a more effective utility in the long-run to better manage the use of resources.



#### **Effective Utility Management Measures**

open for 1.2019 revised draft

## **Capital Outlay**

Planning Services capital outlay is funded by both the O&M budget and the I&E budget. The largest component of this plan is an ongoing program to upgrade meters throughout the GLWA water and wastewater systems.

## Capital Outlay

	2020	2021	2022	2023	2024
	Department	Department	Department	Department	Department
Asset Categories	Requested	Requested	Requested	Requested	Requested
Flow Measuring & Meters	1,800,600	1,815,000	1,157,000	1,125,940	1,125,000
Furniture & Fixtures	276,000				
Leasehold Improvements	260,000				
Passenger Vehicles	25,000		28,000		26,000
Tools, Shop & Warehouse		38,574			39,744
Grand Total	\$2,361,600	\$1,853,574	\$1,185,000	\$1,125,940	\$1,190,744

# Capital Outlay by Funding Source

	2020	2021	2022	2023	2024
	Department	Department	Department	Department	Department
Funding Source	Requested	Requested	Requested	Requested	Requested
I&E	2,361,600	1,853,574	1,185,000	1,125,940	1,190,744
<b>Grand Total</b>	\$2,361,600	\$1,853,574	\$1,185,000	\$1,125,940	\$1,190,744

## Capital Outlay by Team

	2020 Department	2021 Department	2022 Department	2023 Department	2024 Department
Team	Requested	Requested	Requested	Requested	Requested
Systems Planning	336,000				
Asset Mangement	110,000		28,000		
Systems Analytics	1,800,600	1,853,574	1,157,000	1,125,940	1,164,744
<b>Capital Improvement Planning</b>	115,000				26,000
<b>Grand Total</b>	\$2,361,600	\$1,853,574	\$1,185,000	\$1,125,940	\$1,190,744

Draft 12.20.2018

# Line Item Budget and Financial Plan

The five-year plan with a line item expense budget begins below. The expenses are listed in alphabetical order by cost center.

					FY 2019						
		FY 2018		FY 2018	Board						
		Amended	Ac	tivity thru	Adopted		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	T	Budget	0	6.30.2018	Budget	- 1	Requested	Requested	Requested	Requested	Requested
886001 - Chief Planning Officer	\$	886,600	\$	886,700	\$ 390,600	\$	408,900	\$ 525,000	\$ 523,100	\$ 527,000	\$ 527,700
2.1 Salaries & Wages		315,300		315,300	268,600		232,600	277,300	277,300	277,300	277,300
2.3 Overtime		600		600	800		-	1,300	1,300	1,300	1,300
2.4 Employee Benefits		67,300		67,900	74,700		59,400	77,200	78,700	80,200	81,700
4.2 Supplies & Other		420,400		423,100	46,500		16,400	18,700	15,300	17,700	16,900
Capital Outlay less than \$5,000		-		-	34,900		2,000	2,000	2,000	2,000	2,000
Memberships, Licenses & Subscriptions		404,200		409,800	500		600	600	600	600	600
Mileage and Parking		200		200	200		200	200	200	200	200
Office Supplies		2,300		1,300	2,000		2,100	2,200	2,300	2,400	2,500
Postage		-		-	-		-	-	-	-	-
Training and Internal Meetings		6,400		3,500	3,800		3,500	3,600	3,800	3,900	4,700
Travel		7,300		6,300	5,100		6,000	8,100	6,400	8,600	6,900
Tuition Refund		-		2,000	-		2,000	2,000	-	· -	-
4.3 Contractual Services		83,000		79,800	_		100,500	150,500	150.500	150.500	150.500
Contractual Operating Services		1,000		500	_		500	500	500	500	500
Contractual Professional Services		82,000		79.300	_		100.000	150.000	150.000	150.000	150.000
886101 - Systems Planning	Ś	4,286,600	Ś	4,286,600	\$ 4,394,200	Ś	2,433,100	\$ 2,658,200	,	\$ 2,459,400	,
2.1 Salaries & Wages	-	228,800	-	228,900	317,500		452,600	518,800	540,900	607,200	607,200
2.3 Overtime					1,600		2,900	4,500	4,500	4,500	4,500
2.4 Employee Benefits		56,900		56,900	92,000		133,200	157,600	167,000	189,700	193,200
4.2 Supplies & Other		41,800		42,400	48,100		100,400	78,900	79,700	80,000	79,700
Capital Outlay less than \$5,000							26,800	70,500	75,700	-	75,700
Memberships, Licenses & Subscriptions							1,100	1,100	1,100	1,100	1,100
Mileage and Parking		1,200		1,200	1,800		3,600	4,800	4,800	4,800	4,800
Office Supplies		4,000		4,700	5,000		5,300	5,600	5,900	6,200	6,300
Operating Supplies		33,000		32,100	36,000		50,000	50,000	50,000	50,000	50,000
		33,000						5,400			
Training and Internal Meetings				800	1,600		4,600	,	5,900	5,900	5,100
Travel		3,600		3,600	3,700		9,000	12,000	12,000	12,000	12,400
4.3 Contractual Services		3,959,100		3,958,400	3,935,000		1,744,000	1,898,400	2,063,000	1,578,000	1,693,200
Contractual Professional Services		3,959,100		3,958,400	3,935,000		1,744,000	1,898,400	2,063,000	1,578,000	1,693,200
5.1 Capital Program Allocation							<del>.</del>	-		-	-
886201 - Asset Management	\$	1,711,300	\$	1,711,200	\$ 2,534,800	\$	, ,	\$ 4,766,000	\$ 8,397,500	\$ 9,915,700	\$ 11,133,400
2.1 Salaries & Wages		562,600		562,500	704,200		875,800	875,800	875,800	875,800	875,800
2.3 Overtime		3,700		3,500				-			
2.4 Employee Benefits		117,000		117,200	187,800		236,000	240,700	245,300	249,900	254,600
2.5 Transition Services		50,900		53,300					-	-	
4.2 Supplies & Other		298,200		293,100	73,900		216,800	77,700	120,800	126,900	132,600
Capital Outlay less than \$5,000		25,500		25,500	-		-	-	-	-	-
Capital Outlay over \$5k(O&M-Capitalized)					8,000				-	-	-
Memberships, Licenses & Subscriptions		1,100		1,000	1,000		1,200	1,200	1,200	1,300	1,300
Mileage and Parking		5,000		5,100	5,200		7,000	7,100	7,300	7,400	7,600
Office Supplies		2,000		6,100	4,000		6,000	6,300	6,600	6,900	7,200
Repairs & Maintenance-Software		235,000		235,000	36,000		180,000	40,000	80,000	85,000	90,000
Training and Internal Meetings		7,100		7,900	7,600		10,800	11,100	12,300	12,500	12,800
Travel		22,500		12,500	12,100		11,800	12,000	13,400	13,800	13,700
4.3 Contractual Services		678,900		681,600	3,453,400		3,661,500	3,571,800	7,155,600	8,663,100	9,870,400
Contractual Operating Services		253,000		266,300	-		-	-	-	-	-
Contractual Professional Services		425,900		415,300	3,453,400		3,661,500	3,571,800	7,155,600	8,663,100	9,870,400
5.1 Capital Program Allocation		-		-	(1,884,500)		-	-	-	-	-

Cost Center & Description	<b>-1</b>	FY 2018 Amended Budget		FY 2018 tivity thru 6.30.2018	Bo Ado	Y 2019 oard opted udget		FY 2020 equested		Y 2021 Juested		FY 2022 quested		' 2023 uested		FY 2024 quested
							Ś	questea	Ś		Ś	questea	\$		Ś	questea
886301 - Energy Management			\$	196,200	\$	-	Þ	-	Þ	-	Þ	-	Þ	-	Þ	-
2.1 Salaries & Wages 2.3 Overtime		41,400		41,300		-		-		-		-		-		-
		10 700		10.400		-		-		-		-		-		-
2.4 Employee Benefits		10,700		10,400		-		-		-		-		-		-
2.5 Transition Services		54,300		56,600		-		-		-		-		-		-
4.2 Supplies & Other		1,000		800		-		-		-		-		-		-
Memberships, Licenses & Subscriptions		-		-		-		-		-		-		-		-
Mileage and Parking		-		-		-		-		-		-		-		-
Operating Supplies		200		-		-		-		-		-		-		-
Training and Internal Meetings		-		-		-		-		-		-		-		-
Travel		800		800		-		-		-		-		-		-
4.3 Contractual Services		89,000		87,100		-		-		-		-		-		-
Contractual Professional Services		89,000		87,100		-		-		-		-		-		-
5.1 Capital Program Allocation				-		-		-		-		-		-		-
886401 - Systems Analytics		\$ 7,335,800	\$	6,507,700		,501,800	\$	9,385,500			\$	8,914,300		,535,800	\$	8,647,300
2.1 Salaries & Wages		1,252,800		1,252,000	1	,571,400		2,032,400	1	2,032,400		2,032,400	2	,032,400		2,032,400
2.2 Workforce Development		131,600		131,200		206,100		231,000		231,000		231,000		231,000		231,000
2.3 Overtime		78,000		78,700		78,000		83,900		83,900		83,900		83,900		83,900
2.4 Employee Benefits		507,200		507,900		610,600		757,000		771,800		786,700		801,500		816,400
2.5 Transition Services		1,461,800		578,300	1	,005,800		676,200		673,200		673,200		673,200		673,200
2.6 Personnel Transition Adjustment		-		-		(659,400)		-		-		-		-		-
3.1 Electric		67,900		68,000		110,400		80,500		81,700		82,000		82,200		82,400
4.2 Supplies & Other		445,200		497,100		375,900		378,300		447,900		404,300		418,900		438,600
Capital Outlay less than \$5,000		277,500		277,600		232,400		230,400		287,300		244,400		256,700		268,800
Capital Outlay over \$5k(O&M-Capitalized)		-		54,800		-		-		-		-		-		-
Memberships, Licenses & Subscriptions		1,000		-		-		-		-		-		-		-
Mileage and Parking		1,000		1,500		700		1,600		1,600		1,600		1,600		1,600
Office Supplies		14,300		14,700		15,000		15,300		15,400		15,400		15,400		15,800
Operating Supplies		14,700		14,500		12,900		14,600		14,600		14,600		14,600		15,500
Printing		, -		, -		· -		, -		-		· -		· -		-
Repairs & Maintenance-Equipment		68,200		68,100		60,000		60,600		72,700		73,400		73,100		76,100
Repairs & Maintenance-Hardware		20,800		19,800		14,000		8,300		8,600		9,000		9,400		9,700
Repairs & Maintenance-Miscellaneous		25,400		24,300		24,000		24,400		24,600		24,800		25,000		28,000
Training and Internal Meetings		5,000		4,800		5,000		5,100		5,100		5,100		5,100		5,100
Travel		2,800		2,700		3,000		3,000		3,000		3,000		5,000		5,000
Tuition Refund		1,400		1,400		5,000		2,000		2,000		5,000		3,000		5,000
Uniforms, Laundry, Cleaning		13,100		12,900		8,900		13,000		13,000		13,000		13,000		13,000
4.3 Contractual Services		3,611,300		3,614,500	1	1,607,000		5,206,200		3,977,300		4,620,800	1	,212,700		4,289,400
Contract Services-Information Technology		698,700		703,400	_	812,000		611,700		582,600		583,500	_	585,400		585,800
_,					2								2			
Contractual Operating Services Contractual Professional Services		2,219,000 693,600		2,279,000	э	495,000		4,594,500		3,394,700		4,037,300	э	,627,300		3,703,600
		693,600		632,100				-		-		-		-		-
5.1 Capital Program Allocation		(220,000)		(220,000)		(46,500)		-		-		-		-		-
5.2 Shared Services		(220,000)		(220,000)		(357,500)		(60,000)		-		-		-		-
Shared Services : Salaries & Wages Reimb		(20,600)		(20,500)		(69,300)		(21,100)		-		-		-		-
Shared Services Reimbursement		(191,200)		(191,300)		(288,200)		(38,900)		-		-		-		-
Shared Services: Employee Benefit Reimb		(8,200)		(8,200)		-								-		
886601 - Capital Improvement Planning			\$	-	\$	693,000	\$	1,943,900	\$ 2	2,171,700	\$	1,742,200	\$ 2	,640,200	\$	2,680,000
2.1 Salaries & Wages		-		-		538,500		387,700		551,000		635,100		651,900		651,900
2.3 Overtime		-		-		5,000				1,300		4,400		5,000		5,000
2.4 Employee Benefits		-		-		149,500		111,700		161,700		190,200		197,200		200,800
4.2 Supplies & Other		-		-		-		14,500		26,600		29,200		29,900		30,100
Memberships, Licenses & Subscriptions		-		-		-		1,200		1,200		1,200		1,300		1,300
Mileage and Parking		-		-		-		500		800		800		800		800
Office Supplies		-		-		-		1,500		1,500		1,500		1,500		1,500
Training and Internal Meetings		-		-		-		5,400		11,100		12,300		12,500		12,800
Travel		-		-		-		5,900		12,000		13,400		13,800		13,700
4.3 Contractual Services		-		-		-		3,206,200	:	3,242,900		2,731,300	1	,756,200		1,792,200
Contractual Professional Services		-		-		-		3,206,200	1	3,242,900		2,731,300	1	,756,200		1,792,200
5.1 Capital Program Allocation				-		-		(1,776,200)	(:	1,811,800)		(1,848,000)		-		
Grand Total		\$ 14,416,700	Ś	13.588.400	\$ 15	5.514.400	Ś.	19.161.500	\$ 18	8,420,100			\$ 24	,078,100	\$ 2	25,566,200

Page 12 of 12



## **Highlights**

The Chief Administrative Officer Area presently is leading GLWA in several strategic initiatives.

- **Establish a Succession Planning Process for the Utility -** support and advance the strategic vision of the Board of Directors and the Chief Executive Officer for the utility.
- Stand-up and Support Governmental Relations Initiative -retain Government Relations and Legislative Representation Services.
- ❖ Build Out of Risk Management/Safety Organization add additional professionals experienced in an array of environmental safety compliance matters such as chemical hygiene, process safety management, spill prevention, safety data sheets, safety audits, and risk management processes/procedures.

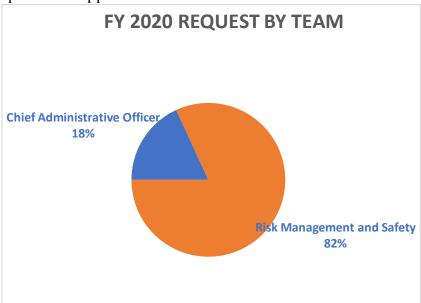
## **Organization**

The Chief Administrative Officer Area consists of two teams.

❖ Chief Administrative Officer – provides support to the Board of Directors and CEO. The

Office of the Chief Administrative and Compliance Officer provides coordinative services and administrative support to Enterprise Risk Management, Organizational Development, General Counsel Groups and Information Technology

Enterprise Risk Management – responsible for a process, effected by GLWA's board of directors and management, which is designed to identify potential



events that may affect the Authority, and to manage risk within its risk appetite to provide reasonable assurance regarding the achievement of GLWA's objectives

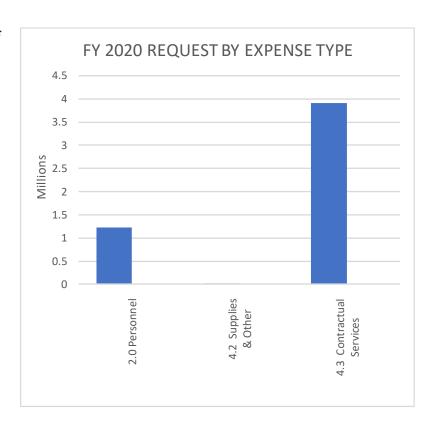


## **Expense Categories**

There are two major categories of Chief Administrative Officer expenses in the Operations and Maintenance Budget as listed below.

- Contractual Services
- Personnel

Contractual Services is the highest expense category and for FY 202,0 it is remaining consistent with prior and future budget years. The contractual services account encompasses three major contracts; Government Relation Services, County Fire and NTH Engineering contract (CS-213) which replaced SOMAT (CS-1513) for environmental health & safety compliance services.



### **Biennial Budget Request**

The biennial budget reflects a decrease in FY 2020 in personnel costs as a result of Enterprise Risk Management re-evaluating their staffing plan to delay filling open positions until second quarter of FY 2020.

Biennial Budget Request by Expense Category

		FY 2018		FY 2018	FY 2019		FY 2019		FY 2020	FY 2020	FY 2	020		FY 2021
		Amended	A	ctivity thru	Amended	Ac	ctivity thru	D	epartment	Dollar	Perc	ent	D	epartment
Expense Category	T,	Budget	0	6.30.2018	Budget	1	0.31.2018	]	Requested	Variance	Varia	nce	]	Requested
<b>■ 2.0 Personnel</b>	\$	911,700	\$	882,400	\$ 1,408,100	\$	298,321	\$	1,233,300	\$ (174,800)		12.4%	\$	1,414,400
<b>■ 4.2 Supplies &amp; Other</b>		11,000		8,800	8,000		9,492		23,100	15,100	1	88.8%		23,300
<b>■ 4.3 Contractual Services</b>		3,825,000		3,847,400	3,828,500		1,202,505		3,911,300	307,300		8.5%		3,964,600
<b>⊞ 5.1 Capital Program Allocation</b>	1	(8,600)		-	-		-		-	-		N/A		-
Grand Total	\$	4,739,100	\$	4,738,600	\$ 5,244,600	\$	1,510,318	\$	5,167,700	\$ 147,600		2.9%	\$	5,402,300



#### Biennial Budget Request by Team

		FY 2018		FY 2018		FY 2019		FY 2019		FY 2020	FY 2020	FY 20	20		FY 2021
		Amended	A	Activity thru		Amended	A	ctivity thru	D	epartment	Dollar	Perce	nt	D	epartment
Team	Ţ	Budget	0	6.30.2018		Budget	1	0.31.2018	F	Requested	Variance	Varia	ıce	F	Requested
Chief Administrative Officer	9	561,400	\$	561,400	\$	1,105,200	\$	231,283	\$	936,600	\$ 55,900		6.3%	\$	944,400
Risk Management and Safety		4,177,700		4,177,200		4,139,400		1,279,034		4,231,100	91,700		2.2%		4,457,900
<b>Grand Total</b>	9	4,739,100	\$	4,738,600	\$	5,244,600	\$	1,510,318	\$	5,167,700	\$ 147,600		2.9%	\$	5,402,300

#### **Personnel Budget**

Chief Administrative Officer Area consists of 13 positions for FY 2020, which is staying consistent with FY 2019 staffing level.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

#### Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
Chief Administrative Officer	9.00	13.00	13.00	13.00	13.00	13.00	13.00
Chief Administrative Officer	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Enterprise Risk Management	4.00	8.00	8.00	8.00	8.00	8.00	8.00

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

### *Full-time Equivalents*

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 FTE's	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's
Chief Administrative Officer	9.00	13.00	11.00	13.00	13.00	13.00	13.00
Chief Administrative Officer	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Enterprise Risk Management	4.00	8.00	6.00	8.00	8.00	8.00	8.00

Personnel Budget - The table below presents the Chief Administrative Officer Area personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.



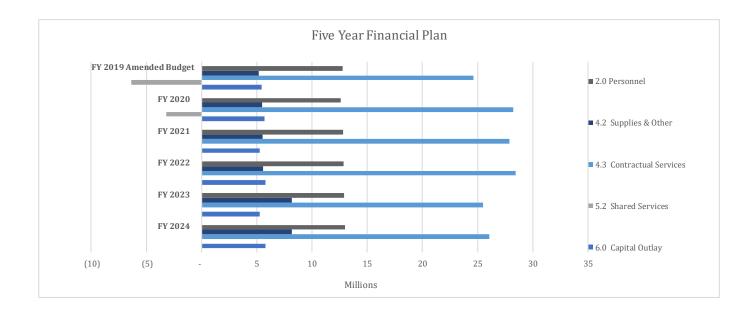
## Personnel Budget

	FY 2019			FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
	1	Approved		Requested	ı	Requested	- 1	Requested	ı	Requested	- 1	Requested
Team	Budget		Budget			Budget		Budget		Budget		Budget
Chief Administrative Officer	\$	627,634	\$	633,552	\$	636,171	\$	638,791	\$	641,410	\$	644,030
Enterprise Risk Management		780,353		599,711		778,219		781,592		784,966		788,339
Grand Total	\$	1,407,987	\$	1,233,263	\$	1,414,390	\$	1,420,383	\$	1,426,376	\$	1,432,369

#### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

		, ,		Č	,											
		FY 2019	FY 2	2020		FY 2020	FY 20	20		FY 2021		FY 2022		FY 2023		FY 2024
		Amended	Depar	tment		Dollar	Perce	nt	D	epartment	D	epartment	D	epartment	D	epartment
Expense Category	Ţ	Budget	Reque	ested	١	Variance	Varia	ıce	R	equested	R	equested	R	Requested	F	Requested
<b>■2.0 Personnel</b>	:	\$ 1,408,100	\$ 1,23	33,300	\$	(174,800)	-	12.4%	\$	1,414,400	\$	1,420,400	\$	1,426,500	\$	1,432,400
<b>■ 4.2 Supplies &amp; Other</b>		8,000	2	23,100		15,100	1	88.8%		23,300		24,500		24,700		24,800
<b>■ 4.3 Contractual Services</b>		3,828,500	3,91	11,300		307,300		8.5%		3,964,600		4,019,000		4,074,500		4,138,000
Grand Total	:	\$ 5,244,600	\$ 5,16	67,700	\$	147,600		2.9%	\$	5,402,300	\$	5,463,900	\$	5,525,700	\$	5,595,200



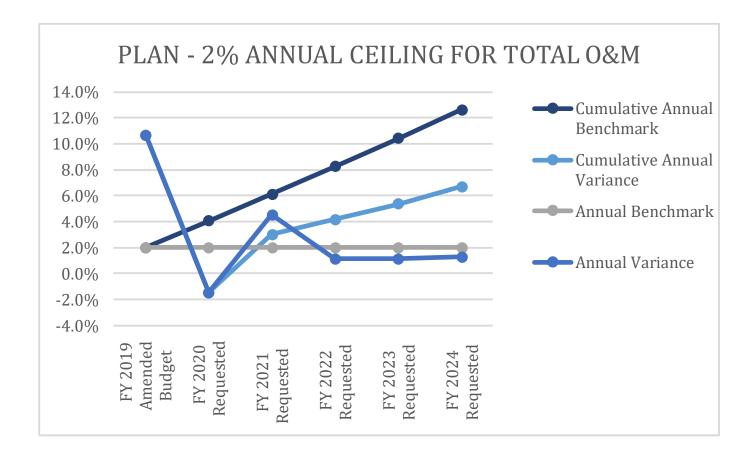


#### Five-Year Financial Plan by Team

		FY 2019		FY 2020	FY 2020	FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
		Amended	D	epartment	Dollar	Percent		Department	D	epartment	D	epartment	D	epartment
Team	Ţ	Budget	R	lequested	Variance	Variance		Requested	I	Requested	1	Requested	F	Requested
<b>⊞ Chief Administrative Officer</b>	\$	1,105,200	\$	936,600	\$ 55,900	6.30	%	\$ 944,400	\$	952,300	\$	960,400	\$	975,300
<b>■ Enterprise Risk Management and Safety</b>		1,775,400		1,819,800	44,400	2.59	%	1,998,400		2,002,900		2,006,400		2,009,800
<b>⊞ Enterprise Risk Mgt. Insurance Fund</b>		2,364,000		2,411,300	47,300	2.0	<b>%</b>	2,459,500		2,508,700		2,558,900		2,610,100
Grand Total	\$	5,244,600	\$	5,167,700	\$ 147,600	2.99	%	\$ 5,402,300	\$	5,463,900	\$	5,525,700	\$	5,595,200

### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Systems Planning Group's financial plan reflects a Five Year Overall increase of 7.0% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".



Draft 11.24.2018 Page 5 of 6



## **Effective Utility Management Measures**

"open for 1.2019 revised draft"

### **Capital Outlay**

Capital Outlay is not a component of this group.

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in alphabetical order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

Cost Center & Description	FY 2018 Amended Budget		FY 2018 ctivity thru 6.30.2018	2019 Board	FY 2020 Requested	Re	FY 2021 equested	F	FY 2022 Requested	R	FY 2023 lequested	F	FY 2024 equested
883001 - Chief Administrative Officer	\$ 561,400	\$	184,856	\$ 880,700	\$ 936,600	\$	944,400	\$	952,300	\$	960,400	\$	975,300
2.1 Salaries & Wages	461,000		147,236	495,000	500,000		500,000		500,000		500,000		500,000
Salaries & Wages	461,000		147,236	495,000	500,000		500,000		500,000		500,000		500,000
2.4 Employee Benefits	96,400		37,620	132,700	133,600		136,200		138,800		141,500		144,100
Employee Benefits	96,400		37,620	132,700	133,600		136,200		138,800		141,500		144,100
2.7 Administrative Personnel Services	-		(184,856)	-	-		-		-		-		-
Allocated: Personnel Services	-		(184,856)	-	-		-		-		-		-
4.2 Supplies & Other	4,000		-	3,000	3,000		3,100		3,200		3,300		3,300
Memberships, Licenses & Subscriptions	-		-	-	-		-		-		-		-
Office Supplies	-		-	-	-		-		-		-		-
Training and Internal Meetings	2,000		-	2,000	2,000		2,100		2,100		2,200		2,200
Travel	2,000		-	1,000	1,000		1,000		1,100		1,100		1,100
4.3 Contractual Services	-		-	250,000	300,000		305,100		310,300		315,600		327,900
Contractual Professional Services	-		-	250,000	300,000		305,100		310,300		315,600		327,900
883401 - Enterprise Risk Management and Safety	\$ 1,552,700	\$	336,785	\$ 1,775,400	\$ 1,819,800	\$	1,998,400	\$	2,002,900	\$	2,006,400	\$	2,009,800
2.1 Salaries & Wages	282,700		91,819	602,800	466,600		602,800		602,800		602,800		602,800
Salaries & Wages	282,700		91,819	602,800	466,600		602,800		602,800		602,800		602,800
2.3 Overtime	-		339	-	-		-		-		-		-
Overtime	-		339	-	-		-		-		-		-
2.4 Employee Benefits	71,600		12,540	177,600	133,100		175,400		178,800		182,200		185,500
Employee Benefits	71,600		12,540	177,600	133,100		175,400		178,800		182,200		185,500
4.2 Supplies & Other	7,000		887	5,000	20,100		20,200		21,300		21,400		21,500
Memberships, Licenses & Subscriptions	-		-	-	-		-		-		-		-
Mileage and Parking	-		267	-	-		-		-		-		-
Operating Supplies	7,000		620	5,000	5,100		5,200		6,300		6,400		6,500
Training and Internal Meetings	-		-	-	15,000		15,000		15,000		15,000		15,000
Travel	-		-	-	-		-		-		-		-
4.3 Contractual Services	1,200,000		231,539	990,000	1,200,000		1,200,000		1,200,000		1,200,000		1,200,000
Contractual Operating Services	1,200,000		231,539	990,000	1,200,000		1,200,000		1,200,000		1,200,000		1,200,000
5.1 Capital Program Allocation	(8,600	)	-	-	-		-		-		-		-
Capital Program: Salaries & Wages-Direct	(8,600	)	-	-	-		-		-		-		-
205 Capital Outlay	-		-	100,000	-		-		-		-		-
Capital Outlay over \$5k(I&E-Capitalized)	-		-	100,000	-		-		-		-		-
883411 - Enterprise Risk Mgt. Insurance Fund	\$ 2,625,000	\$	958,867	\$ 2,364,000	\$ 2,411,300	\$	2,459,500	\$	2,508,700	\$	2,558,900	\$	2,610,100
4.3 Contractual Services	2,625,000		958,867	2,364,000	2,411,300		2,459,500		2,508,700		2,558,900		2,610,100
Contractual Operating Services	2,625,000		958,867	2,364,000	2,411,300		2,459,500		2,508,700		2,558,900		2,610,100
Grand Total	\$ 4,739,100	\$	1,480,508	\$ 5,020,100	\$ 5,167,700	\$	5,402,300	\$	5,463,900	\$	5,525,700	\$	5,595,200



## **Highlights**

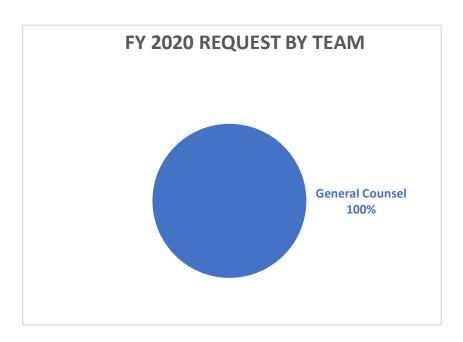
The General Counsel Area presently is leading GLWA in several strategic initiatives.

- ❖ Work collaboratively with GLWA customers to secure resolutions supporting GLWA's Industrial Pretreatment Program (IPP) Begin rollout of IPP to communities and secure resolutions from communities as required by state law.
- Create a Best Practices Manual Ensure consistent representation of the Authority in contractual, real estate, employment and litigation matters.
- ❖ **Develop GLWA templates** Modernize the contractual relationship with our vendors with GLWA contract templates.

### **Organization**

The General Counsel Area consists of a single team.

❖ General Counsel- provides legal representation, strategic guidance, counseling, advice, and support to the Great Lakes Water Authority so that it may make sound decisions and use appropriate legal processes to better provide its customers with quality compliant water services.



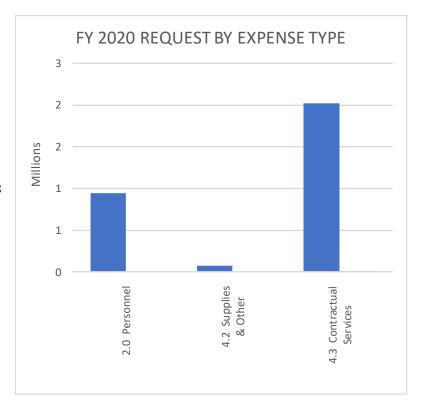


#### **Expense Categories**

There are two major categories of General Counsel expenses in the Operations and Maintenance Budget as listed below.

- Personnel Costs
- Contractual Services

Contractual Services is the highest expense category and for FY 2020 it is remaining consistent with prior and future budget years. This account contains the outside counsel for a wide range of matters including, expert witnesses, environmental, labor, contract review, land matters, non-transactional bond counsel, and other matters.



#### **Biennial Budget Request**

The biennial budget reflects an increase in FY 2020 as a result of General Counsel's emphasis to increase continuing education training for its team members.

Biennial Budget Request by Expense Category

		FY 2018		FY 2018	FY 2019		FY 2019		FY 2020	FY 2020	FY 2020		FY 2021
	1	Amended	Ac	ctivity thru	Amended	Ac	tivity thru	D	epartment	Dollar	Percent	D	epartment
Expense Categories		Budget	0	6.30.2018	Budget	10	0.31.2018	F	Requested	Variance	Variance	F	equested
2.0 Personnel	\$	743,200	\$	714,700	\$ 941,400	\$	270,149	\$	941,400	\$ -	0.0%	\$	945,200
4.2 Supplies & Other		35,400		20,100	52,200		4,743		78,400	26,200	50.2%		79,900
4.3 Contractual Services		3,990,000		4,026,600	1,783,900		518,380		2,019,100	235,200	13.2%		2,059,400
5.1 Capital Program Allocation		-		-	-		-		-	-	0.0%		-
5.2 Shared Services		(8,000)		(400)	(8,000)		-		-	8,000	-100.0%		-
Grand Total	\$	4,760,600	\$	4,761,000	\$ 2,769,500	\$	793,272	\$	3,038,900	\$ 269,400	9.7%	\$	3,084,500



#### Biennial Budget Request by Team

	FY 2018	FY 2018	FY 2019	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
	Amended	Activity thru	Amended	Activity thru	Department	Dollar	Percent	Department
Team	Budget	06.30.2018	Budget	10.31.2018	Requested	Variance	Variance	Requested
General Counsel	\$ 4,760,600	\$ 4,761,000	\$ 2,769,500	\$ 793,272	\$ 3,038,900	\$ 269,400	9.7%	\$ 3,084,500
Grand Total	\$ 4,760,600	\$ 4,761,000	\$ 2,769,500	\$ 793,272	\$ 3,038,900	\$ 269,400	9.7%	\$ 3,084,500

### **Personnel Budget**

General Counsel consists of seven positions for FY 2020, which is staying consistent with FY 2019 staffing level.

The following tables provide three alternate views of the staffing plans and budget.

*Staffing Plan* - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

## Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
General Counsel	6.00	7.00	7.00	7.00	7.00	7.00	7.00
General Counsel	6.00	7.00	7.00	7.00	7.00	7.00	7.00

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### Full-time Equivalents

	Prior Year	Current Year	Biennial	Budget		Forecast		
Team	FY 2018 FTE's	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's	
General Counsel	6.00	7.00	7.00	7.00	7.00	7.00	7.00	
General Counsel	6.00	7.00	7.00	7.00	7.00	7.00	7.00	

Personnel Budget - The table below presents the General Counsel personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages - Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.

Page 3 of 6



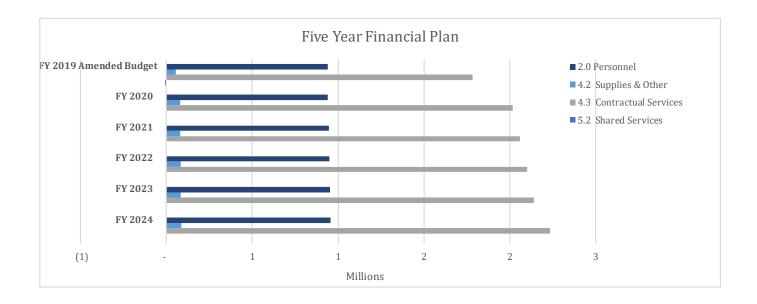
## Personnel Budget

	FY 2019 Amended	FY 2020 Department	FY 2021 Department	FY 2022 Department	FY 2023 Department	FY 2024 Department
Team	Budget	Requested	Requested	Requested	Requested	Requested
General Counsel	\$ 941,400	\$ 941,400	\$ 945,200	\$ 949,000	\$ 952,900	\$ 956,700
Grand Total	\$ 941,400	\$ 941,400	\$ 945,200	\$ 949,000	\$ 952,900	\$ 956,700

### Five Year Financial Plan

Five-Year Financial Plan by Expense Category

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	FY 2019		FY 2020		FY 2020	FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
	Amended	De	epartment		Dollar	Percent	D	epartment	D	epartment	D	epartment	D	epartment
Expense Categories	Budget	R	equested		Variance	Variance	I	Requested	F	Requested	F	Requested	F	Requested
2.0 Personnel	\$ 941,400	\$	941,400	\$	-	0.0%	\$	945,200	\$	949,000	\$	952,900	\$	956,700
4.2 Supplies & Other	52,200		78,400		26,200	50.2%		79,900		81,500		83,000		85,900
4.3 Contractual Services	1,783,900		2,019,100		235,200	13.2%		2,059,400		2,100,500		2,142,400		2,234,300
5.2 Shared Services	(8,000)		-		8,000	-100.0%		-		0		0		0
Grand Total	\$ 2,769,500	\$	3,038,900		269,400	9.7%	\$	3,084,500	\$	3,131,000	\$	3,178,300	\$	3,276,900



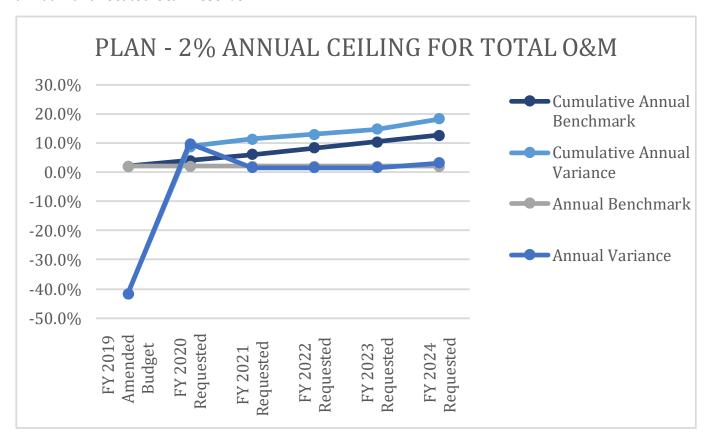
# Five-Year Financial Plan by Team

	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
General Counsel	\$ 2,769,500	\$ 3,038,900	\$ 269,400	9.7%	\$ 3,084,500	\$ 3,131,000	\$ 3,178,300	\$ 3,276,900
<b>Grand Total</b>	\$ 2,769,500	\$ 3,038,900	\$ 269,400	9.7%	\$ 3,084,500	\$ 3,131,000	\$ 3,178,300	\$ 3,276,900



Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The General Counsel Group's financial plan reflects a Five Year Overall increase of 8.3% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".





## **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft"

## **Capital Outlay**

Capital Outlay is not a component of this group.

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in alphabetical order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

	FY 2018	FY 2018						
	Amended	Activity thru	FY 2019 Board	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	<b>Adopted Budget</b>	Requested	Requested	Requested	Requested	Requested
883101 - General Counsel	\$ 4,760,600	\$ 860,609	\$ 2,994,000	\$ 3,038,900	\$ 3,084,500	\$ 3,131,000	\$ 3,178,300	\$ 3,276,900
2.1 Salaries & Wages	580,400	139,166	745,900	745,900	745,900	745,900	745,900	745,900
Salaries & Wages	580,400	139,166	745,900	745,900	745,900	745,900	745,900	745,900
2.4 Employee Benefits	162,800	35,530	195,500	195,500	199,300	203,100	207,000	210,800
Employee Benefits	162,800	35,530	195,500	195,500	199,300	203,100	207,000	210,800
4.2 Supplies & Other	35,400	7,236	52,200	78,400	79,900	81,500	83,000	85,900
Memberships, Licenses & Subscriptions	7,400	1,555	11,800	12,000	12,300	12,500	12,700	14,000
Mileage and Parking	-	198	-	-	-	-	-	-
Office Supplies	18,700	897	5,000	5,100	5,200	5,300	5,400	6,000
Operating Supplies	-	3,936	-	-	-	-	-	-
Postage	2,700	-	2,700	2,800	2,800	2,900	2,900	3,000
Training and Internal Meetings	6,600	650	32,700	43,500	44,600	45,800	47,000	47,900
Travel	-	-	-	15,000	15,000	15,000	15,000	15,000
4.3 Contractual Services	3,990,000	679,132	2,008,400	2,019,100	2,059,400	2,100,500	2,142,400	2,234,300
Contractual Operating Services	-	121	-	-	-	-	-	-
Contractual Professional Services	-	-	(224,500)	-	-	-	-	-
Legal	3,990,000	679,011	2,232,900	2,019,100	2,059,400	2,100,500	2,142,400	2,234,300
5.2 Shared Services	(8,000)	(455)	(8,000)	-	-	-	-	-
Shared Services : Salaries & Wages Reimb	(2,600)	(325)	(2,600)	-	-	-	-	-
Shared Services Reimbursement	(5,400)	-	(5,400)	-	-	-	-	-
Shared Services: Employee Benefit Reimb	-	(130)	-	-	-	-	-	-
Grand Total	\$ 4,760,600	\$ 860,609	\$ 2,994,000	\$ 3,038,900	\$ 3,084,500	\$ 3,131,000	\$ 3,178,300	\$ 3,276,900



#### **Highlights**

## The Information Technology Group is leading GLWA in several strategic initiatives.

- ❖ Shared Services Over the five-year plan, the dollar amount of shared services reimbursement from DWSD decreases to nearly zero. This is consistent with a long-tern plan consistent with standing up systems for DWSD that are integrated with City of Detroit systems. The decrease in service to DWSD shifts resources to an increased focused on growing demands for GLWA's IT services.
- ❖ **Infrastructure** Build a sustainable, secure, compliant, robust, and reliable IT infrastructure as the foundation to support GLWA's core enterprise technology needs.
- **Enterprise Asset Management** Support enterprise asset management operations and the Capital Improvement Plan using improved technology platforms.

### **Big Dollar Contract Spend**

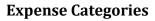
IT Centralized Service	Telecom, Managed Security & Networks 626700	Telecom, Managed Security & Networks 626700	Disaster Recovery Services 617900	Professional Services 617400	Professional Services 617400	Professional Services 617400	Professional Services 617400	Professional Services 617400	Professional Services 617400	Total
									Ceridian Human	
							_		Resources	
			Disaster			Staff	Image Soft -		Information	
Prime Consultant	AT&T	Verizon	Recovery	ERP PM Services		Augmentation	OnBase Support	DXC - WAM	Systems (HRIS)	
Contract #	CS-1689	1801674	TBD	TBD	CS-091	CS - 071	1801819	CS-119	1803978	
Contract Amount	\$ 60,000,000	\$ 500,000	TBD	TBD	\$ 955,838	\$ 2,782,960	\$ 165,513	\$ 7,000,000	\$ 3,217,779	\$ 74,622,089
Contract End Date	09/12/23	10/12/19	TBD	TBD	03/31/19	12/31/19	11/30/19	06/30/22	06/30/19	
		IT Service		IT Project	IT Enterprise		IT Enterprise	IT Business	IT Business	
Cost Center Name	Infrastructure	Delivery	Infrastructure	Management	Applications	Various	Applications	Applications	Applications	
FY 2018 Spend	\$ 10,272,962	\$ 562,000	\$ -	\$ -	\$ 333,771	\$ -	\$ -	\$ 1,896,426	\$ -	\$ 13,065,159
FY 2018 Budget	13,300,000	384,000	400,000	-	418,400	135,966	200,000	2,847,416	-	17,685,782
FY 2019 Budget	13,300,000	402,000	400,000		418,400	112,266	200,000	2,972,416	700,000	18,505,082
FY 2020 Estimate	13,400,000	420,000	400,000	333,234	720,000	298,266	200,000	3,400,000	700,000	19,871,500
FY 2021 Estimate	13,500,000	424,200	400,000	339,898	720,000	296,166	200,000	3,400,000	700,000	19,980,264
FY 2022 Estimate	13,600,000	432,700	400,000	346,696	720,000	299,306	200,000	3,400,000	700,000	20,098,702
FY 2023 Estimate	13,600,000	441,300	400,000	353,630	800,000	299,306	200,000	-	700,000	16,794,236
FY 2024 Estimate	14,704,100	450,200	-	360,703	800,000	198,000	200,000	-	700,000	17,413,003
Total	\$105,677,062	\$ 3,516,400	\$ 2,400,000	\$ 1,734,161	\$ 4,930,571	\$ 1,639,276	\$ 1,400,000	\$ 17,916,258	\$ 4,200,000	\$ 143,413,728



### **Organization**

The GLWA Information
Technology (IT) Group consists
of seven teams.

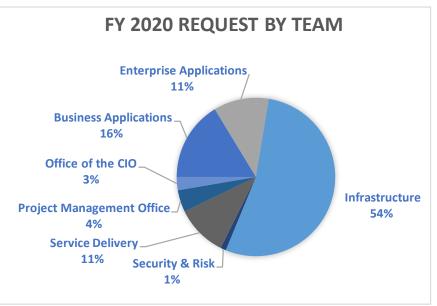
- Office of the Chief Information Officer – administration and oversight
- Project Management
   Office fosters
   collaboration and
   supports execution of
   initiatives
- Security & Risk –
   develops and deploys security measures to reduce risk
- ❖ Infrastructure manages a network that spans xx locations across xx square miles
- ❖ **Business Applications** supports systems unique to defined areas such as geographic information, financial, and work order & asset management
- Enterprise Applications supports applications common to all team members such as email, office automation, and document management
- Service Delivery provides frontline support to all team members

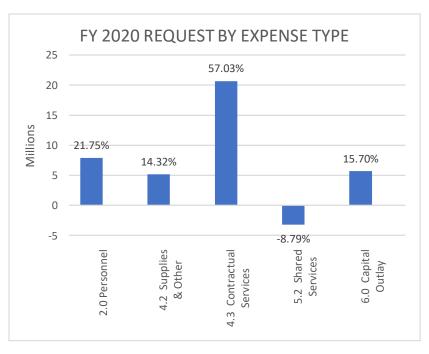


There are five major categories of IT expenses in the Operations and Maintenance Budget as listed below.

- Contractual services
- Personnel Costs
- Capital Outlay
- Supplies & Other
- Shared Services

FY 2020 is consistent with prior and future budget years as it related to expense categories except for shared services reimbursement as noted above.







### **Biennial Budget Request**

The biennial reflects an increase in FY 2020 as a result of increased IT needs. The increase in FY 2020 is due the loss of shared service reimbursements of \$3,185,800 and a further decrease in FY 2021 of \$3,176,700. While it is anticipated that the IT shared services will be eliminated at the end of FY 2020, the parties may extend or expand the shared services as opportunities arise.

### Biennial Budget Request by Expense Category

Expense Categories	¥	FY 2018 Amended Budget	FY 2018 activity thru 06.30.2018	FY 2019 Amended Budget	FY 2019 ctivity thru 10.31.2018	FY 2020 Department Requested	FY	2020 Dollar Variance	FY 202 Percer Varian	t	FY 2021 epartment Requested
. 0	71	U				-					-
2.0 Personnel	- \$	6,131,900	\$ 6,133,700	\$ 7,659,600	\$ 1,982,416	\$ 7,550,300	\$	(109,300)		1.4%	\$ 7,583,300
4.2 Supplies & Other		4,025,700	4,027,500	5,095,300	453,779	5,191,400		96,100		1.9%	5,196,600
4.3 Contractual Services		18,348,300	18,425,000	18,670,200	5,589,877	21,007,900		2,337,700	1	2.5%	20,564,200
5.1 Capital Program Allocation		-	-	-	-	-		-		n/a	-
5.2 Shared Services		(7,808,800)	(8,051,300)	(6,362,500)	(1,750,467)	(3,185,800)		3,176,700	-4	9.9%	-
6.0 Capital Outlay		3,776,500	3,787,500	5,445,200	1,616,673	5,690,500		245,300		4.5%	5,286,300
Grand Total	\$	24,473,600	\$ 24,322,400	\$ 30,507,800	\$ 7,892,278	\$ 36,254,300	\$	5,746,500	1	8.8%	\$ 38,630,400

#### Biennial Budget Request by Team

	FY 2018	FY 2018	FY 2019	FY 2019	FY 2020		FY 2020	FY 2021
	Amended	Activity thru	Amended	Activity thru	Department	FY 2020 Dollar	Percent	Department
Team	■ Budget	06.30.2018	Budget	10.31.2018	Requested	Variance	Variance	Requested
Info Technology Business Applications	5,043,100	4,980,200	6,001,100	1360523.04	5,913,900	(87,200)	-1.5%	6,408,200
Info Technology Enterprise Applications	1,075,400	1,074,900	3,193,200	367804.64	4,098,700	905,500	28.4%	4,063,700
Info Technology Infrastructure	14,352,300	14,264,300	18,357,800	5566604.09	19,432,400	1,074,600	5.9%	21,640,600
Info Technology Security & Risk	326,000	326,600	491,700	-462312.43	403,200	(88,500)	-18.0%	436,500
Info Technology Service Delivery	2,136,300	2,136,300	3,371,900	573601.14	3,807,700	435,800	12.9%	3,854,200
InfoTechnology Project Management Office	1,102,600	1,102,400	(671,400)	317457.89	1,622,600	2,294,000	-341.7%	1,634,700
Office of the Chief Information Officer	437,900	437,700	(236,500)	168599.31	975,800	1,212,300	-512.6%	592,500
Grand Total	\$ 24,473,600	\$ 24,322,400	\$ 30,507,800	\$ 7,892,278	\$ 36,254,300	\$ 5,746,500	18.8%	\$ 38,630,400

#### **Personnel Budget**

Information Technology personnel consists of 71 positions for FY 2020, which is staying consistent with FY 2019 staffing level.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.



#### Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
Information Technology	68.00	71.00	71.00	71.00	71.00	71.00	71.00
Office of CIO	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Project Management Office	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Service Delivery	12.00	15.00	15.00	15.00	15.00	15.00	15.00
Infrastructure	14.00	13.00	13.00	13.00	13.00	13.00	13.00
Business Applications	12.00	13.00	13.00	13.00	13.00	13.00	13.00
Enterprise Applications	14.00	13.00	13.00	13.00	13.00	13.00	13.00
Security & Risk	2.00	3.00	3.00	3.00	3.00	3.00	3.00

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

## Full-time Equivalents

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 FTE's	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's
Information Technology	67.75	71.00	71.00	71.00	71.00	71.00	71.00
Office of CIO	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Project Management Office	9.75	10.00	10.00	10.00	10.00	10.00	10.00
Service Delivery	12.00	15.00	15.00	15.00	15.00	15.00	15.00
Infrastructure	14.00	13.00	13.00	13.00	13.00	13.00	13.00
Business Applications	12.00	13.00	13.00	13.00	13.00	13.00	13.00
Enterprise Applications	14.00	13.00	13.00	13.00	13.00	13.00	13.00
Security & Risk	2.00	3.00	3.00	3.00	3.00	3.00	3.00

*Personnel Budget* - The table below presents the Information Technology personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.

### Personnel Budget

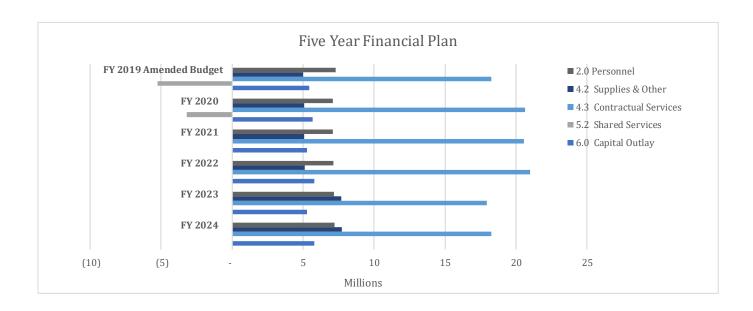
Team	ı	FY 2019 Amended Budget	FY 2020 Department Requested		FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 epartment Requested		FY 2024 epartment Requested
	<u>_</u>		•		•	•	•		•
Office of CIO	Ş	359,400	\$ 470,400	Ş	472,400	\$ 474,400	\$ 476,400	Ş	478,400
Project Management Office		1,090,300	1,273,500		1,278,700	1,284,000	1,289,200		1,294,500
Service Delivery		1,195,200	1,207,800		1,213,600	1,219,300	1,225,100		1,230,800
Infrastructure		1,300,900	1,359,000		1,365,000	1,370,900	1,376,800		1,382,800
Business Applications		1,409,600	1,473,700		1,480,000	1,486,300	1,492,600		1,498,900
Enterprise Applications		1,227,500	1,397,600		1,403,700	1,409,700	1,415,800		1,421,800
Security & Risk		260,900	368,300		369,900	371,400	372,900		374,500
Grand Total	\$	6,843,800	\$ 7,550,300	\$	7,583,300	\$ 7,616,000	\$ 7,648,800	\$	7,681,700



#### **Five Year Financial Plan**

## Five-Year Financial Plan by Expense Category

Expense Categories	¥	FY 2019 Amended Budget	Dej	FY 2020 partment equested	 2020 Dollar Variance	Pe	2020 rcent riance	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
2.0 Personnel	\$	7,659,600	\$	7,550,300	\$ (109,300)		-1.4%	\$ 7,583,300	\$ 7,616,000	\$ 7,648,800	\$ 7,681,700
4.2 Supplies & Other		5,095,300		5,191,400	96,100		1.9%	5,196,600	5,240,800	7,831,200	7,842,300
4.3 Contractual Services		18,670,200	2	1,007,900	2,337,700		12.5%	20,564,200	20,999,200	17,936,100	18,276,000
5.2 Shared Services		(6,362,500)	(	(3,185,800)	3,176,700		-49.9%	-	0	0	0
6.0 Capital Outlay		5,445,200		5,690,500	245,300		4.5%	5,286,300	5,784,600	5,273,500	5,787,400
<b>Grand Total</b>	\$	30,507,800	\$ 3	6,254,300	\$ 5,746,500		18.8%	\$ 38,630,400	\$ 39,640,600	\$ 38,689,600	\$ 39,587,400



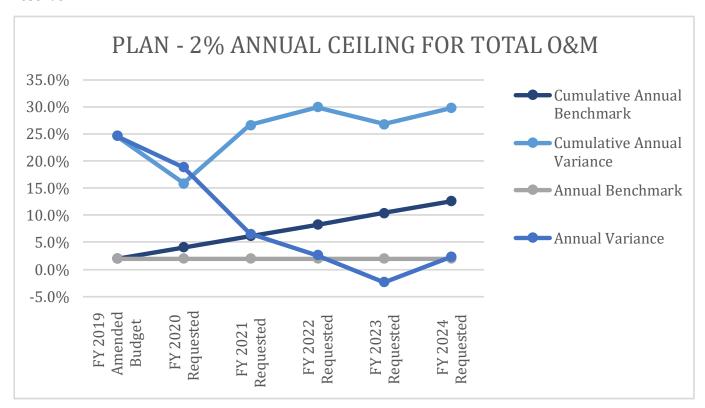
## Biennial Budget Request by Team

		FY 2019	1	FY 2020 Department	FY 2020 Dollar	FY 2020 Percent	FY 2021 Department	FY 2022 Department	1	FY 2023 Department	FY 2024 Department
Team	Ψ A	mended Budget		Requested	Variance	Variance	Requested	Requested		Requested	Requested
<b>Business Applications</b>		\$ 6,001,100	\$	5,913,900	\$ (87,200)	-1.5%	\$ 6,408,200	\$ 6,417,700	\$	5,531,100	\$ 5,438,400
<b>Enterprise Applications</b>	S	3,193,200		4,098,700	905,500	28.4%	4,063,700	4,211,100		4,251,900	4,222,600
Infrastructure		18,357,800		19,432,400	1,074,600	5.9%	21,640,600	22,431,100		22,375,700	23,318,800
Security & Risk		491,700		403,200	(88,500)	-18.0%	436,500	438,600		440,700	442,900
Service Delivery		3,371,900		3,807,700	435,800	12.9%	3,854,200	3,898,500		3,830,200	3,888,200
Project Management Of	ffic	(671,400)		1,622,600	2,294,000	-341.7%	1,634,700	1,647,200		1,659,700	1,672,400
Office of the CIO		(236,500)		975,800	1,212,300	-512.6%	592,500	596,400		600,300	604,100
Grand Total		\$ 30,507,800	\$	36,254,300	\$ 5,746,500	18.8%	\$ 38,630,400	\$ 39,640,600	\$	38,689,600	\$ 39,587,400



Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The IT financial plan reflects a Five Year Overall increase of 30% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated O&M reserve".



# **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft."

## **Capital Outlay**

IT capital outlay is funded by both the O&M budget and the I&E budget.

Capital Outlay by Asset Category



Asset Categories	FY 2020 Department Requested	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
Data/Network	\$ 2,000,034	\$ 2,000,018	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Hardware	6,656,000	6,672,860	6,691,320	1,210,466	1,229,946
Leasehold Improvements, Computers & IT, Furniture & Fixtures	2,000,000	2,000,000	2,000,000	-	-
Software	2,534,466	2,113,422	2,593,280	2,063,034	2,557,454
Grand Total	\$ 13,190,500	\$ 12,786,300	\$ 13,284,600	\$ 5,273,500	\$ 5,787,400

# Capital Outlay by Funding Source

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Department	Department	Department	Department	Department
Asset Funding Source	Requested	Requested	Requested	Requested	Requested
I&E	\$ 7,500,000	\$ 7,500,000	\$ 7,500,000	\$ -	\$ -
0&M	5,690,500	5,286,300	5,784,600	5,273,500	5,787,400
Grand Total	\$ 13,190,500	\$ 12,786,300	\$ 13,284,600	\$ 5,273,500	\$ 5,787,400

## Capital Outlay by Team

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Department	Department	Department	Department	Department
Team	Requested	Requested	Requested	Requested	Requested
Info Technology Service Delivery	\$ 1,170,100	\$ 1,187,200	\$ 1,204,500	\$ 1,112,000	\$ 1,128,900
Info Technology Infrastructure	5,741,800	5,313,800	5,788,100	3,362,500	3,859,000
Info Technology Enterprise Applications	666,100	672,300	678,500	685,000	685,000
Info Technology Business Applications	5,550,000	5,550,000	5,550,000	50,000	50,000
Info Technology Security & Risks	62,500	63,000	63,500	64,000	64,500
Grand Total	\$ 13,190,500	\$ 12,786,300	\$ 13,284,600	\$ 5,273,500	\$ 5,787,400

### **Line Item Budget and Plan**

The five-year plan with a line item expense budget begins on the next page. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



SERBERGE   S. PATRICO   S. PA	Cost Center & Description	FY 2018 Amended Budget	FY 2018 Activity thru 06.30.2018	FY 2019 Board Adopted Budget	FY 2020 Requested	FY 2021 Requested	FY 2022 Requested	FY 2023 Requested	FY 2024 Requested
2.1 Salaries & Wages					•	•			•
Salviers   Wages   Mot.500   190,000   395,000   396,2									369,200
2.2 Overtime	-								369,200
December   11.00	-		,						309,200
2.4 Employee Benefits									-
Employee Benefits   116,000   14,800   100,500   101,000   103,000   105,200   107,0									109,200
2.6 Personnel Transition Adjustment 4.2 Supplies & Other 4.2 Supplies & Other 4.2 Supplies & Other 4.3 Supplies & Other 4.3 Supplies & Other 4.3 Supplies & Other 4.3 Supplies & Other 4.4 Supplies & Other 4.5 Supplies & Other 4.5 Supplies & Other 4.5 Supplies & Other 4.6 Supplies & Other 4.5 Supplies & Other 4.5 Supplies & Other 4.6 Supplies &							-		109,200
Personnel Transition Adjustment   16,600   34,800   116,600   120,000   122,000   122,000   22,000			·						-
4.2 Supplies & Other   116,600   134,800   116,600   129,100   129,100   129,000   129,000   129,000   129,000   129,000   128,000   28,	-								
Memberships, Itemers & Subscriptions   28,600   1,700   14,400   70,000   71,400   72,800   74,300   75,800	•	116.600	34.800		118,400	120.100	122.000	123,900	125,700
Milesga and Farling	• • • • • • • • • • • • • • • • • • • •						-		28,600
Common Supples   70,000   14,400   70,000   71,400   72,800   73,800   73,800   75									
Operating Supplies		70 000		70 000	71 400	72 800	74 300	75 800	77,300
Training and Internal Meetings		, 0,000		, 0,000	, _,,,,,,	, =, = =	, ,,,,,,	, 5,555	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Travel		8.000		8.000	8.200	8.300	8.500	8.700	8,800
Tution Refund 4.3 Centractual Services Information Technology 150,400 279,500 387,000									11,000
4.3 Contractual Services   169,400   . 397,500   387,000   .   .   .   .		-			-			-	-
Contract Services-Information Technology   150,400   379,500   387,000		168,400		397.500	387.000	_	_	_	-
Telecom, Managed Security & Network Sves   18,000   (29,200)   (18,000)   (388,300)									
					337,000				
Shared Services   Salaries & Wages Reimb   (8,000   (18,600)   (388,500)   .			(29,200)		-	_	_	_	-
Shared Services: Employee Benefit Reimb   (39,970)   (3,200)   (721,500)   (721,500)   (7,200)									_
Shared Services: Employee Benefit Reimb   (7,400)   (7,1400)   (	-					_	_	_	_
Sas311 Project Management Office   \$1,102,600   \$40,1500   \$ (\$71,400)   \$1,1622,600   \$1,1647,000   \$1,6502,000   \$1,6503,000   \$1,0503,000		()			-	-	_	_	_
2.1 Salaries & Wages		\$ 1.102.600			\$ 1.622.600	\$ 1.634.700	\$ 1.647.200	\$ 1.659.700	\$ 1,672,400
Salaries & Wages								//-	1,005,300
2.4 Employee Benefits									1,005,300
Employee Benefits 223,800 83,600 233,900 268,200 273,400 276,700 283,900 286 2.5 Transition Services 230,000 - 326,700	_								289,200
2.5 Transition Services 230,000	• •								289,200
Contractual Transition Services   230,000   326,700   15,900   16,100   16,500   16,000   17,000   1									-
A2 Supplies & Other   21,600   1,600   16,000   16,000   16,000   1,600   1,									
Memberships, Licenses & Subscriptions   1,600   1,000   1,600   1,600   1,70			8 300		15 900	16 100	16 500	16 900	17,200
Mileage and Parking   Repairs & Maintenance-Software   6,000   4,200   6,000   13,200   13,700   14,000   14,300   14,700   14,000   14,300   14,700   14,000   14,300   14,700   14,000   14,300   17,700   18,000   300   800									1,700
Repairs & Maintenance-Software									
Training and Internal Meetings   13,200   1,400   13,200   13,500   13,700   14,000   14,300   1.6		6,000							
Travel					13 500	13 700	14 000	14 300	14,600
4.3 Contractual Services			,						900
Contract Services-Information Technology Contractual Operating Services . 300									360,700
Contractual Operating Services   300   -   -   -   -   -   -   -   -   -			300	_					360,700
S.2 Shared Services   Salaries & Wages Reimb   (117,700)   (18,600)   (14,700)   -   -   -   -   -   -     -	0,	_	300	_			-		-
Shared Services : Salaries & Wages Reimb   (117,700)   (18,600)   (147,700)   -   -   -   -   -   -   -				(2 110 000)					_
Shared Services: Employee Benefit Reimb									_
Shared Services: Employee Benefit Reimb   -									_
883321 - Info Technology Service Delivery         \$ 2,136,300         \$ 701,300         \$ 3,371,900         \$ 3,807,700         \$ 3,854,200         \$ 3,898,500         \$ 3,802,000         \$ 3,888           2.1 Salaries & Wages         792,800         302,900         903,900         914,50		(30,300)						_	_
2.1 Salaries & Wages   792,800   302,900   903,900   914,500   314,500   3		\$ 2.136.300			\$ 3,807,700			\$ 3,830,200	
Salaries & Wages         792,800         302,900         903,900         914,500         310,600         316         914,500         314,500         914,500         914,500         914,500         914,500         914,500         914,500								,,	914,500
2.3 Overtime									914,500
Overtime	-				514,500				514,500
2.4 Employee Benefits         296,700         125,400         291,300         293,300         299,100         304,800         310,600         316           Employee Benefits         296,700         125,400         291,300         293,300         299,100         304,800         310,600         316           4.2 Supplies & Other         1,080,900         342,900         1,163,500         1,453,400         1,474,700         1,493,100         1,528           Memberships, Licenses & Subscriptions         5,000         5,000         5,100         5,200         5,300         5,400         9           Printing         20,000         2,000         100,000         102,000         104,000         106,100         108,200         11           Repairs & Maintenance-Hardware         42,400         42,800         43,700         44,600         45,500         46,400         42           Repairs & Maintenance-Software         450,500         144,500         530,200         756,800         771,400         779,300         784,400         80           Training and Internal Meetings         56,000         61,000         61,000         62,300         63,500         64,800         7           Travel         15,000         15,000         15,000									
Employee Benefits         296,700         125,400         291,300         293,300         299,100         304,800         310,600         316           4.2 Supplies & Other         1,080,900         342,900         1,163,500         1,429,800         1,453,400         1,474,700         1,493,100         1,528           Memberships, Licenses & Subscriptions         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         5,000         102,000         104,000         106,100         108,200         110         110         102,000         104,000         106,100         108,200         110         108,200         110         102,000         104,000         106,100         108,200         110         108,200         110         108,200         110         108,200         110         108,200         110         100,000         104,000         106,100         106,100         106,100         106,100         106,100         106,100         106,100         106,100         106,100         106,100         100         100,100         100,100         100,100         100,100         100,100         100,100         100,100         100,100		206 700		201 200	202 200	200 100	204 900	210 600	316,300
4.2 Supplies & Other         1,080,900         342,900         1,163,500         1,429,800         1,453,400         1,474,700         1,493,100         1,528           Memberships, Licenses & Subscriptions         5,000         5,000         5,000         5,200         5,300         5,400         5           Printing         20,000         2,000         100,000         102,000         104,000         106,100         108,200         110           Repairs & Maintenance-Hardware         42,400         42,800         43,700         44,600         45,500         46,400         42           Repairs & Maintenance-Miscellaneous         25,500         25,800         26,100         26,400         26,400         26,400         26,400         26,400         26,400         26,400         26,400         26,400         26,400         26,400         26,400         26,400         27,70         27,70         77,400         779,300         784,400         80         77,140         779,300         784,400         80         77,140         779,300         63,500         64,800         77         44,200         42,200         42,200         42,200         42,200         42,200         42,200         42,200         42,200         42,200         42,200         15,9									316,300
Memberships, Licenses & Subscriptions         5,000         5,000         5,100         5,200         5,300         5,400         9           Printing         20,000         2,000         100,000         102,000         104,000         106,100         108,200         110           Repairs & Maintenance-Hardware         42,400         42,800         43,700         44,600         45,500         46,400         4           Repairs & Maintenance-Miscellaneous         25,500         25,800         26,100         26,400         26,400         20           Repairs & Maintenance-Software         450,500         144,500         530,200         756,800         771,400         779,300         784,400         80           Training and Internal Meetings         56,000         61,000         61,100         62,300         63,500         64,800         7           Telecom, Managed Security & Network Svcs         492,000         194,900         384,000         420,000         424,200         432,700         441,300         45           Travel         15,000         15,000         15,300         15,600         15,900         16,200         16           Tuition Refund         1,500         1,500         1,500         15,600         15,900									1,528,500
Printing         20,000         2,000         100,000         102,000         104,000         106,100         108,200         110           Repairs & Maintenance-Hardware         42,400         42,800         43,700         44,600         45,500         46,400         47           Repairs & Maintenance-Hiscellaneous         25,500         25,800         26,100         26,400         26,400         26,400         26,400         27           Repairs & Maintenance-Software         450,500         144,500         530,200         756,800         771,400         779,300         784,400         80           Training and Internal Meetings         56,000         61,000         61,000         62,300         63,500         64,800         77           Telecom, Managed Security & Network Svcs         492,000         194,900         384,000         420,000         424,200         432,700         441,300         45           Travel         15,000         15,000         15,300         15,600         15,900         16,200         16           Tuition Refund         1,500         1,500         15,300         15,600         15,900         16,200         16           Shared Services: Salaries & Wages Reimb         (473,500)         (91,500) <td< td=""><td>* *</td><td></td><td>342,500</td><td></td><td></td><td></td><td></td><td></td><td>5,500</td></td<>	* *		342,500						5,500
Repairs & Maintenance-Hardware         42,400         42,800         43,700         44,600         45,500         46,400         42,800         43,700         44,600         45,500         46,400         42,800         43,700         44,600         45,500         46,400         42,800         42,800         25,800         26,100         26,400         26,400         27,800         26,400         26,400         26,400         27,800         26,400         77,400         779,300         784,400         80         80         77,400         779,300         784,400         80         77,400         779,300         784,400         80         77,400         779,300         784,400         80         77,400         779,300         784,400         80         77,400         779,300         784,400         80         77,400         779,300         63,500         64,800         77         78,400         80         77,400         77,400         79,300         64,800         77         78,400         80         78,400         80         70         42,200         424,200         424,200         424,200         424,200         424,200         424,200         424,200         424,200         424,200         42,500         15,500         15,500         15,500			2,000						110,400
Repairs & Maintenance-Miscellaneous         25,500         25,800         26,100         26,400         26,400         20,200           Repairs & Maintenance-Software         450,500         144,500         530,200         756,800         771,400         779,300         784,400         800           Training and Internal Meetings         56,000         61,000         61,100         62,300         63,500         64,800         7           Telecom, Managed Security & Network Svcs         492,000         194,900         384,000         420,000         424,200         432,700         441,300         450           Travel         15,000         15,000         15,300         15,600         15,600         15,900         16,200         16           Tuition Refund         1,500         1,500         15,300         15,600         15,900         16,200         16           5.2 Shared Services:         (1,159,100)         (200,000)         (8,100)         - </td <td></td> <td></td> <td>2,000</td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td>47,300</td>			2,000			,			47,300
Repairs & Maintenance-Software         450,500         144,500         530,200         756,800         771,400         779,300         784,400         800           Training and Internal Meetings         56,000         61,000         61,000         62,300         63,500         64,800         73           Telecom, Managed Security & Network Svcs         492,000         194,900         384,000         420,000         424,200         432,700         441,300         450           Travel         15,000         15,000         15,300         15,600         15,900         16,200         16           Tuition Refund         1,500         (1,159,100)         (200,000)         (8,100)         -	·	42,400							27,000
Training and Internal Meetings         56,000         61,000         61,100         62,300         63,500         64,800         73           Telecom, Managed Security & Network Svcs         492,000         194,900         384,000         420,000         424,200         432,700         441,300         450           Travel         15,000         15,000         15,300         15,600         15,900         16,200         16           Tuition Refund         1,500         (1,159,100)         (200,000)         (8,100)         - <t< td=""><td></td><td>450 500</td><td>144 500</td><td></td><td></td><td></td><td></td><td></td><td>800,500</td></t<>		450 500	144 500						800,500
Telecom, Managed Security & Network Svcs         492,000         194,900         384,000         420,000         424,200         432,700         441,300         450           Travel         15,000         15,000         15,300         15,600         15,900         16,200         16           Tuition Refund         1,500         15,500         15,600         15,900         16,200         16           5.2 Shared Services         (1,159,100)         (200,000)         (8,100)         -	•		144,300						71,000
Travel         15,000         15,000         15,300         15,600         15,900         16,200         16           Tuition Refund         1,500         1,500         15,300         15,600         15,900         16,200         16           5.2 Shared Services         (1,159,100)         (200,000)         (8,100)         - </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>10/ 000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>450,200</td>	· · · · · · · · · · · · · · · · · · ·		10/ 000						450,200
Tuition Refund         1,500         (8,100)         - <td></td> <td></td> <td>154,500</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>16,600</td>			154,500						16,600
5.2 Shared Services         (1,159,100)         (200,000)         (8,100)         - <td></td> <td>13,000</td> <td>1 500</td> <td>13,000</td> <td>13,300</td> <td>13,000</td> <td>13,500</td> <td>10,200</td> <td>10,000</td>		13,000	1 500	13,000	13,300	13,000	13,500	10,200	10,000
Shared Services : Salaries & Wages Reimb     (473,500)     (91,500)     (8,100)       Shared Services Reimbursement     (496,200)     (71,900)       Shared Services: Employee Benefit Reimb     (189,400)     (36,600)       6.0 Capital Outlay     1,125,000     130,100     1,021,300     1,170,100     1,187,200     1,204,500     1,112,000     1,120,000       Capital Outlay less than \$5,000     1,100,000     111,900     800,000     816,000     832,300     849,000     865		/1 150 100\		(0.100)					_
Shared Services Reimbursement     (496,200)     (71,900)						-	-	-	-
Shared Services: Employee Benefit Reimb     (189,400)     (36,600)       6.0 Capital Outlay     1,125,000     130,100     1,021,300     1,170,100     1,187,200     1,204,500     1,112,000     1,128,700       Capital Outlay less than \$5,000     1,100,000     111,900     800,000     816,000     832,300     849,000     865									
6.0 Capital Outlay     1,125,000     130,100     1,021,300     1,170,100     1,187,200     1,204,500     1,112,000     1,128,200       Capital Outlay less than \$5,000     1,100,000     111,900     800,000     816,000     832,300     849,000     869,000									
Capital Outlay less than \$5,000 1,100,000 111,900 800,000 816,000 832,300 849,000 865					1 170 100	1 107 200	1 204 500	1 112 000	1 130 000
				1,021,300					1,128,900
Capital Outlay over \$5k(O&M-NonCapitlzd) 25,000 18,200 1,021,300 370,100 371,200 372,200 263,000 263				4 004 05-					865,900 263,000



	FY 2018	FY 2018						
	Amended	Activity thru	FY 2019 Board	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center & Description	Budget	06.30.2018	Adopted Budget	Requested	Requested	Requested	Requested	Requested
883331 - Info Technology Infrastructure	\$ 14,352,300		\$ 18,357,800	\$ 19,432,400				\$ 23,318,800
2.1 Salaries & Wages	662,500	294,000	1,007,300	1,056,400	1,056,400	1,056,400	1,056,400	1,056,400
Salaries & Wages	662,500	294,000	1,007,300	1,056,400	1,056,400	1,056,400	1,056,400	1,056,400
2.4 Employee Benefits	212,900	89,900	293,600	302,600	308,600	314,500	320,400	326,400
Employee Benefits	212,900	89,900	293,600	302,600	308,600	314,500	320,400	326,400
2.5 Transition Services	296,700	73,700	168,300	-	-	-	-	-
Contractual Transition Services	296,700	73,700	168,300					
4.2 Supplies & Other	1,844,700	336,500	2,148,900	2,167,800	2,136,300	2,150,000	2,211,900	2,178,400
Repairs & Maintenance-Hardware	1,357,700	302,000	2,021,000	1,993,000	2,003,900	2,014,900	2,026,200	2,037,800
Repairs & Maintenance-Software	487,000	34,500	89,100	135,200	92,000	93,900	143,800	97,700
Training and Internal Meetings			20,000	20,400	20,800	21,200	21,600	22,100
Travel			18,800	19,200	19,600	20,000	20,300	20,800
4.3 Contractual Services	12,370,800	5,471,608	14,234,800	14,534,900	14,825,500	15,122,100	15,424,500	15,898,600
Contract Services-Information Technology	220,800	22,500	384,800	392,500	400,300	408,300	416,500	424,800
Contractual Operating Services	150,000	71,208	550,000	558,000	569,200	580,600	592,200	769,700
Telecom, Managed Security & Network Svcs	12,000,000	5,377,900	13,300,000	13,584,400	13,856,000	14,133,200	14,415,800	14,704,100
5.2 Shared Services	(2,711,300)	(264,400)	(2,672,300)	(2,371,100)	-	-	-	-
Shared Services : Salaries & Wages Reimb	(413,200)	(62,400)	(413,200)	(532,000)	-	-	-	-
Shared Services Reimbursement	(2,298,100)	(177,000)	(2,259,100)	(1,839,100)	-	-	-	-
Shared Services: Employee Benefit Reimb		(25,000)			-	-	-	-
6.0 Capital Outlay	1,676,000	1,943,800	3,177,200	3,741,800	3,313,800	3,788,100	3,362,500	3,859,000
Capital Outlay less than \$5,000	687,000	64,600						
Capital Outlay over \$5k(O&M-NonCapitIzd)	989,000	1,879,200	3,177,200	3,741,800	3,313,800	3,788,100	3,362,500	3,859,000
883341 - Info Technology Enterprise Applications	\$ 1,075,400	\$ 831,300	\$ 3,193,200	\$ 4,098,700	\$ 4,063,700	\$ 4,211,100	\$ 4,251,900	\$ 4,222,600
2.1 Salaries & Wages	652,500	273,500	1,099,100	1,153,300	1,153,300	1,153,300	1,153,300	1,153,300
Salaries & Wages	652,500	273,500	1,099,100	1,153,300	1,153,300	1,153,300	1,153,300	1,153,300
2.4 Employee Benefits	189,100	81,500	310,500	320,400	326,700	333,000	339,300	345,600
Employee Benefits	189,100	81,500	310,500	320,400	326,700	333,000	339,300	345,600
2.5 Transition Services	-	-	182,200	-	-	-	-	-
Contractual Transition Services			182,200					
4.2 Supplies & Other	440,400	311,500	617,900	630,300	642,800	655,800	668.800	682,200
Mileage and Parking	-	200	-	-	-	-	-	-
Repairs & Maintenance-Software	439,100	307,800	563,100	574,400	585,800	597,600	609,500	621,700
Training and Internal Meetings	,	,	34,000	34,700	35,400	36,100	36,800	37,500
Travel	1.300	3,500	20,800	21,200	21,600	22,100	22,500	23,000
4.3 Contractual Services	775,400	432,200	487,300	1,328,600	1,268,600	1,390,500	1,405,500	1,356,500
Contract Services-Information Technology	775,400	432,200	487,300	1,328,600	1,268,600	1,390,500	1,405,500	1,356,500
5.2 Shared Services	(991,000)	(298,500)		-	-	-	-	- 1,330,300
Shared Services : Salaries & Wages Reimb	(224,700)	(55,000)			_			_
Shared Services Reimbursement	(676,300)	(221,500)			_	_	_	_
Shared Services: Employee Benefit Reimb	(90,000)	(22,000)			_		_	_
6.0 Capital Outlay	9,000	31,100	610,000	666,100	672,300	678,500	685,000	685,000
Capital Outlay less than \$5,000	3,000	25,900	010,000	000,100	372,300	-	-	-
Capital Outlay less trial \$5,000  Capital Outlay over \$5k(O&M-NonCapitlzd)	6,000	5,200	610,000	666,100	672,300	678,500	685,000	685,000



Cost Center & Description		FY 2018 Amended Budget		FY 2018 ctivity thru 06.30.2018		Y 2019 Board opted Budget	ı	FY 2020 Requested	ı	FY 2021 Requested	ı	FY 2022 Requested	F	FY 2023 Requested	F	FY 2024 Requested
883351 - Info Technology Business Applications	\$	5,043,100	\$	1,801,400	\$	6,001,100	\$	5,913,900	\$	6,408,200	\$	6,417,700	\$	5,531,100	\$	5,438,400
2.1 Salaries & Wages		768,400		380,300		959,400		1,089,000		1,089,000		1,089,000		1,089,000		1,089,000
Salaries & Wages		768,400		380,300		959,400		1,089,000		1,089,000		1,089,000		1,089,000		1,089,000
2.4 Employee Benefits		181,200		110,800		268,100		308,600		314,700		320,700		326,800		332,800
Employee Benefits		181,200		110,800		268,100		308,600		314,700		320,700		326,800		332,800
2.5 Transition Services		37,800		-		138,600		-		-		-		-		-
Contractual Transition Services		37,800				138,600										
4.2 Supplies & Other		950,000		132,900		1,407,300		1,245,600		1,248,500		1,250,800		3,754,100		3,756,600
Memberships, Licenses & Subscriptions						500		500		500		500		500		600
Repairs & Maintenance-Software		739,900		119,200		1,368,800		1,206,300		1,208,500		1,210,000		3,712,500		3,714,000
Training and Internal Meetings		205,100		•		20,000		20,400		20,800		21,200		21,600		22,100
Travel		5,000		13,700		18,000		18,400		18,700		19,100		19,500		19,900
4.3 Contractual Services		4,541,700		1,732,600		3,166,600		4,004,200		3,706,000		3,707,200		311,200		210,000
Contract Services-Information Technology		3,481,700		1,193,700		2,972,600		3,810,200		3,508,100		3,505,300		105,300		
Contractual Operating Services		1,060,000		538,900		194,000		194,000		197,900		201,900		205,900		210,000
5.2 Shared Services		(2,402,500)		(704,000)		(265,600)		(783,500)		-		-		-		´-
Shared Services : Salaries & Wages Reimb		(226,300)		(107,300)		(180,700)		(75,400)								
Shared Services Reimbursement		(2,176,200)		(553,800)		(84,900)		(708,100)								
Shared Services: Employee Benefit Reimb		, , ,		(42,900)		, , ,		, , ,								
6.0 Capital Outlay		966,500		148,800		326,700		50,000		50,000		50,000		50,000		50,000
Capital Outlay less than \$5,000		63,000		,		,		•		,		,				,
Capital Outlay over \$5k(O&M-NonCapitIzd)		903,500		148,800		326,700		50,000		50,000		50,000		50,000		50,000
883361 - Info Technology Security & Risk	Ś	326,000	Ś	(546,300)	Ś	491,700	Ś	403,200	Ś	436,500	Ś	438,600	Ś	440,700	Ś	442,900
2.1 Salaries & Wages		225,700	•	110,100	•	206,300	Ė	290,000	•	290,000	•	290,000	•	290,000	•	290,000
Salaries & Wages		225,700		110,100		206,300		290,000		290,000		290,000		290,000		290,000
2.4 Employee Benefits		65,500		25,100		54,600		78,300		79,900		81,400		82,900		84,500
Employee Benefits		65,500		25,100		54,600		78,300		79,900		81,400		82,900		84,500
4.2 Supplies & Other		63,500		(65,000)		3,500		3,600		3,600		3,700		3,800		3,900
Memberships, Licenses & Subscriptions		3,500		, , ,		3,500		3,600		3,600		3,700		3,800		3,900
Mileage and Parking		-		100		-		-		-		-		-		-
Repairs & Maintenance-Software		60,000		(65,500)												
Travel				400		-		-		-		-		-		_
5.2 Shared Services		(28,700)		(629,900)		(82,700)		(31,200)		-		-		-		_
Shared Services : Salaries & Wages Reimb		(20,700)		(27,100)		(82,700)		(31,200)				_		_		_
Shared Services Reimbursement		, , ,		(592,000)		. , ,		. , ,				-		-		_
Shared Services: Employee Benefit Reimb		(8,000)		(10,800)										-		-
6.0 Capital Outlay		-		13,400		310,000		62,500		63,000		63,500		64,000		64,500
Capital Outlay less than \$5,000				4,300		-		-		-		-		,		,500
Capital Outlay over \$5k(O&M-NonCapitlzd)				9.100		310,000		62,500		63,000		63,500		64,000		64,500
Grand Total	Ś	24,473,600	ċ	11,342,508	4	30,507,800		36,254,300		38,630,400		39,640,600		38,689,600		39,587,400



## **Highlights**

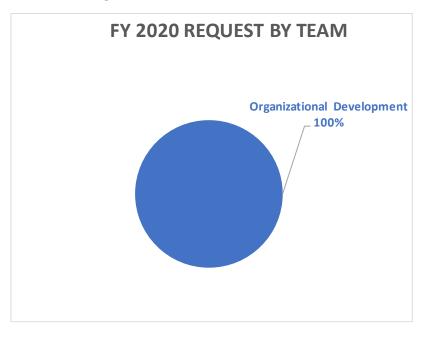
The Organization Development Area presently is leading GLWA in several strategic initiatives.

- **❖** Apprentice Program is adding a new program. The first class will be graduating from their program in 2020.
- •Launch One Water Institute In 2020 the OWI will provide new, expanded and diverse training opportunities to team members, leadership team members, as well as Member Partners.
- \* Review and update the GLWA handbook, "The Way We Work".

#### **Organization**

The Organizational Development Area consists of a single team.

❖ Organizational Development (OD) – provides recruitment, retention, training, workplace policies, assistance, guidance, benefit coordination, and quality assurance support services to the GLWA and its employees. OD provides opportunities for employees to develop and optimize their talent and deployment of their talent within the organization to support a motivated integrated workforce team that effectively delivers quality,



compliant water services to GLWA customers.



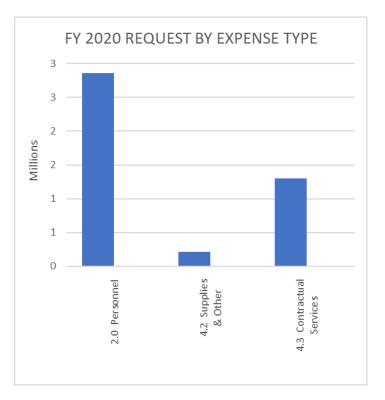
### **Expense Categories**

There are three major categories of Organizational Development expenses in the Operations and Maintenance Budget as listed below.

- Personnel Costs
- Supplies & Other
- Contractual Services

Personnel Costs is the highest expense category for OD. With the launch of the One Water Institute OD will be adding an additional three FTE's in the training area to provide diverse training opportunities throughout GLWA.

Contractual Services is the second highest expense category which includes the contracts for One Water Institute training specialists and online facilitation services.



### **Biennial Budget Request**

The biennial budget reflects an increase in FY 2020 as a result of Organizational Development's launching the new One Water Institute.

Biennial Budget Request by Expense Category

		FY 2018		FY 2018	FY 2019		FY 2019		FY 2020	FY 2020	FY 2	020		FY 2021
		Amended	A	ctivity thru	Amended	Ac	tivity thru	D	epartment	Dollar	Pero	ent	D	epartment
Expense Categories	JT.	Budget	0	06.30.2018	Budget	10	0.31.2018	I	Requested	Variance	Varia	ance	R	Requested
2.0 Personnel	\$	2,069,300	\$	2,137,700	\$ 2,763,100	\$	798,398	\$	2,856,100	\$ 93,000		3.4%	\$	2,869,100
4.2 Supplies & Other		56,000		58,700	26,500		45,527		210,300	183,800	(	693.6%		217,700
4.3 Contractual Services		496,700		415,600	350,000		63,642		1,300,000	950,000		271.4%		1,315,600
5.1 Capital Program Allocation		-		-	-		-		-	-		n/a		-
5.2 Shared Services		(6,700)		3,300	(6,700)		(8,566)		-	6,700	-:	100.0%		-
Grand Total	\$	2,615,300	\$	2,615,300	\$ 3,132,900	\$	899,000	\$	4,366,400	\$ 1,233,500		39.4%	\$	4,402,400



#### Biennial Budget Request by Team

	FY 2018	FY 2018	FY 2019	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
	Amended	Activity thru	Amended	Activity thru	Department	Dollar	Percent	Department
Team	<b>,</b> ▼ Budget	06.30.2018	Budget	10.31.2018	Requested	Variance	Variance	Requested
Organizational Development	\$ 2,615,300	\$ 2,615,300	\$ 3,132,900	\$ 899,000	\$ 4,366,400	\$ 1,233,500	39.4%	\$ 4,402,400
Grand Total	\$ 2,615,300	\$ 2,615,300	\$ 3,132,900	\$ 899,000	\$ 4,366,400	\$ 1,233,500	39.4%	\$ 4,402,400

#### **Personnel Budget**

Organizational Development personnel consists of 31 positions for FY 2020, three-staffing positions increase from FY 2019. The increase in staffing is to support the launch of the One Water Institute. Organizational Development will add two training specialists and one office support specialist in first quarter of FY 2020.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

#### Staffing Plan – Number of Positions

	Prior '	Years	Current Year	Biennial	Budget		Forecast	
	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	Staffing Plan							
Organizational Development	21.00	28.00	28.00	31.00	31.00	31.00	31.00	31.00
Organizational Development	21.00	28.00	28.00	31.00	31.00	31.00	31.00	31.00

Full-time Equivalents - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### Full-time Equivalents

	Prior Y	ears/	Current Year	Biennial	Budget	·	Forecast	
	FY 2017	FY 2018	FY 2019 Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Cost Center	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's	FTE's
Organizational Development	21.00	28.00	28.00	31.00	31.00	31.00	31.00	31.00
Organizational Development	21.00	28.00	28.00	31.00	31.00	31.00	31.00	31.00



*Personnel Budget* - The table below presents the Organizational Development personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.

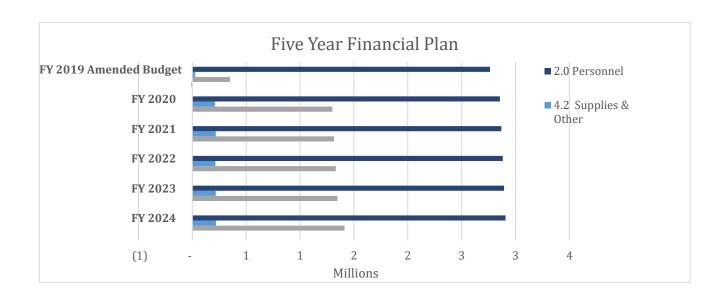
## Personnel Budget

	Curr	ent Year		Biennial	Bu	dget			Fo	recast			
	F	Y 2019		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024	
	Ар	Approved I		Requested		Requested		equested	R	equested	R	equested	
Cost Center	В	udget	Budget		Budget		Budget			Budget		Budget	
Organizational Development	\$ 2	2,763,100	\$	2,856,100	\$	2,869,100	\$	2,882,100	\$	2,895,000	\$	2,908,000	
Organizational Development	2	2,763,100		2,856,100		2,869,100		2,882,100		2,895,000		2,908,000	

#### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

		_	•					
	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Department	Dollar	Percent	Department	Department	Department	Department
Expense Categories	<b>,▼</b> Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
2.0 Personnel	\$ 2,763,100	\$ 2,856,100	\$ 93,000	3.4%	\$ 2,869,100	\$ 2,882,100	\$ 2,895,000	\$ 2,908,000
4.2 Supplies & Other	26,500	210,300	183,800	693.6%	217,700	214,600	217,000	219,100
4.3 Contractual Services	350,000	1,300,000	950,000	271.4%	1,315,600	1,331,500	1,347,700	1,413,000
5.2 Shared Services	(6,700)	-	6,700	-100.0%	-	0	0	0
Grand Total	\$ 3,132,900	\$ 4.366,400	\$ 1.233.500	39.4%	\$ 4.402.400	\$ 4.428.200	\$ 4.459.700	\$ 4.540.100





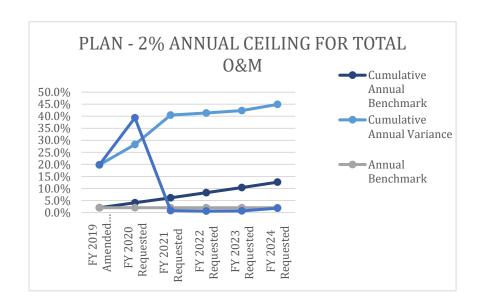
#### Five-Year Financial Plan by Team

	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
Organizational Development	\$ 3,132,900	\$ 4,366,400	\$ 1,233,500	39.4%	\$ 4,402,400	\$ 4,428,200	\$ 4,459,700	\$ 4,540,100
Grand Total	\$ 3,132,900	\$ 4,366,400	\$ 1,233,500	39.4%	\$ 4,402,400	\$ 4,428,200	\$ 4,459,700	\$ 4,540,100

#### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Organizational Development Group's financial plan reflects a Five Year Overall increase of 15.0% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated O&M reserve".

This increase is not unexpected given the extensive training the One Water Institute will provide to GLWA as whole. While there is an increased expense in the short-term, it is believed that the implementation of the One Water Institute will make GLWA a leader in the industry.



#### **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft."



## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. The expenses are listed in alphabetical order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

		FY 2018 Amended	Δ	FY 2018 tivity thru		Y 2019 Board Adopted		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
Cost Center & Expense Category	•	Budget		6.30.2018		Budget		Requested		Requested		Requested		Requested	R	equested
883201 - Organizational Development	Ś	3,455,100	Ś	745,446	Ś	3,132,900		3,467,700		3,488,900	Ś	3,510,200	Ś	3,531,600	Ś	3,602,400
2.1 Salaries & Wages	Ť	1,624,200	Ė	1,688,800	Ė	2,143,800		2,194,100		2,194,100	Ė	2,194,100	Ė	2,194,100	•	2,194,100
Salaries & Wages		1,624,200		1,688,800		2,143,800		2,194,100		2,194,100		2,194,100		2,194,100		2,194,100
2.3 Overtime		-		4,100		-		-		-		-		-		-
Overtime		-		4,100		-		-		-		-		-		-
2.4 Employee Benefits		445,100		444,800		619,300		662,000		675,000		688,000		700,900		713,900
Employee Benefits		445,100		444,800		619,300		662,000		675,000		688,000		700,900		713,900
4.2 Supplies & Other		56,000		62,800		26,500	_	210,300	7	217,700		214,600		217,000		219,100
Memberships, Licenses & Subscriptions		4,000		1,600		1,500		2,500		2,600		2,600		2,600		2,700
Mileage and Parking		-		1,800		-		-		-		-		-		-
Office Supplies		10,000		23,100				24,500		24,700		25,000		25,300		25,500
Operating Supplies				1,800				39,000		39,400		39,800		40,200		40,600
Postage		2,000		-		-		-		-		-		-		-
Printing		10,000		4,600		5,000		20,000		25,400		20,400		20,600		20,800
Training and Internal Meetings		20,000		23,900		20,000		60,500		61,100		61,700		62,400		63,000
Travel		-		4,800		-		5,000		5,100		5,100		5,200		5,200
Tuition Refund		10,000		1,200				12,000		12,100		12,200		12,400		12,500
Advertising		-		-		-		46,800		47,300		47,800		48,300		48,800
4.3 Contractual Services		496,700		415,600		350,000		1,300,000		1,315,600		1,331,500		1,347,700		1,413,000
Contractual Operating Services		496,700		415,600		350,000		1,300,000		1,315,600		1,331,500		1,347,700		1,413,000
5.2 Shared Services		(6,700)		3,300		(6,700)		-		-		-		-		-
Shared Services Reimbursement		(6,700)		3,300		(6,700)				-		-		- 1		-
205 Capital Outlay				-		-		-		-		-		-		-
Capital Outlay over \$5k(I&E-Capitalized)				-		-				-		-		- 1		-
Grand Total	\$	2,615,300	\$	2,615,300	\$	3,132,900	\$	4,366,400	\$	4,402,400	\$	4,428,200	\$	4,459,700	\$	4,540,100



### **Organization**

The Board of Directors is composed of six voting members. Two members are residents of the City of Detroit and are appointed by the Mayor of the city. The counties of Wayne, Oakland, and Macomb each appoint one member who is a resident of the county from which appointed. The Governor of the state of Michigan appoints one member who is a resident of an area served by GLWA that is

outside of the three counties.

**Board of Directors** –is a governing body that brings together representatives from the surrounding counties to set policies that help GLWA execute its mission and vision in the long-term to ensure GLWA is a provider of choice for water and wastewater services in Southeast Michigan.

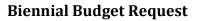


### **Expense Categories**

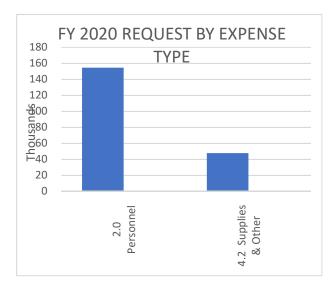
The primary cost driver in the Board of Directors' area is Salaries, Wages and Benefits which is the category in which the Board's stipends are recorded. Budget to actual variances are recognized when a Board member opts out of receiving the monthly stipend.

Other smaller, but significant expenditures are captured in the following areas:

- Memberships, Licenses & Subscriptions
- Travel
- Training & Internal Meetings



The biennial budget reflects an increase in FY 2020 which aligns with the entity-wide ceiling goal of 2% for Operations & Maintenance.





## Biennial Budget Request by Expense Category

					FY 2019		FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
		FY 2018 Amended	FY	2018 Activity	Amended	A	ctivity thru	Department	Dollar	Percent	Department
<b>Expense Categories</b>	"T	Budget	thr	u 06.30.2018	Budget	1	0.31.2018	Requested	Variance	Variance	Requested
2.0 Personnel		126,000	\$	126,000	\$151,500	\$	33,600	\$ 154,500	\$ 3,000	2.0%	\$ 157,600
4.2 Supplies & Other		3,000		3,100	47,000		1,088	47,900	900	1.9%	48,900
<b>Grand Total</b>		129,000	\$	129,100	\$198,500	\$	34,688	\$ 202,400	\$ 3,900	2.0%	\$ 206,500

## Biennial Budget Request by Team

				FY 2018	F	Y 2019	F	Y 2019		FY 2020	F	Y 2020	FY 2020		FY 2021
	F	Y 2018 Amended	Ac	tivity thru	Aı	mended	Act	ivity thru	D	epartment	E	ollar	Percent	De	epartment
Team IT		Budget	06	5.30.2018	F	Budget	10	31.2018	F	Requested	Va	riance	Variance	R	equested
Board of Directors	\$	129,000	\$	129,100	\$	198,500	\$	34,688	\$	202,400.0	\$	3,900	2.0%	\$	206,500
Grand Total	\$	129,000	\$	129,100	\$1	198,500	\$	34,688	\$	202,400	\$	3,900	2.0%	\$	206,500

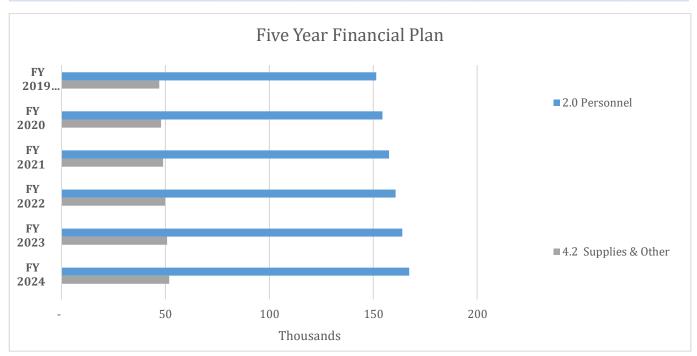
## **Personnel Budget**

The Board of Directors' Area is not reported in the GLWA Staffing Plan and Full-time Equivalents tables.

#### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

			FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	FY	2019 Amended	Department	Dollar	Percent	Department	Department	Department	Department
Expense Categories	Ţ	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
Personnel	\$	151,500	\$ 154,500	\$ 3,000	2.0%	\$ 157,600	\$ 160,800	\$ 164,000	\$ 167,300
4.2 Supplies & Other		47,000	47,900	900	1.9%	48,900	49,800	50,800	51,800
Grand Total	\$	198,500	\$ 202,400	\$ 3,900	2.0%	\$ 206,500	\$ 210,600	\$ 214,800	\$ 219,100



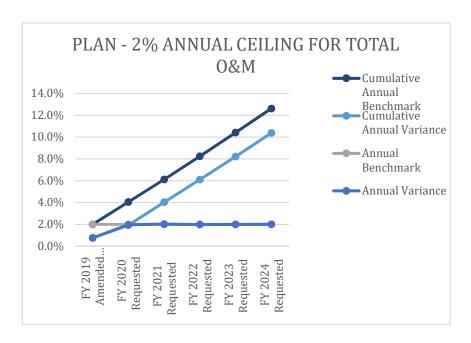


#### Five-Year Financial Plan by Team

		FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	FY 2019 Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team 🛂	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
Board of Directors	\$ 198,500	\$ 202,400	\$ 3,900	2.0%	\$ 206,500	\$ 210,600	\$ 214,800	\$ 219,100
<b>Grand Total</b>	\$ 198,500	\$ 202,400	\$ 3,900	2.0%	\$ 206,500	\$ 210,600	\$ 214,800	\$ 219,100

### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Board of Directors' financial plan reflects a Five Year Overall increase of 10.4% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment).



### **Effective Utility Management Measures**

Open for 1.2019 revised draft

## **Capital Outlay**

Capital Outlay is not a component of the Board of Directors' Area.



## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget is shown below. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.

# **Line Item Budget and Financial Plan**

		FY 2018 Amended	FY 2018 Activity	FY 2019 Board	FY 2020 Department	FY 2021 Department	FY 2022 Department	FY 2023 Department	FY 2024 Department
Expense Category	ΨĪ	Budget	thru 06.30.2018	Adopted Budget	Requested	Requested	Requested	Requested	Requested
881151 - Board of Directors		129,000 \$	129,100	\$ 198,500	\$ 202,400	\$ 206,500 \$	210,600	\$ 214,800 \$	219,100
2.1 Salaries & Wages		126,000	126,000	151,500	154,500	157,600	160,800	164,000	167,300
4.2 Supplies & Other		3,000	3,100	47,000	47,900	48,900	49,800	50,800	51,800
Inspection and Permit Fees		-	-	7,000	7,100	7,300	7,400	7,600	7,700
Memberships, Licenses & Subscriptions		-	-	10,000	10,200	10,400	10,600	10,800	11,000
Office Supplies		12	12	5,000	5,100	5,200	5,300	5,400	5,500
Training and Internal Meetings			-	10,000	10,200	10,400	10,600	10,800	11,000
Travel		3,000	3,100	15,000	15,300	15,600	15,900	16,200	16,600



### **Highlights**

In conjunction with the GLWA Board, the Chief Executive Officer's initiatives established for FY 2019 span multiple years and speak to the values that are foundational to the establishment of GLWA.

- Environmental Regulatory Compliance
- Financial Resiliency and Charge Equity and Stability
- Capital and Operational Utility Optimization
- **❖** Member Partner Engagement and Satisfaction
- GLWA Team Member Support and Retention
- **❖** GLWA 4% Promise to contain revenue requirement

#### **Organization**

Through the leadership of the Chief Executive Officer, GLWA, through its team members and in conjunction with its Board and Member Partners, strives to achieve its mission and vison.

*OUR MISSION*: To exceed our customers' expectations by utilizing best practices in the treatment and transmission of water and wastewater, while promoting healthy communities and economic growth.

*OUR VISION*: Through regional collaboration, GLWA strives to be the provider of choice, dedicated to efficiently delivering the nation's best water and sewer services in partnership with our customers.

Chief Executive Officer – Responsible the day-to-day supervision and management of the affairs of the utility, including establishing and delineating organizational goals and objectives which further GLWA's mission and values.



for

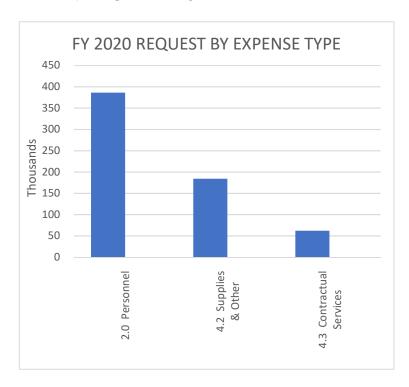


### **Expense Categories**

The Chief Executive Officer's Area consists of three major expense categories:

- Personnel
- Supplies & Other
- Contractual Services

Based upon the nature of this service area, the highest category of expense is salaries. The second highest, Supplies & Other, provides for training and organizational memberships.



### **Biennial Budget Request**

The biennial budget reflects an increase in FY 2020 which is in close alignment with the entity-wide ceiling goal of 2.0% for Operations & Maintenance.

#### Biennial Budget Request by Expense Category

									FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
		FY 2018	Amended	FY 2	2018 Activity		FY 2019	A	ctivity thru	Department	Dollar	Percent	Department
Expense Categories	T.	Bu	dget	thru	106.30.2018	Am	ended Budget	1	0.31.2018	Requested	Variance	Variance	Requested
2.0 Personnel		\$	356,900	\$	357,300	\$	377,100	\$	119,607	\$ 386,400	\$ 9,300	2.5%	\$ 387,800
4.2 Supplies & Other			138,100		138,300		178,600		56,970	184,300	5,700	3.2%	188,100
4.3 Contractual Services			-				60,800		-	62,000	1,200	2.0%	63,400
6.0 Capital Outlay			6,000		5,500		-		•	-	-	0.0%	-
Grand Total		\$	501,000	\$	501,100	\$	616,500	\$	176,577	\$ 632,700	\$16,200	2.6%	\$ 639,300

## Biennial Budget Request by Team

				FY 2018	F	Y 2019		FY 2019		FY 2020	FY 2020	FY 2020		FY 2021
	F	Y 2018 Amended	Ac	tivity thru	Ar	nended	Ac	tivity thru	De	partment	Dollar	Percent	De	epartment
Team IT		Budget	06	5.30.2018	E	Budget	10	.31.2018	R	equested	Variance	Variance	R	equested
Chief Executive Officer	\$	501,000	\$	501,100	\$	616,500	\$	176,577	\$	632,700	\$ 16,200	2.6%	\$	639,300
Grand Total	\$	501,000	\$	501,100	\$6	516,500	\$	176,577	\$	632,700	\$16,200	2.6%	\$	639,300



### **Personnel Budget**

The staffing plan provides for the Chief Executive Officer and administrative support. This is consistent with the staffing plans of prior years.

The following tables provides three alternate views of the staffing plans and budget.

*Staffing Plan* – the table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

#### Staffing Plan - Number of Positions

	Prior Year	Current Year	Biennia	Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
Chief Executive Officer	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Chief Executive Officer	2.00	2.00	2.00	2.00	2.00	2.00	2.00

*Full Time Equivalents* – the table below presents, "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### Full Time Equivalents

	Prior Year	Currrent Year	Biennial	Budget		Forecast	
Team	FY 2018 Approved FTEs	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's
Chief Executive Officer	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Chief Executive Officer	2.00	2.00	2.00	2.00	2.00	2.00	2.00

*Personnel Budget* - the table below presents the Chief Executive Officer's personnel budget which consists of the following expense categories: Salaries & Wages and Employee Benefits.

#### Personnel Budget

				FY 2020		FY 2021	1	FY 2022		FY 2023	1	FY 2024
	1	FY 2019	De	partment	De	partment	De	partment	De	partment	De	partment
Team	-▼ Amer	mended Budget		Requested		equested	R	equested	R	equested	Re	equested
Chief Executive Officer	\$	377,100	\$	386,400	\$	387,800	\$	389,300	\$	390,700	\$	392,200
<b>Grand Total</b>	\$	377,100	\$	386,400	\$	387,800	\$	389,300	\$	390,700	\$	392,200

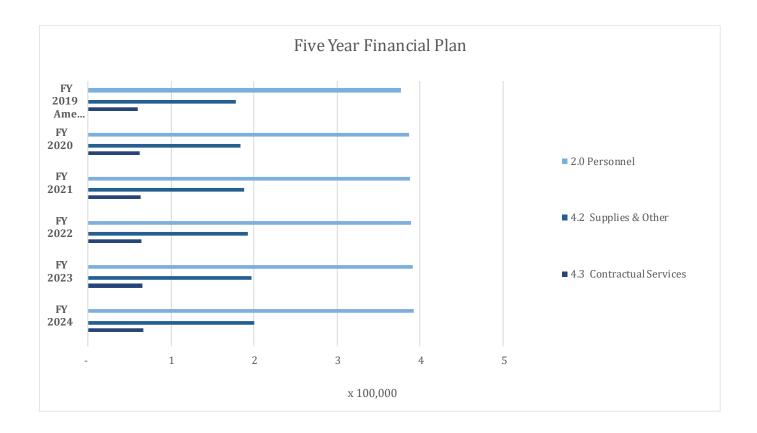
Draft 12.20.2018 Page 3 of 6



#### **Five Year Financial Plan**

## Five-Year Financial Plan by Expense Category

	FY	2019 Amended		FY 2020 epartment	_	FY 2020 Dollar	FY 2020 Percent		FY 2021 epartment		FY 2022 epartment		FY 2023 partment		FY 2024 epartment
Expense Categories	T	Budget	R	equested	V	ariance	Variance	R	equested	R	equested	R	equested	R	equested
Personnel	\$	377,100	\$	386,400	\$	9,300	2.5%	\$	387,800	\$	389,300	\$	390,700	\$	392,200
4.2 Supplies & Other		178,600		184,300		5,700	3.2%		188,100		192,700		196,600		200,500
4.3 Contractual Services		60,800		62,000		1,200	2.0%		63,400		64,600		65,800		67,200
Grand Total	\$	616,500	\$	632,700	\$	16,200	2.6%	\$	639,300	\$	646,600	\$	653,100	\$	659,900



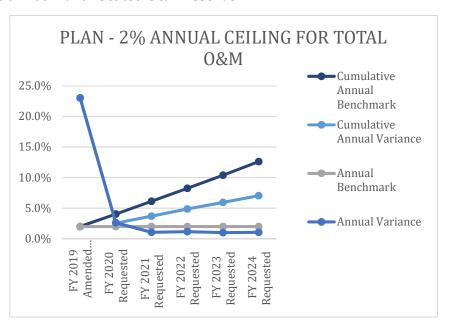
## Five-Year Financial Plan by Team

		FY 2020	FY 2020	FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
	FY 2019 Amended	Department	Dollar	Percent	De	partment	De	partment	De	epartment	De	epartment
Team	Budget	Requested	Variance	Variance	R	equested	R	equested	R	equested	R	equested
Chief Executive Officer	\$ 616,500	632,700	16,200	2.6%	\$	639,300	\$	646,600	\$	653,100	\$	659,900
<b>Grand Total</b>	\$ 616,500	\$ 632,700	\$16,200	2.6%	\$	639,300	\$	646,600	\$	653,100	\$	659,900



#### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Chief Executive Officer's financial plan reflects a Five Year Overall increase of 7.0% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments is included in the annual "unallocated O&M reserve".



#### **Effective Utility Management Measures**

Open for 1.2019 revised draft

#### **Capital Outlay**

Capital Outlay is not a component of the Chief Executive Officer Area.

#### **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget is shown below. The expenses are listed in alphabetical order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



# Line Item Budget and Financial Plan

	Sum of FY 2018	FY 2018 Activity	FY 2019 Board	FY 2020 Department		FY 2022 Department	FY 2023 Department	FY 2024 Department
Expense Category -1	Amended Budget	thru 06.30.2018	Adopted Budget	Requested	Requested	Requested	Requested	Requested
881001 - Chief Executive Officer	\$ 501,000	\$ 501,100	\$ 616,500	\$ 632,700	\$ 639,300	\$ 646,600	\$ 653,100	\$ 659,900
2.1 Salaries & Wages	313,000	312,900	304,500	311,100	311,100	311,100	311,100	311,100
2.4 Employee Benefits	43,900	44,400	72,600	75,300	76,700	78,200	79,600	81,100
4.2 Supplies & Other	138,100	138,300	178,600	184,300	188,100	192,700	196,600	200,500
Memberships, Licenses & Subsc	75,100	75,700	101,100	103,100	105,200	107,300	109,400	111,600
Mileage and Parking	42,500	42,100	45,200	48,200	49,200	51,100	52,200	53,200
Miscellaneous Expense	500	100	-	-	-	-		-
Office Supplies	7,500	7,300	10,100	10,300	10,500	10,700	10,900	11,200
Training and Internal Meetings	4,500	4,900	7,100	7,200	7,400	7,500	7,700	7,800
Travel	8,000	8,200	15,100	15,500	15,800	16,100	16,400	16,700
4.3 Contractual Services	-	-	60,800	62,000	63,400	64,600	65,800	67,200
Contractual Professional Service	-	-	30,400	31,000	31,700	32,300	32,900	33,600
Legal	-	-	30,400	31,000	31,700	32,300	32,900	33,600
6.0 Capital Outlay	6,000	5,500	-	-	-	-	(=)	_



### **Highlights**

The Security and Integrity Area presently is leading GLWA in several strategic initiatives.

- **Section** Establishment of a Canine Bomb Dog program.
- **Section** Establishment of a Drone surveillance/patrol program.
- **Solution** Enhancement of the protective fencing for the Clor/De-Clor facility.
- **Completing the Business Continuity Planning (COOP).**
- **❖** Completing the HazMat Units Firefighter #1 & #2 certifications.

#### **Organization**

The Security and Integrity Area consists of two teams.

- \* Security and Integrity provide high quality, professional security operations and technical intelligence for the organization and its valued customers throughout Michigan.
- HazMat in-house delivery service within the Security & Integrity Group who perform immediate response to all Level (1) Hazmat calls on the



property of Water Resource Recovery Facility (WRRF). This team provides three mains services; immediate response to all HazMat discharges on WRRFP, provide the same high professional security operations for DMT and provide confined space rescue standby for GLWA employees at WRRF.

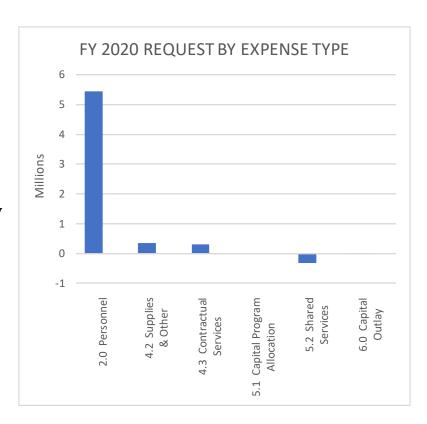


### **Expense Categories**

There are three major categories of Security and Integrity expenses in the Operations and Maintenance Budget as listed below.

- Personnel Costs
- Supplies & Other
- Contractual Services

Personnel is the highest expense category for the Security and Integrity Area. In FY 2020 one additional security officer will be added in the first quarter to Security and two hazmat security specialists will be added to HazMat to support the key initiatives listed above.



#### **Biennial Budget Request**

The biennial budget reflects a decrease in FY 2020 as a result of the initial start-up costs to establish HazMat are no longer required.

Biennial Budget Request by Expense Category

		FY 2018		FY 2018	FY 2019		FY 2019		FY 2020	FY 2020	FY 2020		FY 2021
		Amended	Ac	ctivity thru	Amended	A	ctivity thru	D	epartment	Dollar	Percent	D	epartment
<b>Expense Categories</b>	<b>,</b> T	Budget	0	6.30.2018	Budget	1	10.31.2018	I	Requested	Variance	Variance	F	Requested
2.0 Personnel	\$	4,978,700	\$	4,980,100	\$ 4,991,700	\$	1,790,559	\$	5,431,500	\$ 439,800	8.8%	\$	5,459,000
4.2 Supplies & Other		250,700		251,500	883,300		185,366		353,000	(530,300)	-60.0%		358,400
4.3 Contractual Services		307,500		307,600	307,900		75,010		314,100	6,200	2.0%		320,300
5.1 Capital Program Allocation		-		-	(23,400)		-		-	23,400	-100.0%		-
5.2 Shared Services		(585,500)		(585,500)	(284,500)		-		(325,000)	(40,500)	14.2%		(331,500)
6.0 Capital Outlay		-		-	25,000		-		25,500	500	2.0%		105,800
Grand Total	\$	4,951,400	\$	4,953,700	\$ 5,900,000	\$	2,050,935	\$	5,799,100	\$ (100,900)	-1.7%	\$	5,912,000



#### Biennial Budget Request by Team

		FY 2018		FY 2018	FY 2019		FY 2019		FY 2020	FY 2020	FY 20	20		FY 2021
		Amended	A	ctivity thru	Amended	A	ctivity thru	D	epartment	Dollar	Perce	nt	D	epartment
Team	r	Budget	0	6.30.2018	Budget	1	0.31.2018	]	Requested	Variance	Variar	ice	1	Requested
Chief Security & Integrity Officer	\$	4,951,400	\$	4,953,700	\$ 5,900,000	\$	2,050,935	\$	5,799,100	\$ (100,900)		-1.7%	\$	5,912,000
HazMat		402,800		402,700	1,347,200		571147.23		1,545,500	198,300		14.7%		1,622,300
Security and Integrity		4,548,600		4,551,000	4,552,800		1479787.78		4,253,600	(299,200)		-6.6%		4,289,700
Grand Total	\$	4,951,400	\$	4,953,700	\$ 5,900,000	\$	2,050,935	\$	5,799,100	\$ (100,900)		-1.7%	\$	5,912,000

### **Personnel Budget**

The Security and Integrity Area consists of 79 positions in FY 2020. In first quarter of FY 2020 one additional security officer will be added in the first quarter to Security and two hazmat security specialists will be added to HazMat to support their key initiatives.

The following tables provide three alternate views of the staffing plans and budget.

Staffing Plan - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

#### Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
Security and Integrity Area	89.00	76.00	79.00	79.00	79.00	79.00	79.00
Security	89.00	59.00	60.00	60.00	60.00	60.00	60.00
HazMat	0.00	17.00	19.00	19.00	19.00	19.00	19.00

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

#### *Full-time Equivalents*

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 FTE's	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's
Security and Integrity Area	82.00	88.50	75.50	79.00	79.00	79.00	79.00
Security	82.00	88.50	58.50	60.00	60.00	60.00	60.00
HazMat	0.00	0.00	17.00	19.00	19.00	19.00	19.00

*Personnel Budget* - The table below presents the Security & Integrity personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.



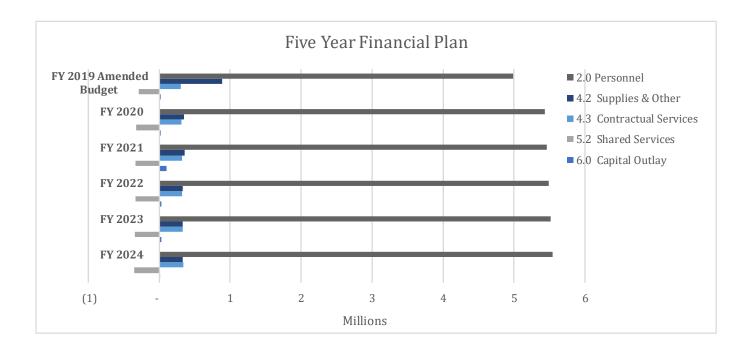
## Personnel Budget

	F	FY 2019		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
	Ar	Amended		Department	D	epartment	D	epartment	D	epartment	D	epartment
Team	E	Budget		Requested		Requested	F	Requested	R	lequested	R	Requested
Security	\$	3,820,700	\$	3,986,900	\$	4,007,400	\$	4,027,800	\$	4,048,200	\$	4,068,700
HazMat		1,171,000		1,444,600		1,451,600		1,458,600		1,465,700		1,472,700
Grand Total	\$	\$ 4,991,700		5,431,500	\$	5,459,000	\$	5,486,400	\$	5,513,900	\$	5,541,400

#### **Five Year Financial Plan**

## Five-Year Financial Plan by Expense Category

		FY 2019 Amended		FY 2020 epartment		FY 2020 Dollar		2020 cent	D	FY 2021 epartment	D	FY 2022 epartment	D	FY 2023 epartment	D	FY 2024 epartment
Expense Categories	¥	Budget	R	lequested	1	Variance	Vari	ance	F	Requested	I	Requested	1	Requested	I	Requested
2.0 Personnel	\$	4,991,700	\$	5,431,500	\$	439,800		8.8%	\$	5,459,000	\$	5,486,400	\$	5,513,900	\$	5,541,400
4.2 Supplies & Other		883,300		353,000		(530,300)		-60.0%		358,400		327,800		327,300		333,800
4.3 Contractual Services		307,900		314,100		6,200		2.0%		320,300		326,700		333,300		339,900
5.2 Shared Services		(284,500)		(325,000)		(40,500)		14.2%		(331,500)		(338,100)		(344,800)		(351,700)
6.0 Capital Outlay		25,000		25,500		500		2.0%		105,800		30,700		31,300		9,200
Grand Total	\$	5,923,400	\$	5,799,100	\$	(124,300)		-2.1%	\$	5,912,000	\$	5,833,500	\$	5,861,000	\$	5,872,600



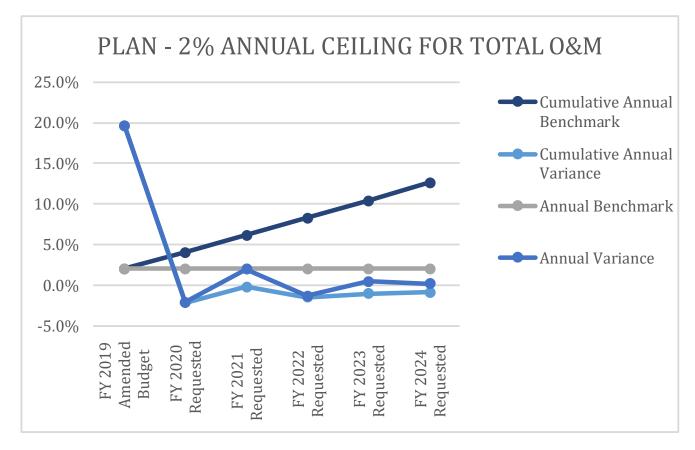


#### Five-Year Financial Plan by Team

	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team	<b>₹</b> Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
HazMat	\$ 1,347,20	0 \$ 1,545,500	\$ 198,300	14.7%	\$ 1,622,300	\$ 1,557,200	\$ 1,561,900	\$ 1,549,800
Security and Integrity	4,576,20	0 4,253,600	(322,600)	-7.0%	4,289,700	4,276,300	4,299,100	4,322,800
Grand Total	\$ 5,923,40	0 \$ 5,799,100	\$ (124,300)	-2.1%	\$ 5,912,000	\$ 5,833,500	\$ 5,861,000	\$ 5,872,600

Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Security and Integrity Area financial plan reflects a Five Year Overall decrease of 0.5% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".





## **Effective Utility Management Measures**

"Open for 1.2019 Revised Draft."

#### **Capital Outlay**

The Security and Integrity Area capital outlay is funded by both the O&M budget and the I&E budget.

## Capital Outlay by Asset Category

Asset Category	FY 2020 epartment Requested	FY 2021 epartment Requested	FY 2022 epartment Requested	De	FY 2023 partment equested	Dep	Y 2024 artment quested
Access Control, Surveillance	\$ 2,346,400	\$ 2,187,600	\$ 1,700,600	\$	-	\$	-
Safety Equipment	38,100	105,800	30,700		31,300		9,200
Grand Total	\$ 2,384,500	\$ 2,293,400	\$ 1,731,300	\$	31,300	\$	9,200

### Capital Outlay by Funding Source

		FY 2020		FY 2021		FY 2022		FY 2023	I	FY 2024
	D	Department		epartment	D	epartment	De	partment	De	partment
Asset Funding Source	F	Requested		Requested	I	Requested	R	equested	Re	equested
I&E	\$	2,346,400	\$	2,187,600	\$	1,700,600	\$	-	\$	-
O&M		38,100		105,800		30,700		31,300		9,200
Grand Total	\$	2,384,500	\$	2,293,400	\$	1,731,300	\$	31,300	\$	9,200

#### Capital Outlay by Team

Team	FY 2020 epartment Requested	FY 2021 epartment Requested	FY 2022 epartment Requested	De	FY 2023 partment equested	De	FY 2024 partment equested
HazMat	\$ 38,100	\$ 105,800	\$ 30,700	\$	31,300	\$	9,200
Security and Integrity	2,346,400	2,187,600	1,700,600		-		-
Grand Total	\$ 2,384,500	\$ 2,293,400	\$ 1,731,300	\$	31,300	\$	9,200

#### **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



Cost Contar & Description	FY 2018 Amended	FY 2018 Activity thru 06.30.2018	FY 2019 Board	FY 2020	FY 2021	FY 2022 Requested	FY 2023	FY 2024
Cost Center & Description	Budget		Adopted Budget	Requested	Requested	•	Requested	Requested
881201 - Security and Integrity	\$ 4,548,600		\$ 4,552,800			\$ 4,276,300	\$ 4,299,100	\$ 4,322,800
2.1 Salaries & Wages	2,919,600	2,919,400	2,609,600	2,780,300	2,780,300	2,780,300	2,780,300	2,780,300
Salaries & Wages	2,919,600	2,919,400	2,609,600	2,780,300	2,780,300	2,780,300	2,780,300	2,780,300
2.3 Overtime	289,700	289,600	219,700	164,400	164,400	164,400	164,400	164,400
Overtime	289,700	289,600	219,700	164,400	164,400	164,400	164,400	164,400
2.4 Employee Benefits	1,437,900	1,439,400	991,400	1,042,200	1,062,700	1,083,100	1,103,500	1,124,000
Employee Benefits	1,437,900	1,439,400	991,400	1,042,200	1,062,700	1,083,100	1,103,500	1,124,000
4.2 Supplies & Other	179,400	180,500	732,100	277,600	293,500	259,900	262,400	265,900
Memberships, Licenses & Subscriptions	23,100	21,600	23,100	23,600	24,000	24,500	25,000	25,500
Mileage and Parking			200	200	200	200	200	200
Office Supplies	17,800	17,800	10,100	20,300	20,500	20,700	20,900	21,200
Operating Supplies	57,000	57,800	524,200	82,000	94,800	57,800	57,000	57,000
Training and Internal Meetings	18,000	19,900	58,400	59,500	60,700	62,000	63,200	64,500
Travel	7,500	7,500	15,100	15,500	15,800	16,100	16,400	16,700
Tuition Refund	13,000	12,900						
Uniforms, Laundry, Cleaning			50,500	25,000	25,000	25,000	25,000	25,000
Utilities-Water								
Employee Uniform Expense	43,000	43,000	50,500	51,500	52,500	53,600	54,700	55,800
Inspection and Permit Fees								
Repairs & Maintenance-Facilities								
4.3 Contractual Services	307,500	307,600	307,900	314,100	320,300	326,700	333,300	339,900
Contractual Operating Services	307,500	307,600	297,900	303,900	309,900	316,100	322,500	328,900
Contractual Security Services			10,000	10,200	10,400	10,600	10,800	11,000
5.2 Shared Services	(585,500)	(585,500)	(284,500)	(325,000)	(331,500)	(338,100)	(344,800)	(351,700
Shared Services : Salaries & Wages Reimb	(374,500)	(374,500)	(284,500)	(275,000)	(280,500)	(286,100)	(291,800)	(297,600
Shared Services Reimbursement	(68,600)	(68,600)		(50,000)	(51,000)	(52,000)	(53,000)	(54,100
Shared Services: Employee Benefit Reimb	(142,400)	(142,400)						
5.1 Capital Program Allocation	-	-	(23,400)	-	-	-	-	-
Capital Program: Salaries & Wages-Direct			(23,400)					
Capital Program: Salaries & Wages-Indire	-	-	-	-	-	-	-	-
6.0 Capital Outlay	-	-	-	_	-	-	-	-
Capital Outlay less than \$5,000	-	-	-	_	-	-	-	-
Capital Outlay over \$5k(O&M-Capitalized)	-	-	-	-	-	-	_	-
9.8 Financial Reporting Only (No Budget)	-	-	-	_	-	-	-	-
Capital Outlay less than \$5,000								
Capital Outlay over \$5k(O&M-Capitalized)								
881202 - HazMat	\$ 402,800	\$ 402,700	\$ 1,347,200	\$ 1,545,500	\$ 1,622,300	\$ 1,557,200	\$ 1,561,900	\$ 1,549,800
2.1 Salaries & Wages	256,000	256,500	838,400	991,000	991,000	991,000	991,000	991,000
Salaries & Wages	256,000	256,500	838,400	991,000	991,000	991,000	991,000	991,000
2.3 Overtime	-	200	30,800	95,300	95,300	95,300	95,300	95,300
Overtime		200	30,800	95,300	95,300	95,300	95,300	95,300
2.4 Employee Benefits	75,500	75,000	301,800	358,300	365,300	372,300	379,400	386,400
Employee Benefits	75,500	75,000	301,800	358,300	365,300	372,300	379,400	386,400
4.2 Supplies & Other	71,300	71,000	151,200	75,400	64,900	67,900	64,900	67,900
Memberships, Licenses & Subscriptions	11,300	71,000	131,200	3,500	500	3,500	500	3,500
Office Supplies				7,000	7,000	7,000	7,000	7,000
Operating Supplies	63,300	63,100	113,700	10,000	15,000	15,000	15,000	15,000
Repairs & Maintenance-Equipment	05,500	03,100	113,700	13,900	20,900	20,900	20,900	20,900
	8,000	7,900	37,500	36,000	12,500	12,500	12,500	12,500
Training and Internal Meetings	٥,000	7,900	37,500	30,000				
Uniforms, Laundry, Cleaning				F 000	1,000	1,000	1,000	1,000
Francisco Haifenn Francisco				5,000	8,000	8,000	8,000	8,000
Employee Uniform Expense			25.000	25.500	105.000	20 700	24 200	
6.0 Capital Outlay	-	-	25,000	25,500	105,800	30,700	31,300	
	-	-	<b>25,000</b> 25,000	<b>25,500</b> 25,500	<b>105,800</b> 105,800	<b>30,700</b> 30,700	<b>31,300</b> 31,300	<b>9,200</b> 9,200



### **Highlights**

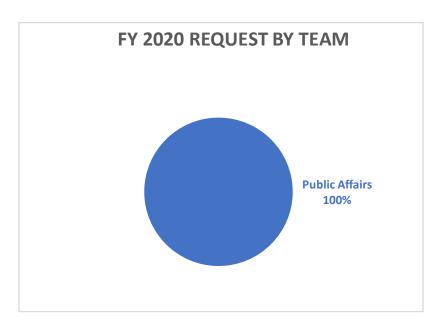
The Public Affairs Area is presently leading GLWA in several strategic initiatives.

- ❖ Grow and Enhance GLWA's Brand Awareness/Recognition Development and implementation of a pilot brand awareness campaign to heighten knowledge of GLWA, its mission and the value it brings to its member partners and southeast Michigan.
- Grow GLWA's Community Outreach Efforts Expose the GLWA brand to residents of our customer communities, support at least one community-focused event each year in Wayne, Oakland and Macomb Counties, as well as in an out-county community to which GLWA provides service.
- Provide Strategic Communication Counsel Working in partnership with the Board of Directors, produce one evening community each quarter in one of GLWA's founding communities.

#### **Organization**

The Public Affairs Area consists of a single team.

❖ Public Affairs – The Public Affairs Department is responsible for sharing the Authority's mission, vision, values and accomplishments with its stakeholders – both internal and external.



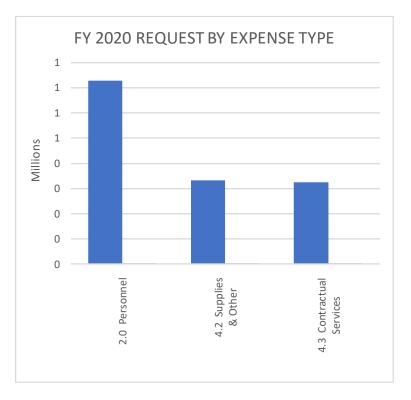


### **Expense Categories**

There are three major categories of Public Affairs expenses in the Operations and Maintenance Budget as listed below.

- Salaries & Wages
- Contractual Services
- Supplies & Other

Salaries & Wages is the highest expense category for Public Affairs. In FY 2020 an additional Office Support Specialist will be added in first quarter to support their key initiatives listed above.



## **Biennial Budget Request**

The biennial budget reflects an increase in FY 2020 as a result of launching the new GLWA Brand Awareness Campaign.

Biennial Budget Request by Expense Category

		FY 2018		FY 2018		FY 2019		FY 2019		FY 2020		FY 2020	FY 2020		FY 2021
	1	Amended	Ac	tivity thru	Α	Amended	Ac	tivity thru	De	partment		Dollar	Percent	De	partment
Expense Categories	,T	Budget	06	.30.2018		Budget	10	0.31.2018	R	equested	V	/ariance	Variance	R	equested
2.0 Personnel	\$	535,300	\$	535,100	\$	687,800	\$	179,865	\$	728,300	\$ -	40,500.00	5.9%	\$	753,900
4.2 Supplies & Other		127,100		126,100		225,300		60,096		333,800		108,500	48.2%		336,800
4.3 Contractual Services		312,000		316,300		279,600		35,783		324,000		44,400	15.9%		324,000
6.0 Capital Outlay		54,500		51,200		53,800		65,707		-		(68,800)	-100.0%		-
6.0 Capital Outlay		54,500		51,200		53,800		65,707		-		(68,800)	-100.0%		-
Grand Total	\$	1,028,900	\$ :	1,028,700	\$	1,246,500	\$	341,451	\$ :	1,386,100	\$	124,600	9.9%	\$	1,414,700



#### Biennial Budget Request by Team

	FY 2018	FY 2018	FY 2019	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
	Amended	Activity thru	Amended	Activity thru	Department	Dollar	Percent	Department
Team	Budget	06.30.2018	Budget	10.31.2018	Requested	Variance	Variance	Requested
Public Affairs	\$ 1,028,900	\$ 1,028,700	\$ 1,246,500	\$ 341,451	\$ 1,386,100	\$ 124,600	9.9%	\$ 1,414,700
<b>Grand Total</b>	\$ 1,028,900	\$ 1,028,700	\$ 1,246,500	\$ 341,451	\$ 1,386,100	\$ 124,600	9.9%	\$ 1,414,700

#### **Personnel Budget**

Public Affairs personnel consists of 8 positions for FY 2020. In first quarter of FY 2020 an office support specialist will be added to support key initiatives.

The following tables provide three alternate views of the staffing plans and budget.

*Staffing Plan* - The table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

Staffing Plan - Number of Positions

overy, may a real and an experience	01010110						
	Prior Year	Current Year	Biennial	Budget		Forecast	
_	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Team	Staffing Plan						
Public Affairs	7.00	7.00	8.00	8.00	8.00	8.00	8.00
Public Affairs	7.00	7.00	8.00	8.00	8.00	8.00	8.00

*Full-time Equivalents* - The table below presents "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. For this budget area, the Staffing Plan and the FTEs are consistent.

### Full-time Equivalents

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 FTE's	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's
Public Affairs	7.00	7.00	7.50	8.00	8.00	8.00	8.00
Public Affairs	7.00	7.00	7.50	8.00	8.00	8.00	8.00

*Personnel Budget* - The table below presents the Public Affairs personnel budget which consists of the following expense categories: Salaries & Wages, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment and Contractual Transition Services.



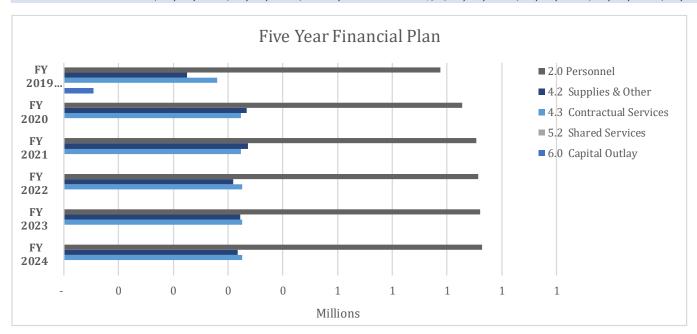
## Personnel Budget

	F۱	/ 2019	F	Y 2020	F	Y 2021		FY 2022		FY 2023		FY 2024
	Am	Amended		Department		Department		partment	Department		De	partment
Team	В	Budget		quested	Re	quested	Re	equested	Re	equested	Re	equested
Public Affairs	\$	\$ 687,800		728,300	\$	753,900	\$	757,200	\$	760,500	\$	763,900
Grand Total	\$	\$ 687,800		728,300	\$	753,900	\$	757,200	\$	760,500	\$	763,900

#### **Five Year Financial Plan**

Five-Year Financial Plan by Expense Category

Tive Tear Tinanci	ui i	Iun by LA	ρυ	nse care	ju	ı y									
		FY 2019		FY 2020		FY 2020	FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
		Amended	D	epartment		Dollar	Percent	D	epartment	D	epartment	D	epartment	D	epartment
<b>Expense Categories</b>	Ţ	Budget	]	Requested		Variance	Variance	1	Requested	I	Requested	I	Requested	F	Requested
2.0 Personnel		\$ 687,800	\$	728,300	\$	40,500	5.9%	\$	753,900	\$	757,200	\$	760,500	\$	763,900
4.2 Supplies & Other		225,300		333,800		108,500	48.2%		336,800		310,000		322,900		317,700
4.3 Contractual Services		279,600		324,000		44,400	15.9%		324,000		325,700		325,700		325,700
5.2 Shared Services		-		-		-	n/a		-		0		0		0
6.0 Capital Outlay		53,800		-		(68,800)	-100.0%		-		-		-		-
Grand Total		\$ 1,246,500	\$	1,386,100	\$	124,600	9.9%	\$	1,414,700	\$	1,392,900	\$	1,409,100	\$	1,407,300



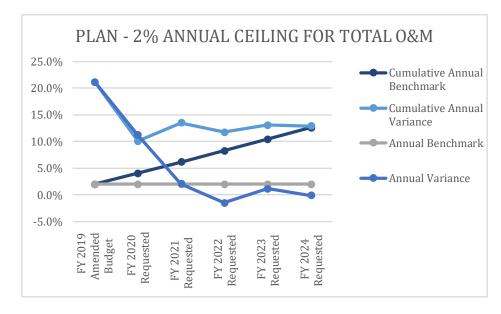


#### Five-Year Financial Plan by Team

		FY 2019		FY 2020	FY 2020	FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
		Amended	D	epartment	Dollar	Percent	D	epartment	D	epartment	D	epartment	D	epartment
Team	Ţ	Budget	R	lequested	Variance	Variance	]	Requested	1	Requested	F	Requested	F	Requested
Public Affairs	:	\$ 1,246,500	\$	1,386,100	\$ 124,600	9.9%	\$	1,414,700	\$	1,392,900	\$	1,409,100	\$	1,407,300
Public Affairs		1,246,500		1,386,100	124,600	9.9%		1,414,700		1,392,900		1,409,100		1,407,300
Grand Total	:	\$ 1,246,500	\$	1,386,100	\$ 124,600	9.9%	\$	1,414,700	\$	1,392,900	\$	1,409,100	\$	1,407,300

#### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Public Affairs Group's financial plan reflects a Five Year Overall increase of 9.8% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".



### **Effective Utility Management Measures**

"open for 1.2019 revised draft"



## **Capital Outlay**

Public Affairs capital outlay is funded by the I&E budget.

Capital Outlet by Asset Category

Asset Categories	Dep	Y 2020 partment quested	Dep	Y 2021 artment quested	Dej	FY 2022 partment equested	De	FY 2023 epartment equested	Dep	Y 2024 partment quested
Computers & IT	\$	75,000	\$	5,000	\$	18,000	\$	10,000	\$	22,000
Grand Total	\$	75,000	\$	5,000	\$	18,000	\$	10,000	\$	22,000

### Capital Outlay by Funding Source

	_	Y 2020 partment	_	Y 2021 artment	_	Y 2022 artment		FY 2023 partment	_	Y 2024 artment
Asset Funding Source	Re	quested	Rec	quested	Rec	quested	R	equested	Re	quested
I&E	\$	75,000	\$	5,000	\$	18,000	\$	10,000	\$	22,000
0&M										
Grand Total	\$	75,000	\$	5,000	\$	18,000	\$	10,000	\$	22,000

#### Capital Outlay by Team

	FY 202	20	FY 2021	FY 2022	FY 2023	FY 2024
	Departm		Department	Department	Department	Department
Team	Request	ted	Requested	Requested	Requested	Requested
Public Affairs	\$ 75	,000 \$	5,000	\$ 18,000	\$ 10,000	\$ 22,000
Grand Total	\$ 75,	,000	\$ 5,000	\$ 18,000	\$ 10,000	\$ 22,000

## **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget begins on the next page. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



		FY 2018 Amended		FY 2018 activity thru	-	/ 2019 Board		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024
Cost Center & Description	,	Budget		06.30.2018		pted Budget		Requested		Requested		Requested		Requested		Requested
883351 - Info Technology Business Applications	Ś	5.043.100			Ś	6.001.100		5,913,900		6.408.200		6.417.700		5.531.100		5.438.400
2.1 Salaries & Wages	7	768,400	7	380,300	Ψ	959,400	7	1,089,000	7	1,089,000	Ψ.	1,089,000	7	1,089,000	7	1,089,000
Salaries & Wages		768,400		380,300		959,400		1,089,000		1,089,000		1,089,000		1.089.000		1,089,000
2.4 Employee Benefits		181,200		110,800		268,100		308,600		314,700		320,700		326,800		332,800
Employee Benefits		181,200		110,800		268,100		308,600		314,700		320,700		326,800		332,800
2.5 Transition Services		37,800		-		138,600		-		-		-		-		-
Contractual Transition Services		37,800				138,600										
4.2 Supplies & Other		950,000		132,900		1,407,300		1,245,600		1,248,500		1,250,800		3,754,100		3,756,600
Memberships, Licenses & Subscriptions		330,000		202,500		500		500		500		500		500		600
Repairs & Maintenance-Software		739,900		119,200		1,368,800		1,206,300		1,208,500		1,210,000		3,712,500		3,714,000
Training and Internal Meetings		205,100		115,200		20,000		20,400		20,800		21,200		21,600		22,100
Travel		5.000		13,700		18,000		18,400		18,700		19,100		19,500		19,900
4.3 Contractual Services		4,541,700		1,732,600		3,166,600		4,004,200		3,706,000		3,707,200		311,200		210,000
Contract Services-Information Technology		3,481,700		1,193,700		2,972,600		3,810,200		3,508,100		3,505,300		105,300		220,000
Contractual Operating Services		1,060,000		538,900		194,000		194,000		197,900		201,900		205,900		210,000
5.2 Shared Services		(2,402,500)		(704,000)		(265,600)		(783,500)		-		-		-		
Shared Services : Salaries & Wages Reimb		(226,300)		(107,300)		(180,700)		(75,400)								
Shared Services Reimbursement		(2,176,200)		(553,800)		(84,900)		(708,100)								
Shared Services: Employee Benefit Reimb		(2)2,0)200)		(42,900)		(0.)000)		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
6.0 Capital Outlay		966,500		148,800		326,700		50,000		50,000		50,000		50,000		50,000
Capital Outlay less than \$5,000		63,000		,		,				,		,				,
Capital Outlay over \$5k(O&M-NonCapitlzd)		903,500		148,800		326,700		50,000		50,000		50,000		50,000		50,000
883361 - Info Technology Security & Risk	Ś	326,000	Ś	(546,300)	Ś	491,700	Ś	403,200	Ś	436,500	Ś	438,600	Ś	440,700	Ś	442,900
2.1 Salaries & Wages	<b>—</b>	225,700	·	110,100	· ·	206,300	_	290,000	Ψ.	290,000	·	290,000	Ψ.	290,000	Ψ.	290,000
Salaries & Wages		225,700		110,100		206,300		290,000		290.000		290,000		290.000		290.000
2.4 Employee Benefits		65,500		25,100		54,600		78,300		79,900		81,400		82,900		84,500
Employee Benefits		65,500		25,100		54,600		78,300		79,900		81,400		82,900		84,500
4.2 Supplies & Other		63,500		(65,000)		3,500		3,600		3,600		3,700		3,800		3,900
Memberships, Licenses & Subscriptions		3,500		(//		3,500		3,600		3,600		3,700		3,800		3,900
Mileage and Parking		-,		100		-		-		-,		-,		-,		-,
Repairs & Maintenance-Software		60,000		(65,500)												
Travel		-		400		-		_		-		-		-		-
5.2 Shared Services		(28,700)		(629,900)		(82,700)		(31,200)		-		_		-		-
Shared Services : Salaries & Wages Reimb		(20,700)		(27,100)		(82,700)		(31,200)				-		-		_
Shared Services Reimbursement		, ,,		(592,000)		, ,,		, , , , , , ,				-		-		-
Shared Services: Employee Benefit Reimb		(8,000)		(10,800)										-		-
6.0 Capital Outlay		-		13,400		310,000		62,500		63,000		63,500		64,000		64,500
Capital Outlay less than \$5,000		-		4,300		-				-		-				,500
Capital Outlay over \$5k(O&M-NonCapitlzd)		-		9.100		310,000		62,500		63,000		63,500		64,000		64,500
Grand Total	Ś	24,473,600	Ś	11,342,508	Ś	30,507,800	Ś	36,254,300	Ś	38,630,400	Ś	39,640,600	Ś	38,689,600	Ś	39,587,400



### **Highlights**

The Financial Services Area is engaged in several strategic initiatives – both as leader and key participant in entity-wide initiatives.

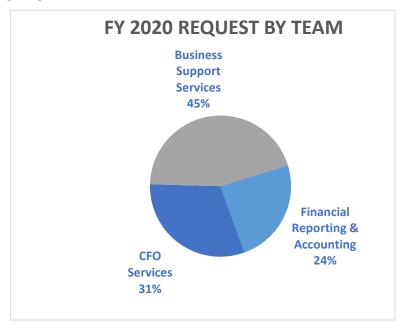
- ❖ Financial operations: rollout of automation to reduce the inefficiencies of transactional and processing times to expand analytical capacity.
- ❖ Business support: expand the Small Business Initiative, explore utility cooperative procurement sponsorship, and vendor quality management.
- Cross-functional collaboration in key initiatives: strategic asset management, enterprise asset management, capital program management, and Ceridian reimplementation.

## **Organization**

The Financial Services Area consists of three groups.

- CFO Services Plans and directs all strategic financial planning, compliance, internal audit, and intergovernmental activities.
- Business Support Services Responsible for procurement, inventory management, and transformational business support.
- Financial Reporting & Accounting

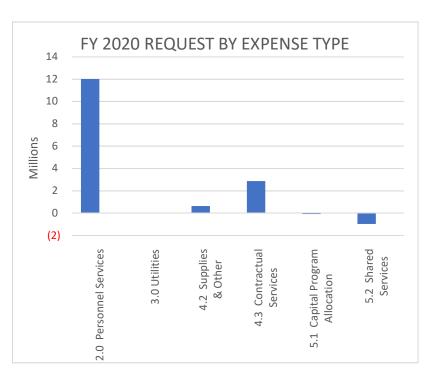
   Construction, general ledger,
   accounts payable, payroll, asset
   management, and related activities.





### **Expense Categories**

The primary expense category in the Financial Services area is Personnel Services. The second largest category is contractual services for transitional staffing, project management support, and other special projects, studies, and audits.



### **Biennial Budget Request**

The biennial reflects an increase in FY 2020 as a result of securing personnel services in accordance with the staffing model to deliver on the strategic initiatives defined above.

### Biennial Budget Request by Expense Category

<i>y</i> =p		• 9					
		FY 2018	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021
FY	2018 Amended	Activity thru	Amended	Department	Dollar	Percent	Department
,T	Budget	06.30.2018	Budget	Requested	Variance	Variance	Requested
\$	10,502,800	\$ 10,262,800	\$ 10,728,800	\$ 12,016,200	\$ 1,287,400	\$ 0	\$ 12,148,400
	20,000	21,100	13,000	16,200	3,200	24.6%	16,500
	599,400	580,000	685,000	629,600	(55,400)	-8.1%	633,300
	2,329,400	2,345,200	3,454,700	2,864,900	(589,800)	-17.1%	2,909,300
	(6,300)	(5,700)		(78,500)	(78,500)	0.0%	(78,900)
	(36,300)	(38,600)	(945,900)	(964,900)	(19,000)	2.0%	(984,200)
	(78,100)	(78,100)	•	•	•	0.0%	-
\$	13,330,900	\$ 13,086,700	\$ 13,935,600	\$ 14,483,500	\$ 547,900	3.9%	\$ 14,644,400
	FY S	FY 2018 Amended Budget \$ 10,502,800 20,000 599,400 2,329,400 (6,300) (36,300) (78,100)	FY 2018 Amended	FY 2018 Amended Activity thru Budget 06.30.2018 Budget 8 10,502,800 \$10,262,800 \$10,728,800 220,000 21,100 13,000 599,400 580,000 685,000 2,329,400 2,345,200 3,454,700 (6,300) (5,700) - (36,300) (38,600) (945,900) (78,100) -	FY 2018 Amended Budget Requested  \$ 10,502,800 \$10,262,800 \$10,728,800 \$12,016,200  20,000 21,100 13,000 16,200  599,400 580,000 685,000 629,600  2,329,400 2,345,200 3,454,700 2,864,900  (6,300) (5,700) - (78,500)  (36,300) (38,600) (945,900) (964,900)  (78,100) (78,100) -	FY 2018 Amended Budget Pry 2018 Amended Budget Requested Variance  \$ 10,502,800 \$10,262,800 \$10,728,800 \$12,016,200 \$1,287,400  20,000 21,100 13,000 16,200 3,200  599,400 580,000 685,000 629,600 (55,400)  2,329,400 2,345,200 3,454,700 2,864,900 (589,800)  (6,300) (5,700) - (78,500) (78,500)  (36,300) (38,600) (945,900) (964,900) (19,000)  (78,100) (78,100)	FY 2018 Amended Budget Requested Variance Variance  \$ 10,502,800 \$ 10,262,800 \$ 10,728,800 \$ 12,016,200 \$ 1,287,400 \$ 0  20,000 21,100 13,000 16,200 \$ 1,287,400 \$ 0  29,400 580,000 685,000 629,600 (55,400) -8.1%  2329,400 2,345,200 3,454,700 2,864,900 (589,800) -17.1%  (6,300) (5,700) - (78,500) (78,500) 0.0%  (36,300) (38,600) (945,900) (964,900) (19,000) 2.0%  (78,100) (78,100) 0.0%

#### Biennial Budget Request by Team

			FY 2018	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	Ĺ
	F	Y 2018 Amended	Activity thru	Amended	Department	Dollar	Percent	Departmen	nt
Team _T		Budget	06.30.2018	Budget	Requested	Variance	Variance	Requeste	d
CFO Services	\$	4,005,400	\$ 4,004,400	\$ 4,485,100	\$ 4,488,400	\$ 3,300	0.1%	\$ 4,513,9	00
<b>Business Support Services</b>		6,313,900	6,070,900	6,161,400	6,483,300	321,900	5.2%	6,606,5	00
Financial Reporting & Accounting		3,011,600	3,011,400	3,289,100	3,511,800	222,700	6.8%	3,524,0	00
Grand Total	\$	13,330,900	\$ 13,086,700	\$ 13,935,600	\$ 14,483,500	\$547,900	3.9%	\$ 14,644,4	00



#### **Personnel Budget**

The following tables provide three alternate views of the staffing plans and budget

Staffing Plan – the table below presents the number of positions in the plan. Each position has a value of one. The position count does not distinguish between a position that is filled 100% (2,080 hours per year), filled for a number of hours less than 2,080 per year, or one that is vacant.

Staffing Plan – Number of Positions

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 Staffing Plan	FY 2019 Staffing Plan	FY 2020 Staffing Plan	FY 2021 Staffing Plan	FY 2022 Staffing Plan	FY 2023 Staffing Plan	FY 2024 Staffing Plan
Financial Services Area	110.00	118.00	123.00	123.00	123.00	123.00	123.00
CFO Services	20.00	26.00	29.00	29.00	29.00	29.00	29.00
Chief Financial Officer	2.00	3.00	5.00	5.00	5.00	5.00	5.00
Data Analytics & Internal Audit	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Financial Planning & Analysis	6.00	8.00	9.00	9.00	9.00	9.00	9.00
Public Finance	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Reporting and Compliance	0.00	4.00	4.00	4.00	4.00	4.00	4.00
Treasury	4.00	3.00	3.00	3.00	3.00	3.00	3.00
Business Support Services	63.00	65.00	67.00	67.00	67.00	67.00	67.00
Logistics and Materials	22.00	23.00	24.00	24.00	24.00	24.00	24.00
Owners' Representative	5.00	5.00	6.00	6.00	6.00	6.00	6.00
Procurement Director	1.00	1.00	2.00	2.00	2.00	2.00	2.00
Procurement (Enterprise Services)	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Procurement (Wastewater)	12.00	12.00	11.00	11.00	11.00	11.00	11.00
Procurement (Water & Field Services)	9.00	9.00	8.00	8.00	8.00	8.00	8.00
Transformation	6.00	7.00	8.00	8.00	8.00	8.00	8.00
Financial Reporting & Accounting	27.00	27.00	27.00	27.00	27.00	27.00	27.00
Financial Reporting & Accounting	27.00	27.00	27.00	27.00	27.00	27.00	27.00

Full Time Equivalents – the table below presents, "full-time equivalent" (FTE) staffing. FTE is based on the number of hours that the position is filled, or budgeted for, in a given year based upon a standard of 2,080 hours per year. In addition, the Financial Services Area employees part-time employees.



## **Full Time Equivalents**

	Prior Year	Current Year	Biennial	Budget		Forecast	
Team	FY 2018 Approved FTEs	FY 2019 Approved FTE's	FY 2020 FTE's	FY 2021 FTE's	FY 2022 FTE's	FY 2023 FTE's	FY 2024 FTE's
Financial Services Area	109.50	114.25	119.25	121.00	121.00	121.00	121.00
CFO Services	20.00	26.00	29.00	29.00	29.00	29.00	29.00
Chief Financial Officer	2.00	3.00	5.00	5.00	5.00	5.00	5.00
Data Analytics & Internal Audit	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Financial Planning & Analysis	6.00	8.00	9.00	9.00	9.00	9.00	9.00
Public Finance	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Reporting and Compliance	0.00	4.00	4.00	4.00	4.00	4.00	4.00
Treasury	4.00	3.00	3.00	3.00	3.00	3.00	3.00
Business Support Services	63.00	63.25	64.25	66.00	66.00	66.00	66.00
Logistics and Materials	22.00	23.00	23.25	24.00	24.00	24.00	24.00
Owners' Representative	5.00	4.25	6.00	6.00	6.00	6.00	6.00
Procurement Director	1.00	1.00	1.50	1.50	1.50	1.50	1.50
Procurement (Enterprise Services)	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Procurement (Wastewater)	12.00	11.50	10.00	10.50	10.50	10.50	10.50
Procurement (Water & Field Services)	9.00	8.75	7.50	8.00	8.00	8.00	8.00
Transformation	6.00	6.75	8.00	8.00	8.00	8.00	8.00
Financial Reporting & Accounting	26.50	25.00	26.00	26.00	26.00	26.00	26.00
Financial Reporting & Accounting	26.50	25.00	26.00	26.00	26.00	26.00	26.00

*Personnel Budget* – The table below presents the Financial Services Area personnel budget which consists of the following expense categories: Salaries & Wager, Salaries & Wages – Workforce Development, Employee Benefits, Personnel Transition Adjustment, and Contractual Transition Services.

## Personnel Budget

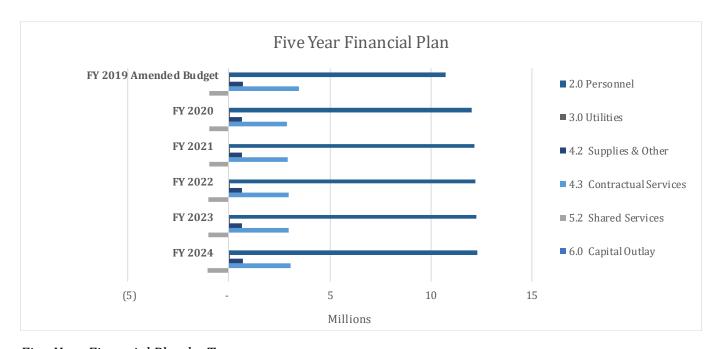
	Prior Year	Current Year	Bieni	nial Budget		Forecast	
Team J	FY 2018 Amended Budget	2019 Amended Budget		Sum of FY 2021 Department Requested	Sum of FY 2022 Department Requested	Sum of FY 2023 Department Requested	Sum of FY 2024 Department Requested
Financial Services Area	\$ 10,502,800	\$ 10,728,800	\$ 12,016,200	\$ 12,148,400	\$ 12,193,100	\$ 12,237,400	\$ 12,281,800
CFO Services	2,618,100	2,952,900	3,501,300	3,513,200	3,525,300	3,537,300	3,549,300
Chief Financial Officer	365,700	442,900	792,700	794,400	796,100	797,900	799,600
Data Analytics & Internal Audit	366,000	455,100	456,100	457,100	458,100	459,100	460,100
Financial Planning & Analysis	773,000	877,000	1,022,900	1,027,300	1,031,600	1,035,900	1,040,300
Public Finance	841,300	807,900	546,800	548,600	550,500	552,400	554,300
Treasury	272,100	370,000	302,200	303,500	304,900	306,200	307,500
Reporting and Compliance	0	0	380,600	382,300	384,100	385,800	387,500
Business Support Services	5,394,500	5,501,900	6,030,100	6,140,200	6,162,600	6,184,600	6,206,800
Logistics and Materials	1,090,200	1,363,300	1,510,500	1,553,300	1,561,300	1,569,200	1,577,100
Owners' Representative	97,000	245,200	680,900	683,800	686,700	689,600	692,500
Transformation	1,183,000	1,189,400	1,391,700	1,391,700	1,391,700	1,391,700	1,391,700
Procurement Director	1,257,000	321,500	221,100	222,000	222,900	223,700	224,600
Procurement (Water & Field Services)	963,300	1,134,800	723,700	746,900	750,200	753,500	756,800
Procurement (Wastewater)	702,800	864,700	840,700	877,900	882,000	886,000	890,100
Procurement (Enterprise Services)	101,200	383,000	661,500	664,600	667,800	670,900	674,000



#### Five Year Financial Plan

#### Five-Year Financial Plan by Expense Category

				FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	1	FY 2019 Amended	I	Department	Dollar	Percent	Department	Department	Department	Department
Expense Categories	J	Budget		Requested	Variance	Variance	Requested	Requested	Requested	Requested
2.0 Personnel	\$	10,728,800	\$	12,016,200	\$ 1,287,400	12.0%	\$12,148,400	12,193,100	12,237,400	12,281,800
3.0 Utilities		13,000		16,200	3,200	24.6%	16,500	16,700	17,000	18,400
4.2 Supplies & Other		685,000		629,600	(55,400)	-8.1%	633,300	642,900	658,300	683,100
4.3 Contractual Services		3,454,700		2,864,900	(589,800)	-17.1%	2,909,300	2,942,000	2,951,600	3,062,700
5.1 Capital Program Allocation		-		(78,500)	(78,500)	0.0%	(78,900)	(79,200)	(79,500)	(79,800)
5.2 Shared Services		(945,900)		(964,900)	(19,000)	2.0%	(984,200)	(1,003,900)	(1,024,000)	(1,044,500)
Grand Total	\$	13,935,600	\$	14,483,500	\$ 547,900	3.9%	\$14,644,400	14,711,600	14,760,800	14,921,700



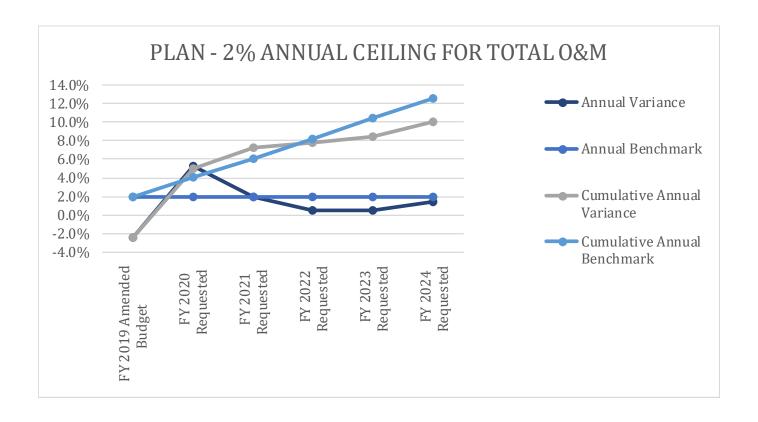
## Five-Year Financial Plan by Team

			FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	F	Y 2019 Amended	Department	Dollar	Percent	Department	Department	Department	Department
Team	r	Budget	Requested	Variance	Variance	Requested	Requested	Requested	Requested
CFO Services	\$	4,485,100	\$ 4,488,400	\$ 3,300	\$ 0	\$ 4,513,900	\$ 4,533,400	\$ 4,534,600	\$ 4,584,300
<b>Business Support Services</b>		6,161,400	6,483,300	321,900	0	6,606,500	6,642,000	6,677,700	6,776,500
Financial Reporting & Accounting		3,289,100	3,511,800	222,700	0	3,524,000	3,536,200	3,548,500	3,560,900
Grand Total	\$	13,935,600	\$ 14,483,500	\$547,900	3.9%	\$ 14,644,400	\$ 14,711,600	\$ 14,760,800	\$ 14,921,700

### Alignment with Entity-wide Annual O&M Ceiling Goal of 2%

The Financial Services Group's financial plan reflects a Five Year Overall increase of 10.0% while the entity-wide goal is a cumulative 12.6% for planning purposes (based upon an annual 2% adjustment). It should be noted that the provision for wage and benefit adjustments included in the annual "unallocated 0&M reserve".





#### **Effective Utility Management Measures**

Open for 1.2019 revised draft

#### **Capital Outlay:**

No Capital outlay is projected for fiscal years 2020 thru 2024 for the Financial Services Area.

#### **Line Item Budget and Financial Plan**

The five-year plan with a line item expense budget is shown below. The expenses are listed in numerical order by cost center. Because many of GLWA's initiatives expand multiple years, this planning document provides the information to smooth out expenses over time and/or plan for annual fluctuations.



	12.00		i iggassaumez	FY 2020	FY 2021	FY 20		FY 2023	FY 202
	Sum of FY 2018	FY 2018 Activity	FY 2019 Board		Department	Departme		artment	Departmen
Expense Category 📑	Amended Budget	thru 06.30.2018	Adopted Budget		Requested	Requeste		quested	Requeste
	\$ 563,100	\$ 563,000	\$ 686,900		\$ 843,000	\$ 845,70		348,500 \$	-
2.1 Salaries & Wages	316,100	315,100	353,000	457,200	457,200	457,20		157,200	457,200
2.4 Employee Benefits	49,600	49,800	89,900	90,000	91,700	93,40		95,200	96,900
4.2 Supplies & Other	41,700	40,800	44,000	47,700	48,600	49,60		50,600	51,500
Memberships, Licenses & Subsc	6,000	6,400	9,000	10,000	10,200	10,40		10,600	10,800
Mileage and Parking	1.5	1	2,000	2,000	2,100	2,10		2,200	2,200
Miscellaneous Expense	1,500	1,600	3,000	3,100	3,100	3,20		3,200	3,300
Postage	200	100	200	200	200	20		200	200
Travel	6,000	6,000	11,000	11,200	11,400	11,70	0	11,900	12,100
4.3 Contractual Services	155,700	157,300	200,000	-	-	-		-	-
884111 - Financial Reporting &									
Accounting	\$ 3,011,600	\$ 3,011,400		\$ 3,511,800	\$ 3,524,000			48,500 \$	-,,-
2.1 Salaries & Wages	1,326,500	1,326,800	1,436,200	1,746,900	1,746,900	1,746,90	0 1,7	46,900	1,746,900
2.3 Overtime	2,300	2,400	5,200	2,000	2,000	2,00	0	2,000	2,000
2.4 Employee Benefits	424,000	423,700	444,400	532,000	542,200	552,40	0 !	62,700	572,900
4.2 Supplies & Other	69,000	63,000	84,600	96,400	98,300	100,20	0 :	102,100	104,200
Memberships, Licenses & Subsc	2,900	2,600	6,900	7,000	7,100	7,30	0	7,400	7,600
Mileage and Parking	2,600	1,100	2,600	2,700	2,800	2,80	0	2,900	2,900
Office Supplies	27,000	25,800	27,000	30,000	30,600	31,20	0	31,800	32,500
Operating Supplies	-	(200)	-	_	-	-		-	_
Postage	20,600	18,700	26,600	30,000	30,600	31,20	0	31,800	32,500
Training and Internal Meetings	9,000	8,100	9,000	14,000	14,300	14,60		14,900	15,200
Travel	6,900	6,900	10,000	10,200	10,400	10,60		10,800	11,000
Tuition Refund	-	-	2,500	2,500	2,500	2,50		2,500	2,500
4.3 Contractual Services	530,500	537,500	930,500	930,600	930,700	930,80		30,900	931,000
Auditing	55,000	57,900	450,000	450,000	450,000	450,00		150,000	450,000
Contractual Operating Services	4,500	9,000	4,500	4,600	4,700	4,80		4,900	5,000
Contractual Professional Service	471,000	470,600	476,000			476,00		176,000	476,000
			470,000	476,000	476,000	470,00		,70,000	470,000
6.0 Capital Outlay	(78,100)	(78,100)	42.000	42.000	42.000	42.00	0	42.000	42.00
2.2 Workforce Development	-	-	12,800	12,800	12,800	12,80		12,800	12,800
Salaries & Wages - Workforce D			12,800	12,800	12,800	12,80		12,800	12,800
2.5 Transition Services	737,400	736,100	466,300	191,100	191,100	191,10		191,100	191,100
Contractual Transition Services	737,400	736,100	466,300	191,100	191,100	191,10	0 :	191,100	191,100
2.6 Personnel Transition Adjustm	-	-	(90,900)		-	-		-	-
Personnel Transition Adjustmer	-		(90,900)	-		-		-	-
884113 - Financial Planning &									
	\$ 1,095,200				\$ 1,243,900			253,200 \$	
2.1 Salaries & Wages	567,000	564,600	587,000	797,000	797,000	797,00		797,000	797,000
2.4 Employee Benefits	129,200	130,200	166,300	225,900	230,300	234,60	0 2	238,900	243,300
4.2 Supplies & Other	11,000	9,200	12,000	16,300	16,600	16,90	0	17,300	17,700
Memberships, Licenses & Subsc	1,900	1,700	1,900	2,300	2,300	2,40	0	2,400	2,500
Mileage and Parking	200	100	200	300	300	30	0	300	400
Office Supplies	2,600	1,400	1,900	2,700	2,800	2,80	0	2,900	2,900
Training and Internal Meetings	3,800	3,900	5,000	6,000	6,100	6,20	0	6,400	6,500
Travel	2,500	2,100	3,000	5,000	5,100	5,20	0	5,300	5,400
4.3 Contractual Services	311,200	312,500	300,000	200,000	200,000	200,00	0 2	200,000	200,000
Contractual Professional Service	311,200	312,500	300,000	200,000	200,000	200,00	0 2	200,000	200,000
2.5 Transition Services	76,800	78,600	176,700	-	-	-		-	_
Contractual Transition Services	76,800	78,600	176,700	s, <b>-</b> );	_	-			-
2.6 Personnel Transition Adjustm	-	-	(53,000)	-	_	-		-	_
Personnel Transition Adjustmer	-	-	(53,000)		-			-	-
	\$ 688,000	\$ 687,000			\$ 598,200	\$ 605,50	0 \$ (	512,800 \$	620,100
2.1 Salaries & Wages	199,600	199,600	260,600	233,000	233,000	233,00		233,000	233,000
2.4 Employee Benefits	55,500	56,100	72,900	69,200	70,500	71,90		73,200	74,500
									19,900
4.2 Supplies & Other	12,900	11,700	14,700	18,500	18,800	19,20	U	19,600	19,900
Capital Outlay less than \$5,000	1,500	1,500	1 700		-	- 2.60	0	2 700	-
Memberships, Licenses & Subsc	1,700	1,300	1,700	2,500	2,500	2,60		2,700	2,70
Mileage and Parking	500		500	500	500	50		500	50
Office Supplies	3,800	3,900	5,000	5,000	5,100	5,20		5,300	5,40
Postage	500	-	500	500	500	50		500	50
Training and Internal Meetings	2,300	2,300	3,500	5,000	5,100	5,20		5,300	5,40
Travel	2,600	2,700	3,500	5,000	5,100	5,20	0	5,300	5,40
4.3 Contractual Services	403,000	401,400	1,413,000	1,196,500	1,220,400	1,244,80	0 1,2	269,700	1,295,10
Contractual Operating Services	403,000	401,100	1,413,000	1,196,500	1,220,400	1,244,80	0 1,2	269,700	1,295,10
Contractual Professional Service	-	300	-	-	-			150	-
2.5 Transition Services	17,000	18,200	52,200	-	-	-		-	-
Contractual Transition Services	17,000	18,200	52,200	-	-			-	-
2.6 Personnel Transition Adjustr	,	,	(15,700)	-	2	0-		-	-
Personnel Transition Adjustmer	-	_	(15.700)	-	_	_		-	-
Personnel Transition Adjustmer 5.2 Shared Services			(15,700) (907,800)		(944,500)	(963,40	0) (6	- 982,700)	(1,002,40



Expense Category 1		m of FY 2018 nded Budget		FY 2018 Activity thru 06.30.2018		FY 2019 Board Adopted Budget		FY 2020 Department Requested		FY 2021 Department Requested		FY 2022 Department Requested		FY 2023 Department Requested		FY 202 Departmen Requeste
884135 - CFO Services	\$	-	\$	-	\$	-	\$	395,200	\$	397,000	\$	399,300	Ś	401,200	\$	403,400
2.1 Salaries & Wages	•	,		-	•	-	200	285,900		285,900	•	285,900		285,900	•	285,900
2.3 Overtime		-		_		_		6,000		6,000		6,000		6,000		6,000
2.4 Employee Benefits		-		_		_		88,700		90,400		92,200		93,900		95,60
4.2 Supplies & Other		_		<u></u>				14,600		14,700		15,200		15,400		15,90
Memberships, Licenses & Subsc						_		2,000		2,000		2,100		2,100		2,20
Mileage and Parking								400		400		400		400		40
Office Supplies		_				_		6,000		6,100		6,200		6,400		6,50
Postage		1000						2,200		2,200		2,300		2,300		2,40
Training and Internal Meetings								2,000		2,000		2,100		2,100		2,20
Travel		150				-		2,000		2,000		2,100		2,100		2,20
	Ś	1 255 900	Ś	1 255 000	Ś	1 179 100	ċ		ė	884,900	ė	884,800	ċ	866,500	ċ	
884141 - Public Finance	Þ	1,255,800	Þ		Þ	1,178,100	>	-	\$		Þ		Þ	100000000000000000000000000000000000000	>	896,40
2.1 Salaries & Wages		453,600		453,200		540,500		340,100		340,100		340,100		340,100		340,10
2.3 Overtime		4,900		4,900		6,000		-		-		404 50-				
2.4 Employee Benefits		122,100		122,700		158,900		97,800		99,600		101,500		103,400		105,3
4.2 Supplies & Other		18,000		15,200		24,300		11,800		15,400		12,300		16,000		12,8
Memberships, Licenses & Subsc		600		700		600		700		700		700		700		7
Mileage and Parking		2,100		700		2,500		800		800		800		800		8
Office Supplies		10,000		9,800		12,500		7,000		7,100		7,300		7,400		7,6
Postage		600		500		3,100		1,000		1,000		1,000		1,100		1,1
Training and Internal Meetings		1,200		800		3,600		1,300		3,700		1,300		3,700		1,3
Travel		2,000		1,200		2,000		1,000		2,100		1,200		2,300		1,3
Tuition Refund		1,500		1,500		-		-		-		(-)		-		-
4.3 Contractual Services		396,500		401,800		384,000		358,700		360,600		362,500		339,400		371,4
Contractual Operating Services		49,000		55,600		84,000		93,700		95,600		97,500		99,400		101,4
Contractual Professional Service		347,500		346,200		300,000		240,000		240,000		240,000		240,000		240,0
Legal		1-		-		-		25,000		25,000		25,000		-		30,0
6.0 Capital Outlay		-		-		-		-		-		-		-		-
2.5 Transition Services		260,700		260,400		146,500		108,900		108,900		108,900		108,900		108,9
Contractual Transition Services		260,700		260,400		146,500		108,900		108,900		108,900		108,900		108,9
2.6 Personnel Transition Adjustr		-		_		(44,000)		-		1100		04		-		_
Personnel Transition Adjustmer				_		(44,000)		0 <del>.</del> 0		_		10 <del>-</del>		10 <del>0</del>		-
5.2 Shared Services		-		(2,300)		(38,100)		(38,900)		(39,700)		(40,500)		(41,300)		(42,1
Shared Services : Salaries & Wag		-		(2,300)				-		-				-		
Shared Services Reimbursemen		-		(=,,		(38,100)		(38,900)		(39,700)		(40,500)		(41,300)		(42,1
884151 - Data Analytics & Internal						(,)		(,,		(,,		(,/		(,,		(/-
udit	Ś	403,300	Ś	403,400	s	541,200	Ś	544,000	Ś	546,900	Ś	549,600	Ś	552,400	S	555,30
2.1 Salaries & Wages	*	105,900	*	105,300	*	186,400	*	186,400	*	186,400	*	186,400	*	186,400	*	186,40
2.4 Employee Benefits		22,100		22,200		50,900		51,900		52,900		53,900		54,900		55,9
4.2 Supplies & Other		4,300		2,700		22,600		6,700		6,800		7,000		7,100		7,2
Memberships, Licenses & Subsc		4,300		2,700		1,200		1,200		1,200		1,300		1,300		1,3
Mileage and Parking				-		1,200		100		100		1,300		100		1,3
Office Supplies		100		1 1		16,400		300		300		300		300		3
• • • • • • • • • • • • • • • • • • • •		1,500		800												
Training and Internal Meetings						3,000		3,100		3,100		3,200		3,200		3,3
Travel		2,800		1,900		2,000		2,000		2,100		2,100		2,200		2,2
4.3 Contractual Services		33,000		33,700		63,500		81,200		83,000		84,500		86,200		88,0
Contractual Professional Service		33,000		33,700		63,500		81,200		83,000		84,500		86,200		88,0
6.0 Capital Outlay						200.000		-						-		
2.5 Transition Services		238,000		239,500		217,800		217,800		217,800		217,800		217,800		217,8
Contractual Transition Services		238,000		239,500		217,800		217,800		217,800		217,800		217,800		217,8



				FY 2020	FY 2021	FY 2022		FY 2024
	Sum of FY 2018	FY 2018 Activity	FY 2019 Board	Department	Department	Department	Department	Departmen
Expense Category 📑	Amended Budget	thru 06.30.2018	Adopted Budget	Requested	Requested	Requested	Requested	Requeste
884161 - Transformation	\$ 1,189,200	\$ 946,200	\$ 1,207,400	\$ 1,414,900	\$ 1,415,400	\$ 1,415,900	\$ 1,416,400	\$ 1,416,800
4.2 Supplies & Other	6,200	5,800	18,000	23,200	23,700	24,200	24,700	25,100
Memberships, Licenses & Subsc	1,000	1,100	2,000	2,000	2,100	2,100	2,200	2,200
Mileage and Parking	-	-	1,000	1,000	1,000	1,100	1,100	1,100
Office Supplies	1,800	1,900	2,000	5,000	5,100	5,200	5,300	5,400
Operating Supplies	200	200	3,000	5,000	5,100	5,200	5,300	5,400
Training and Internal Meetings	2,000	1,900	7,000	7,100	7,300	7,400	7,600	7,700
Travel	1,200	700	3,000	3,100	3,100	3,200	3,200	3,300
2.5 Transition Services	1,183,000	940,400	1,470,100	1,391,700	1,391,700	1,391,700	1,391,700	1,391,700
Contractual Transition Services	1,183,000	940,400	1,470,100	1,391,700	1,391,700	1,391,700	1,391,700	1,391,700
2.6 Personnel Transition Adjustr	-	-	(280,700)	-	-	-	-	
Personnel Transition Adjustmer	-	-	(280,700)	-			-	-
884121 - Procurement	\$ 1,661,300	\$ 1,661,300	\$ 663,500	\$ 461,500	\$ 482,100	\$ 490,600	\$ 500,600	\$ 556,100
2.1 Salaries & Wages	545,700	544,300	250,400	176,200	176,200	176,200	176,200	176,200
2.3 Overtime	1,000	700	_	-	101.00.00	-	-	-
2.4 Employee Benefits	284,400	283,900	71,100	44,900	45,800	46,700	47,500	48,400
4.2 Supplies & Other	184,500	185,700	137,100	142,500	145,500	148,300	151,500	154,300
Advertising	11,400	11,400	-	-	-	( <del>-</del>	-	-
Capital Outlay less than \$5,000	30,600	30,600	-	-	-	-	-	-
Employee Uniform Expense	(1,100)	(1,100)	-	-		10 <del>-</del> 2	-	-
Memberships, Licenses & Subsc	36,000	35,800	20,000	20,800	21,200	21,600	22,100	22,500
Mileage and Parking	-	900	-	-	-	-		-
Office Supplies	36,000	36,900	40,000	41,600	42,400	43,300	44,200	45,000
Operating Supplies	3,900	3,800	11,100	11,500	11,800	12,000	12,300	12,500
Repairs & Maintenance-Equipm	1,000	1,000	1,000	1,000	1,100	1,100	1,100	1,100
Training and Internal Meetings	52,700	52,400	50,000	52,000	53,100	54,100	55,200	56,300
Travel	14,000	14,000	15,000	15,600	15,900	16,200	16,600	16,900
4.3 Contractual Services	256,500	257,400	204,900	97,900	114,600	119,400	125,400	177,200
Contractual Operating Services	-	1,000	10,000	10,400	10,500	10,800	11,000	11,300
Contractual Professional Service	256,500	256,400	194,900	87,500	104,100	108,600	114,400	165,900
2.5 Transition Services	425,900	425,200	_	-	-	_	_	_
Contractual Transition Services	425,900	425,200	-	-			-	-
5.1 Capital Program Allocation	(6,300)	(5,700)	_	-	_	-	-	-
Capital Program: Employee Ben	(1,800)	(1,600)	-	-	-	( <del>-</del>	u <del>t</del> o	-
Capital Program: Salaries & Wag	(4,500)	(4,100)	-	-	_	-	-	-
5.2 Shared Services	(36,300)	(36,300)	-	-	_	-	-	-
Shared Services : Salaries & Wag	(27,700)	(27,700)	_	-	-	-	(a)	=
Shared Services: Employee Ben	(8,600)	(8,600)		-				-
3.3 Sewage Service	5,900	5,900	_	-	2		(2)	_
Utilities-Sewage	5,900	5,900	-	-	_			-
3.4 Water Service	-,	200	_	-	2	-	-	-
Utilities-Water	_	200			_	_	_	_



	Sum of FY 2018	FY 2018 Activity	FY 2019 Board	FY 2020 Department	FY 2021 Department	FY 2022 Department	FY 2023 Department	FY 202 Departmen
Expense Category 📑	Amended Budget	thru 06.30.2018	Adopted Budget	Requested	Requested	Requested	Requested	Requeste
884122 - Construction and								
Contract Services	\$ 1,161,900	\$ 1,161,800	\$ 1,193,600	\$ 737,200	\$ 760,400	\$ 763,700	\$ 767,000	\$ 770,300
2.1 Salaries & Wages	476,300	476,300	852,800	554,900	574,800	574,800	574,800	574,800
2.3 Overtime	-	800	-	-	-	-	-	-
2.4 Employee Benefits	120,800	120,600	282,000	168,800	172,100	175,400	178,700	182,000
4.2 Supplies & Other	8,600	7,600	9,300	13,500	13,500	13,500	13,500	13,500
Capital Outlay less than \$5,000	-	-	-	-	100	-	-	-
Memberships, Licenses & Subsc	2,000	1,300	-	3,000	3,000	3,000	3,000	3,000
Mileage and Parking	1,000	700	-	500	500	500	500	500
Office Supplies	-	115	3,700	-		, . <del>.</del>	150	-
Operating Supplies	-	-	4,600	-	-	(*)	-	-
Repairs & Maintenance-Softwar	3,500	3,500	-	-		1.5	-	-
Training and Internal Meetings	2,100	2,100	1,000	7,500	7,500	7,500	7,500	7,500
Travel	-	-	-	2,500	2,500	2,500	2,500	2,500
4.3 Contractual Services	190,000	190,600	49,500	-	_	-	-	_
Contractual Operating Services	190,000	190,600	49,500	-		(1 <u>0</u> )	150	-
2.5 Transition Services	366,200	365,900	-	-	-	-	-	-
Contractual Transition Services	366,200	365,900	-	-		195	-	
884123 - Supply Chain Operations		\$ 758,500			\$ 889,900		\$ 898,200	\$ 902,300
2.1 Salaries & Wages	519,600	518,600	652,900	632,600	665,700	665,700	665,700	665,700
2.3 Overtime	920 200	2,100			200 200	1200 (100)	223 332	0.00
2.4 Employee Benefits	183,200	179,100	211,800	208,100	212,200	216,300	220,300	224,400
4.2 Supplies & Other	2,500	5,700	3,000	12,000	12,000	12,200	12,200	12,200
Mileage and Parking	-	1,400	152					-
Office Supplies	650	1,400	1,000	1,000	1,000	1,100	1,100	1,100
Training and Internal Meetings	2,500	2,600	1,000	10,000	10,000	10,000	10,000	10,000
Travel	-	200	1,000	1,000	1,000	1,100	1,100	1,100
4.3 Contractual Services	53,000	53,000	(90,700)	-	1-	-	-	-
Contractual Operating Services	53,000	53,000	(90,700)					
884124 - Logistics and Materials	\$ 1,341,500	\$ 1,341,500	\$ 1,570,700		\$ 1,771,100	\$ 1,783,500	\$ 1,795,800	\$ 1,824,900
2.1 Salaries & Wages	778,400	775,200	996,400	1,106,700	1,141,600	1,141,600	1,141,600	1,141,600
2.3 Overtime	-	400	-	-		-	-	-
2.4 Employee Benefits	311,800	321,800	366,900	403,800	411,700	419,700	427,600	435,500
4.2 Supplies & Other	237,200	229,100	194,400	197,200	201,300	205,500	209,600	229,400
Advertising	150		7	2,000	2,000	2,000	2,000	2,000
Capital Outlay less than \$5,000	-	100	0.00		10.121	-	-	-
Employee Uniform Expense	10,000	9,300	10,000	10,200	10,400	10,600	10,800	11,000
Memberships, Licenses & Subsc	-	-	4,500	4,600	4,700	4,800	4,900	5,000
Mileage and Parking	950	500		-		-	-	and the second
Office Supplies	-	9,800	3,700	3,800	3,900	4,000	4,100	5,000
Operating Supplies	98,500	98,400	76,100	70,600	72,200	73,800	75,400	82,000
Repairs & Maintenance-Building	112,500	99,800	92,900	94,700	96,600	98,600	100,500	102,000
Repairs & Maintenance-Equipm	10,000	600	1,000	1,000	1,000	1,100	1,100	2,400
Training and Internal Meetings	6,200	7,200	4,200	4,300	4,400	4,500	4,600	9,000
Travel	150	1,500	2,000	4,000	4,100	4,100	4,200	9,000
Tuition Refund	-	2,000	-	2,000	2,000	2,000	2,000	2,000
3.1 Electric	953	-	5	3,000	3,000	3,000	3,000	3,000
Utilities-Electricity	-	-	-	3,000	3,000	3,000	3,000	3,000
3.2 Gas	-	400	500	500	500	500	500	700
Utilities-Gas	-	400	500	500	500	500	500	700
3.3 Sewage Service	14,100	14,100	12,000	12,200	12,500	12,700	13,000	14,000
Utilities-Sewage	14,100	14,100	12,000	12,200	12,500	12,700	13,000	14,000
3.4 Water Service		500	500	500	500	500	500	700
3.4 Water Service								



Expense Category	Sum of FY 2018 Amended Budget	FY 2018 Activity thru 06.30.2018	FY 2019 Board Adopted Budget		FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested	FY 2024 Department Requested
884125 - Enterprise Solutions	\$ 104,700	\$ 104,600	\$ 440,000	\$ 664,000	\$ 667,100	\$ 670,300	\$ 673,400	\$ 676,500
2.1 Salaries & Wages	84,500	84,500	288,300	502,400	502,400	502,400	502,400	502,400
2.3 Overtime	-	1,000		-	1000	-	-	
2.4 Employee Benefits	16,700	15,600	94,700	159,100	162,200	165,400	168,500	171,600
4.2 Supplies & Other	3,500	3,500	57,000	2,500	2,500	2,500	2,500	2,500
Memberships, Licenses & Subsc	-	-	-	1,500	1,500	1,500	1,500	1,500
Operating Supplies	-	-	50,000	-	1000	-	-	-
Training and Internal Meetings	3,500	3,500	5,000	500	500	500	500	500
Travel	-	-	2,000	500	500	500	500	500
884126 - Owners' Representative		•			•			
2.1 Salaries & Wages	56,300	56,600	193,000	532,900	532,900	532,900	532,900	532,900
2.4 Employee Benefits	3,700	3,400	52,200	148,000	150,900	153,800	156,700	159,600
4.2 Supplies & Other	1.0		64,000	26,700	15,600	16,300	16,200	16,900
Memberships, Licenses & Subsc	-	-	-	9,500	-	500	-	500
Mileage and Parking	-		7	500	500	500	500	500
Office Supplies	-	-	100	2,500	500	500	500	500
Operating Supplies	150	1.15	50,000	-	5	-	1.550	1.5
Training and Internal Meetings	-	-	12,000	12,200	12,500	12,700	13,000	13,200
Travel	-	-	2,000	2,000	2,100	2,100	2,200	2,200
2.5 Transition Services	37,000	37,000	-	-	-	-	-	-
Contractual Transition Services	37,000	37,000	-	-	-	-	-	-
5.1 Capital Program Allocation	-	=	-	(78,500)	(78,900)	(79,200)	(79,500)	(79,800)
Capital Program: Salaries & Wag	-	-	-	(78,500)	(78,900)	(79,200)	(79,500)	(79,800)
Grand Total	\$ 13,330,900	\$ 13,086,700	\$ 13,935,600	\$ 14,483,500	\$ 14,644,400	\$ 14,711,600	\$ 14,760,800	\$ 14,921,700