

GLWA

Great Lakes Water Authority



Monthly Financial Report Binder

August 2018

**Presented to the
Great Lakes Water Authority
Audit Committee
on November 16, 2018**

Table of Contents

Budget to Actual -	1
Financial Statements -	6
Financial Report Charts -	12
Financial Operations Key Performance Indicators -	15
Master Bond Ordinance Transfers -	16
Wholesale Billings, Collections, and Receivables -	19
Retail Revenues, Receivables, & Collections -	44
Trust Receipts and Disbursements Report -	49

November 16, 2018

Greetings!

This month, the Great Lakes Water Authority Financial Services Area presents the inaugural Monthly Financial Report Binder. This is the result of significant effort by GLWA to build a solid financial team; identify, implement, and continually improve our financial processes; and work with our partners in Information Technology to build reliable and increasingly advanced systems to support *all* GLWA team members who have a key role in executing sound financial and budgetary practices.

Highlights of this month's report include:

- ✓ Positive FY 2019 financial performance results to date;
- ✓ Identification of areas of potential risk so that we can mitigate those risks;
- ✓ Explanation of how GLWA financial elements fit together; and
- ✓ Identification of progress in financial operations.

This report binder, along with Chief Executive Officer Sue F. McCormick's monthly CEO Report and Key Performance Indicator report provide a full menu of operational and financial reports available online at www.glwater.org.

We thrive on feedback! Please send any comments or suggestions to CFO@glwater.org.

Thank you,

Nicolette N. Bateson, CPA
Chief Financial Officer & Treasurer

Budget to Actual Analysis

The Budget to Actual Analysis report includes the following three tables.

1. Revenue Requirement Budget Basis Analysis
2. Operations Budget – Major Operations & Maintenance Budget Category
3. Operations & Maintenance Budget – Major Budget Categories

Revenue Requirement Budget Basis Analysis

GLWA's annual revenue requirement aligns with a) the basis for calculating customer charges and b) the Master Bond Ordinance flow of funds. The budget basis is not the same as the full accrual basis used for financial reporting although the revenues and operations and maintenance expense are largely on an accrual basis. The primary deviation between the revenue requirement basis to financial reporting basis is the treatment of debt service, legacy pension obligations, and lease related activities. The Revenue Requirement Basis is foundational to GLWA's daily operations, financial plan, and of most interest to key stakeholders.

Table 1A - Water Revenue Requirement Budget and Table 1B - Water Revenue Requirement Budget presents a year-over-year budget to actual performance report. For both systems there were no budget amendments that change the totals. Therefore, only an "amended" budget column is represented. The revenue requirement budget is accounted for in the operations and maintenance fund for each system. Since this report is for August 2018, the pro-rata benchmark is 16.7% (2 of 12 months for the fiscal year).

Items of key interest discussed below are highlighted in gold on the Tables 1 and 2.

1. For both systems, FY 2019 revenues are at or above target and are consistent with the prior year (FY 2018) at the same time.
2. Operations and maintenance expense is within the pro-rata benchmark for FY 2019. Expenses are higher than the current year. While a detail review of activity to date revealed some increase in spending within approved amounts, the more likely reason is that GLWA implanted a monthly close cycle during calendar year 2018. The result is that August 2017 O&M expenses were not accrual basis where August 2018 is accrual basis.
3. The Master Bond Ordinance Commitments are generally funded on a 1/12th basis each month. The debt service amount shown on the table is accounted for on that same basis. In September 2018, the GLWA had a successful bond sale which will provide a positive budget variance. That amendment will be reported in a future month.
4. Overall total expenses are in line with the benchmark.

5. Through August 2018, both the water and sewer system have a positive revenue requirement variance.

Table 1A – Water Revenue Requirement Budget (year-over-year)

System	FY 2018 Amended Budget	FY 2018 Activity thru 08.31.2017	Percent to Date	FY 2019 Amended Budget	FY 2019 Activity thru 8.31.2018	Percent to Date
Water						
Revenues						
Wholesale Customer Charges	\$310,019,800	\$64,340,095	20.8%	\$307,382,500	\$64,526,968	21.0%
Retail Services Revenue	15,130,600	2,521,766	16.7%	20,181,400	3,387,684	16.8%
Other Revenues	36,000	14,668	40.7%	34,300	17,259	50.3%
Investment Earnings	2,932,900	396,758	13.5%	3,802,300	532,743	14.0%
Transfer In - Other	-	27,219	0.0%	-	525,753	0.0%
Total Revenues	\$328,119,300	\$67,300,506	20.5%	\$331,400,500	\$68,990,407	20.8%
Expenses						
Operations & Maintenance Expense	\$121,562,600	\$9,059,088	7.5%	\$121,562,600	\$19,447,242	16.0%
Debt Service	135,631,200	22,605,200	16.7%	134,214,600	22,369,100	16.7%
O&M Legacy Pension Allocation	6,048,000	1,008,000	16.7%	6,048,000	1,008,000	16.7%
Accelerated Legacy Pension Allocation	6,268,300	1,044,717	16.7%	6,268,300	1,044,717	16.7%
Water Residential Assistance Program	1,678,600	279,767	16.7%	1,673,400	278,900	16.7%
Extraordinary Repair & Replacement Deposit	1,452,500	242,083	16.7%	-	-	0.0%
Lease Payment	22,500,000	3,750,000	16.7%	22,500,000	3,750,000	16.7%
Operating Reserve Deposit	323,700	53,950	16.7%	-	-	0.0%
Improvement & Extension Fund Deposit	32,654,400	5,442,400	16.7%	39,133,600	6,522,267	16.7%
Total Expenses	\$328,119,300	\$43,485,205	13.3%	\$331,400,500	\$54,420,225	16.4%
Variance to date		\$ 23,815,301			\$ 14,570,182	

Table 1B – Sewer Revenue Requirement Budget (year-over-year)

System	FY 2018 Amended Budget	FY 2018 Activity thru 08.31.2017	Percent to Date	FY 2019 Amended Budget	FY 2019 Activity thru 8.31.2018	Percent to Date
Sewer						
Revenues						
Wholesale Customer Charges	271,429,300	45,238,600	16.7%	271,296,300	45,825,600	16.9%
Retail Services Revenue	178,969,100	29,828,200	16.7%	181,159,300	30,501,266	16.8%
Bad Debt Expense Recovery	-	-	0.0%	-	-	0.0%
Industrial Waste Control Charges	14,452,700	2,392,629	16.6%	15,000,800	1,581,834	10.5%
Pollutant Surcharges	5,099,000	1,097,997	21.5%	-	1,610,739	0.0%
Other Revenues	467,200	2,000,704	428.2%	485,200	135,392	27.9%
Investment Earnings	2,283,800	479,574	21.0%	4,085,700	863,692	21.1%
Transfer In - Other	-	8,379	0.0%	-	181,203	0.0%
Total Revenues	\$472,701,100	\$81,046,083	17.1%	\$472,027,300	\$80,699,726	17.1%
Expenses						
Operations & Maintenance Expense	191,079,300	13,310,690	7.0%	191,079,400	25,168,125	13.2%
Debt Service	205,859,900	34,309,983	16.7%	214,600,700	35,766,783	16.7%
O&M Legacy Pension Allocation	10,824,000	1,804,000	16.7%	10,824,000	1,804,000	16.7%
Accelerated Legacy Pension Allocation	11,620,700	1,936,783	16.7%	11,620,700	1,936,783	16.7%
Water Residential Assistance Program	2,313,700	385,617	16.7%	2,374,100	395,683	16.7%
Extraordinary Repair & Replacement Deposit	2,283,100	380,517	16.7%	-	-	0.0%
Lease Payment	27,500,000	4,583,333	16.7%	27,500,000	4,583,333	16.7%
Operating Reserve Deposit	341,600	56,933	16.7%	-	-	0.0%
Operating Transfer Out	-	6,226,093	0.0%	-	-	0.0%
Improvement & Extension Fund Deposit	20,878,700	-	0.0%	14,028,400	2,338,067	16.7%
Total Expenses	\$472,701,000	\$62,993,950	13.3%	\$472,027,300	\$71,992,775	15.3%
Variance to date		\$ 18,052,133			\$ 8,706,951	

Operations & Maintenance Budget – Major Budget Categories

The year-over-year benchmark ratio as of August 31 is 16.7% (two months). When comparing FY 2018 to FY 2017 in Table 2, it would appear that the spending has increased. This is true in some instances for special projects (such as sludge removal and disposal for the water operations group). The greater impact, however, is that the Financial Reporting & Accounting Team has implemented a full accrual basis for interim financial statements during FY 2018. This anomaly will decrease as we proceed through FY 2019.

Table 2 - Operations & Maintenance Budget – Major Budget Categories

Budget Category	FY 2018 Amended Budget	FY 2018 Activity thru 08.31.2017	FY 2018 % Year-to-Date at 8.31.2017	FY 2019 Board Adopted Budget	FY 2019 Activity thru 8.31.2018	FY 2019 % Year-to-Date at 8.31.2018
A Water Operations	\$ 68,750,700	\$ 5,811,185	8.5%	\$ 67,154,800	\$ 15,050,943	22.4%
B Wastewater Operations	113,528,800	7,980,392	7.0%	118,318,900	15,603,270	13.2%
C Centralized Services	101,582,500	6,555,673	6.5%	98,485,900	10,678,541	10.8%
D Administrative Services	28,779,900	2,022,528	7.0%	28,682,400	3,282,613	11.4%
Grand Total	\$ 312,641,900	\$ 22,369,778	7.2%	\$ 312,642,000	\$ 44,615,367	14.3%

Alignment of Operations & Maintenance Budget Priorities - Expense Variance Analysis

The purpose of Table 3 is to evaluate whether the actual spend rate within a category is alignment with the budget. Given the effort to develop an accurate budget, a variance is a red flag of a *potential* budget amendment or misalignment of priorities.

Notable items are highlighted in golf in Table 3.

Electricity as a budgeted category is 13.5% of the total, while it represents 20.4% of the year-to-date spend. In this scenario, it is an item that staff is reconciling with year-end accruals. This is a budgetary exception that was pending negotiation with DTE and review with the Board which occurred after August 31, 2018.

Conversely, contractual services is 34.1% of the budget but only 29.3% of the spend-to-date. This is good news as it represents a positive budget variance. However, staff is reviewing activity in that category to identify if there are areas for concern, such as a delayed initiative.

Table 3 – Expense Variance Analysis

Operations & Maintenance Fund Categories	FY 2019 Amended Budget	Percent of Total Budget	FY 2019 Activity thru 8.31.2018	Percent of Total Spend to Date	Variance Ratio (Over)/ Under
2.1 Salaries & Wages	\$ 64,160,400	20.5%	\$ 9,778,377	21.9%	-1.4%
2.2 Workforce Development	740,200	0.2%	119,527	0.3%	0.0%
2.3 Overtime	6,813,300	2.2%	1,228,537	2.8%	-0.6%
2.4 Employee Benefits	22,255,400	7.1%	4,246,880	9.5%	-2.4%
2.5 Transition Services	11,574,600	3.7%	1,636,302	3.7%	0.0%
2.6 Personnel Transition Adjustment	(3,070,500)	-1.0%	-	0.0%	-1.0%
3.1 Electric	42,147,000	13.5%	9,095,279	20.4%	-6.9%
3.2 Gas	6,871,400	2.2%	887,826	2.0%	0.2%
3.3 Sewage Service	2,548,900	0.8%	152,566	0.3%	0.5%
3.4 Water Service	5,783,100	1.8%	598,394	1.3%	0.5%
4.1 Chemicals	16,620,900	5.3%	2,145,602	4.8%	0.5%
4.2 Supplies & Other	29,581,000	9.5%	3,192,468	7.2%	2.3%
4.3 Contractual Services	106,484,700	34.1%	13,094,070	29.3%	4.7%
5.1 Capital Program Allocation	(4,000,000)	-1.3%	(488,843)	-1.1%	-0.2%
5.2 Shared Services	(9,123,100)	-2.9%	(1,247,522)	-2.8%	-0.1%
6.0 Capital Outlay	6,935,600	2.2%	595,153	1.3%	0.9%
7.0 Unallocated Reserve	6,319,100	2.0%	-	0.0%	2.0%
8.0 Employee Benefits Fund	-	0.0%	(419,248)	-0.9%	0.9%
Total	\$ 312,642,000	100.0%	\$ 44,615,368	100.0%	14.3%

The Interim Financial Statements report includes the following four tables.

1. Statement of Net Position - All Funds Combined
2. Statement of Revenues, Expenses and Changes in Net Position – All Funds Combined
3. Supplemental Schedule of Operations & Maintenance Expenses -All Funds Combined
4. Supplemental Schedule of Nonoperating Expenses – All Funds Combined

On a daily basis, the GLWA utilizes four funds. At the macro level for financial reporting purposes, the Great Lakes Water Authority has two primary funds: *Water Fund* and *Sewage Disposal Fund*. These funds represent the combined total of four sub-funds for each system that are used to properly account for sources and uses of funds. Those sub-funds for each system are: *Operations & Maintenance Fund, Improvement & Extension Fund, Construction Bond Fund, and Capital Asset Fund*.

Statement of Net Position – All Funds Combined (Unaudited)

Explanatory notes follow the Statement of Net Position as shown in Table 1 below.

Table 1 – Statement of Net Position - All Funds Combined (Unaudited)
As of August 31, 2018

	Water	Sewage Disposal	Total Business-type Activities
Assets			
Cash (a)	\$ 131,825,000	\$ 152,024,000	\$ 283,849,000
Investments (a)	391,862,000	320,629,000	712,491,000
Accounts Receivable	100,579,000	58,211,000	158,790,000
Due from Other Funds (b)	14,180,000	28,340,000	42,520,000
Other Assets (c)	619,767,000	376,663,000	996,430,000
Cash Held FBO DWSD Advance (d)	-	57,107,000	57,107,000
Capital Assets, net of depreciation	1,768,759,000	2,581,890,000	4,350,649,000
Construction Work in Process	153,124,000	160,862,000	313,986,000
Total Assets	\$ 3,180,096,000	\$ 3,735,726,000	\$ 6,915,822,000
Deferred Inflow (e)	\$ 112,267,000	\$ 217,953,000	\$ 330,220,000
Liabilities			-
Liabilities – Short-Term (f)	\$ 117,066,000	\$ 125,785,000	\$ 242,851,000
Due to Other Funds (b)	-	42,520,000	42,520,000
Other Liabilities (g)	2,699,000	6,085,000	8,784,000
Cash Held FBO DWSD (d)	14,081,000	-	14,081,000
Liabilities – Long-Term (h)	3,147,848,000	3,833,256,000	6,981,104,000
Total Liabilities	\$ 3,281,694,000	\$ 4,007,646,000	\$ 7,289,340,000
Deferred Outflow (e)	\$ 65,998,000	\$ 59,401,000	\$ 125,399,000
Net Position (Deficit) (i)	\$ (55,329,000)	\$ (113,368,000)	\$ (168,697,000)

Note: Totals may be off due to rounding.

Footnotes to Statement of Net Position

- a. *Cash and Investments* include restricted amounts.
- b. *Due from Other Funds* and *Due to Other Funds* is shown at the gross level for sub-fund activity.
- c. *Other Assets* primarily consists of the contractual obligation receivable from DWSD related to reimbursement of bonded indebtedness for to local system improvements.
- d. *Cash Held FBO Advance (for benefit of) DWSD* and *Cash Held FBO DWSD* represents the net difference between DWSD retail cash received from customers net financial commitments as outlined in the Master Bond Ordinance.
- e. *Deferred Inflow* and *Deferred Outflow* relate to financing activity and GLWA's share of the legacy General Retirement System (GRS) pension obligation.
- f. *Liabilities - Short-term* include accounts payable, retainage payable, and certain accrued liabilities. Some items, such as compensated absences and worker's compensation, are reviewed periodically but are only adjusted on an interim basis if there is a material change.
- g. *Other Liabilities* account for the cash receipts set aside for the Budget Stabilization Fund and the Water Residential Assistance Program.
- h. *Liabilities - Long-term* include bonds payable, lease payable, and legacy GRS pension liabilities.
- i. *Net Position (Deficit)* is defined by the accounting standards as the residual of all other elements presented in a statement of financial position. It is the difference between (a) assets and deferred outflows of resources and (b) liabilities and deferred inflows of resources. A net deficit occurs when the liabilities and deferred inflows exceed assets and deferred outflows. GLWA's net deficit is largely driven by an increase in depreciation expense as a result of the increase in the acquisition valuation approach for recording capital asset values in the opening Statement of Net Position on January 1, 2016. Efforts are underway to evaluate the net operating effect of this matter over the long term.

Statement of Revenues, Expenses and Changes in Net Position – All Funds Combined

This statement, shown in Table 2, is presented in summary format. Supplemental schedules follow the analysis: Table 3 – Operations and Maintenance Expenses Supplemental Schedule and Table 4 – Supplemental Schedule of Nonoperating Expenses.

It should be noted that the FY 2018 year-end close and audit are nearing completion in November 2018. The impact of the reversal of year-end closing accruals was not fully estimable at the time of the August 2018 month-end close. In addition, the accrual basis of

revenues and operations and maintenance expense vary from the revenue requirement basis presented elsewhere in the August 2018 Financial Report Binder.

Water Fund

- ✓ The increase in Water Fund Net Position is \$8 million.
- ✓ Wholesale water customer charges of \$65 million account for 95.0% of Water System revenues.
- ✓ Operating expenses of \$44 million represent 64.4% of total operating revenue. Depreciation is the largest operating expense at \$12 million or 53.2% of operating expense.
- ✓ Operating income after operating expenses (including depreciation) equals \$24 million or 35.6% of operating revenue.
- ✓ The largest category within nonoperating activities is interest expense of \$23 million.

Sewage Disposal Fund

- ✓ The increase in Sewer Net Position was \$2 million.
- ✓ Wholesale customer charges of \$46 million account for 57.5% of Sewer System revenues. Wholesale customer charges are billed one-twelfth each month based on an agreed-upon historical average “share” of each customer’s historical flows which are formally revisited every five years. The result is no revenue shortfall or overestimation.
- ✓ Local system (DWSD) charges of \$31 million account for 38.3% of total operating revenues. These are also billed at one-twelfth of the annual revenue requirement.
- ✓ Operating expenses of \$54 million represent 68.3% of total operating revenue. Depreciation is the largest operating expense at \$29 million or 53.2% of total operating expense.
- ✓ Operating income after operating expenses (including depreciation) equals \$25 million or 31.7% of operating revenue.
- ✓ The largest category within nonoperating activities is interest expense of \$27 million.

**Table 2 – Statement of Revenues, Expenses and Changes in Net Position
 – All Funds Combined (Unaudited)
 For the Two Months ended August 31, 2018**

	Water	Percent of Revenue		Sewage Disposal	Percent of Revenue	Change in Net Position
Revenue						
Wholesale customer charges	\$ 64,527,000	95.0%	\$	45,826,000	57.5%	110,353,000
Local system charges	3,388,000	5.0%		30,501,000	38.3%	33,889,000
Industrial waste charges	-			1,611,000	2.0%	1,611,000
Other revenue	13,000	0.0%		104,000	0.1%	117,000
Pollutant surcharges	-			1,611,000	2.0%	1,611,000
Bad Debt Recovery	-			-		-
Total Revenues	\$ 67,928,000	100.0%	\$	79,653,000	100.0%	\$ 147,581,000
Operating Expenses						
Operations and Maintenance Expenses	19,123,000	28.2%		25,435,000	31.9%	44,558,000
Depreciation	24,602,000	36.2%		28,974,000	36.4%	53,576,000
Total Operating Expenses	43,725,000	64.4%		54,409,000	68.3%	98,134,000
Operating Income	24,203,000	35.6%		25,244,000	31.7%	49,447,000
Total Nonoperating (Revenue)/Expense	16,088,000	23.7%		23,438,000	29.4%	39,526,000
Change in Net Position - Increase (Decrease)	8,115,000	11.9%		1,806,000	2.3%	9,921,000
Net Position (Deficit), Beginning of year	(63,444,000)			(115,174,000)		(178,618,000)
Net Position (Deficit), End of Year	\$ (55,329,000)			\$ (113,368,000)		\$ (168,697,000)

Totals may be off due to rounding.

Supplemental Schedule of Operations & Maintenance Expenses

This Supplemental Schedule of Operations & Maintenance Expenses (O&M) schedule is shown on the next page in Table 3.

- ✓ Core expenses for water and sewage disposal systems is utilities (24.1% of total O&M expenses) and chemicals (4.8%).
- ✓ Personnel (37.2%) of total O&M expenses include all salaries, wages, and benefits for employees as well as staff augmentation contracts that fill a vacant position (contractual transition services).
- ✓ Contractual services (29.4%) includes
 - Water System costs of sludge removal and disposal services at the Northeast, Southwest and Springwells Water Treatment Plants (approximately \$2.0 million);

- Sewage Disposal System costs for the operation and maintenance of the biosolids dryer facility (approximately \$2.3 million); and
- Centralized and Administrative contractual costs allocated to both systems for information technology, building maintenance, and other services.

**Table 3 – Supplemental Schedule of Operations & Maintenance Expenses
– All Funds Combined (Unaudited)
For the Two Months ended August 31, 2018**

Expenditure	Water	Percent of Total	Sewage Disposal System	Percent of Total	Combined	Percent of Total
Chemicals	\$ 985,000	5.2%	\$ 1,161,000	4.6%	\$ 2,146,000	4.8%
Contractual services	4,428,000	23.2%	8,666,000	34.1%	13,094,000	29.4%
Personnel						
Salaries & Wages	4,722,000	24.7%	6,812,000	26.8%	11,534,000	25.9%
Overtime	677,000	3.5%	551,000	2.2%	1,228,000	2.8%
Benefits	2,120,000	11.1%	1,708,000	6.7%	3,828,000	8.6%
Total Personnel	7,519,000	39.3%	9,071,000	35.7%	16,590,000	37.2%
Supplies and other	616,000	3.2%	3,114,000	12.2%	3,730,000	8.4%
Utilities						
Electric	7,060,000	36.9%	2,036,000	8.0%	9,096,000	20.4%
Gas	28,000	0.1%	860,000	3.4%	888,000	2.0%
Sewage	42,000	0.2%	110,000	0.4%	152,000	0.3%
Water	-	0.0%	598,000	2.4%	598,000	1.3%
Total Utilities	7,130,000	37.3%	3,604,000	14.2%	10,734,000	24.1%
Capital program allocation	(316,000)	-1.7%	(173,000)	-0.7%	(489,000)	-1.1%
Shared services allocation	(1,239,000)	-6.5%	(8,000)	0.0%	(1,247,000)	-2.8%
Operations and Maintenance Expenses	\$ 19,123,000	100.0%	\$ 25,435,000	100.0%	\$ 44,558,000	100.0%

Totals may be off due to rounding.

Supplemental Schedule of Nonoperating Expenses – All Funds Combined

The Supplemental Schedule of Nonoperating Expenses – All Funds Combined is shown on Table 4 on the next page. Significant categories are noted below.

- ✓ Interest expense, the largest category of nonoperating expenses, is due to three sources below:
 - Bonded debt;
 - Lease obligation for the regional assets from the City of Detroit; and
 - Other obligations such as an obligation payable to the City of Detroit for an allocation BC Notes related to assumed DWSD liabilities; acquisition of raw water rights related to KWA Pipeline.
- ✓ Interest income on contractual obligation from DWSD.
- ✓ Investment earnings

Table 4 – Supplemental Schedule of Nonoperating Expenses
– All Funds Combined (Unaudited)
For the Two Months ended August 31, 2018

Nonoperating (Revenue)/Expense	Water	Sewage Disposal	Combined
Interest income contractual obligation	\$ (3,807,000)	\$ (2,503,000)	\$ (6,310,000)
Investment earnings	(2,465,000)	(2,484,000)	(4,949,000)
Other nonoperating revenue	(4,000)	(3,000)	(7,000)
Interest expense			
Bonded debt	22,814,000	19,280,000	42,094,000
Lease obligation	3,616,000	2,959,000	6,575,000
Other obligations	265,000	829,000	1,094,000
Total interest expense	<u>26,695,000</u>	<u>23,068,000</u>	<u>49,763,000</u>
Other nonoperating expense	221,000	408,000	629,000
Amortization, issuance costs, debt	<u>(924,000)</u>	<u>1,324,000</u>	<u>400,000</u>
Total Nonoperating (Revenue)/Expense	<u>\$ 19,716,000</u>	<u>\$ 19,810,000</u>	<u>\$ 39,526,000</u>

Financial Activity Charts

Chart 1 – Capital Outlay

Capital Outlay spend is **\$1,738,228** through August 31, 2018. The allocation is shown in the chart below.

Capital Outlay Expenditures by Department as of August 31, 2018

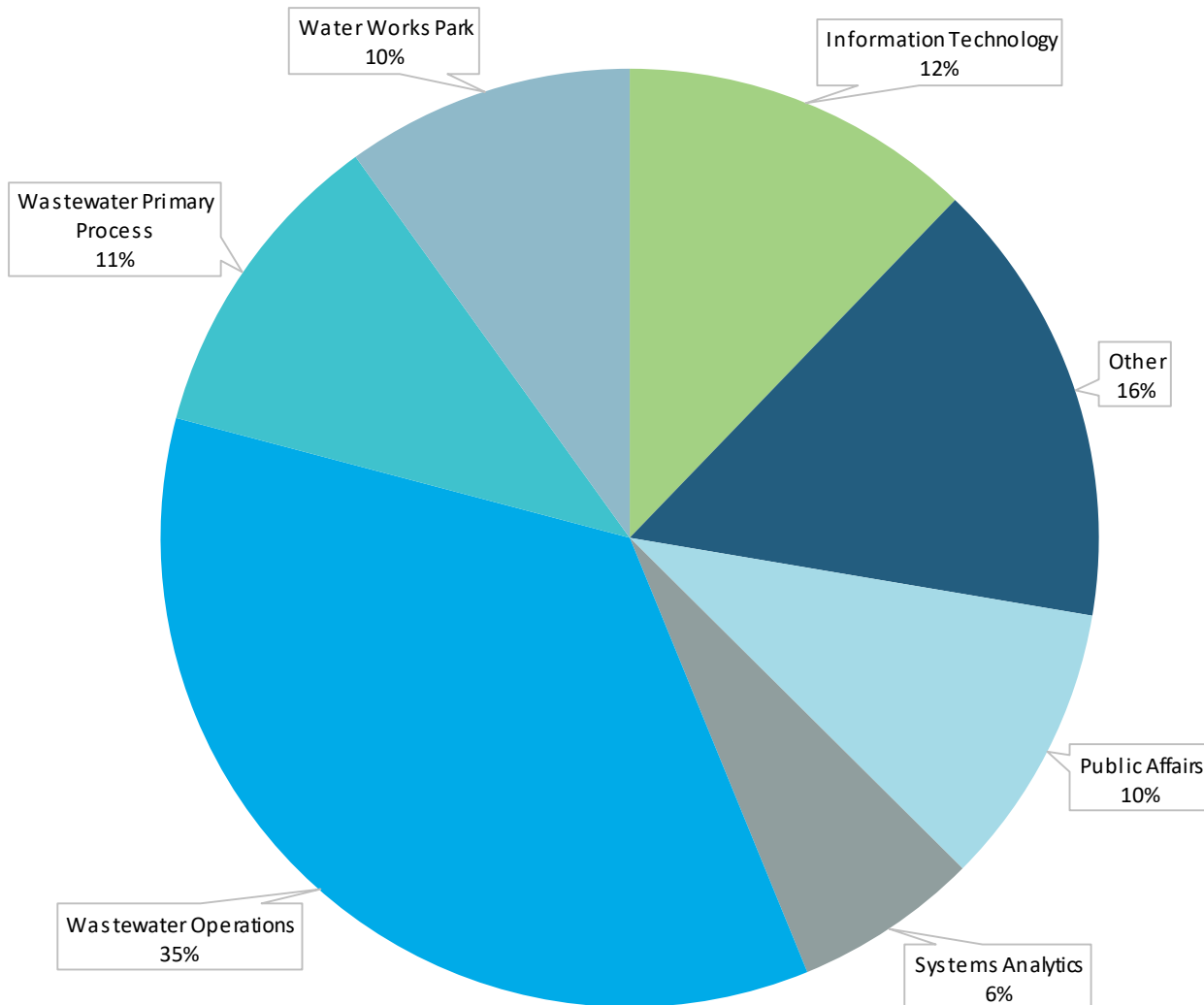
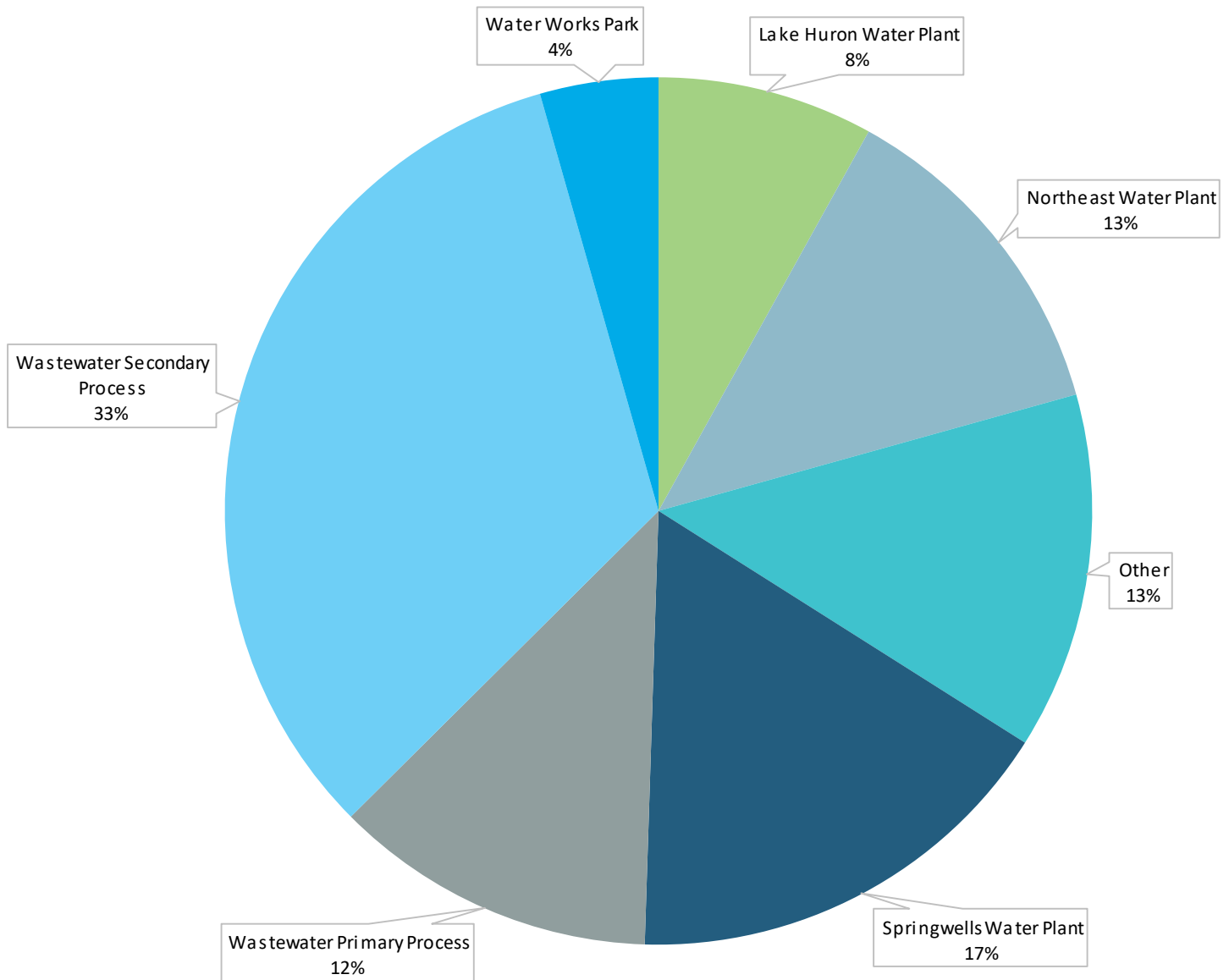


Chart 2 - Chemical Spend

Chemical spend is **\$2,145,602** through August 31, 2018. The allocation is shown in the chart below.

Chemical Expenditure by Department as of August 31, 2018

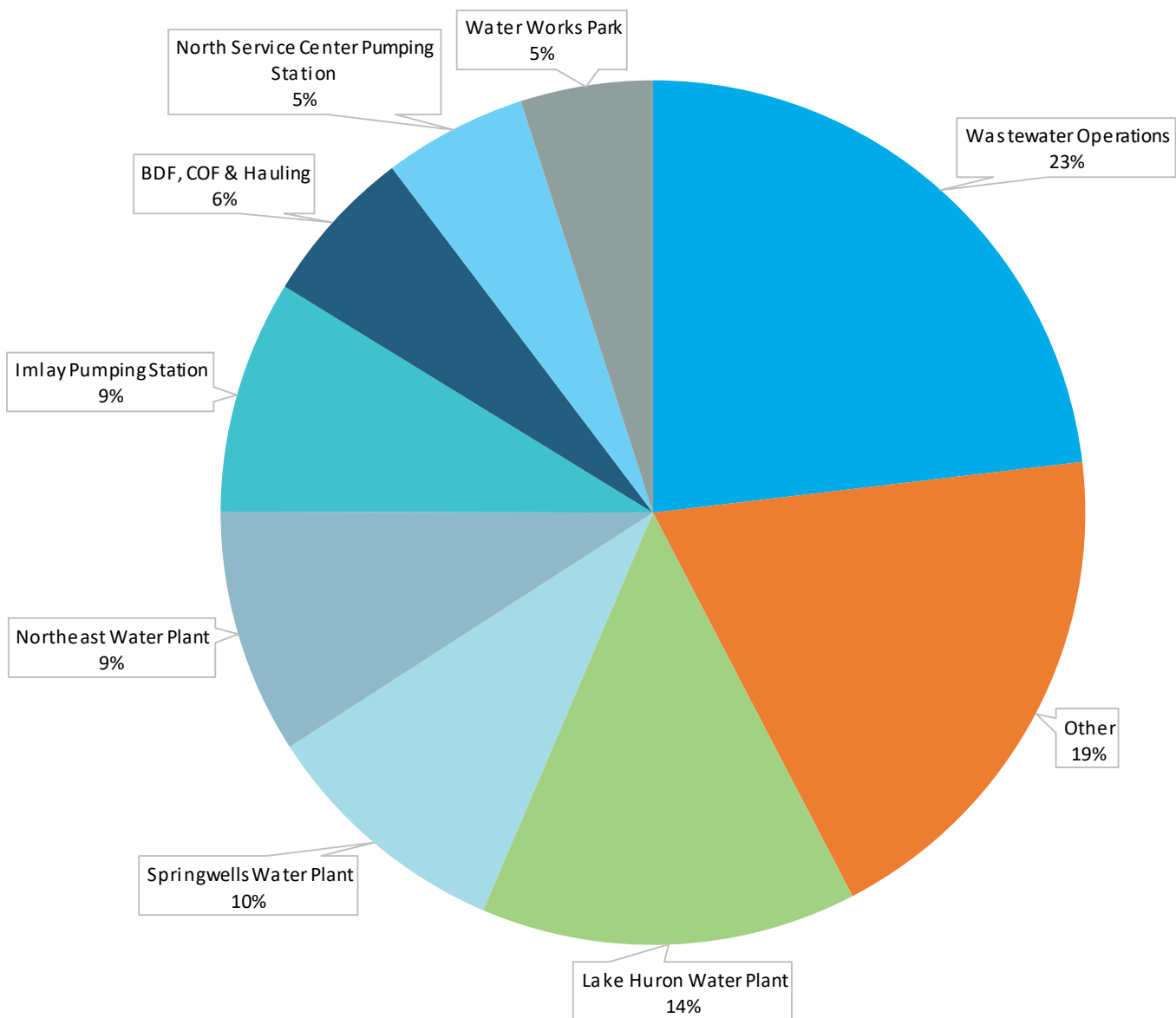


"Other" includes CSO, portions of the Wastewater process and two departments from Water.

Chart 3 - Utility spend

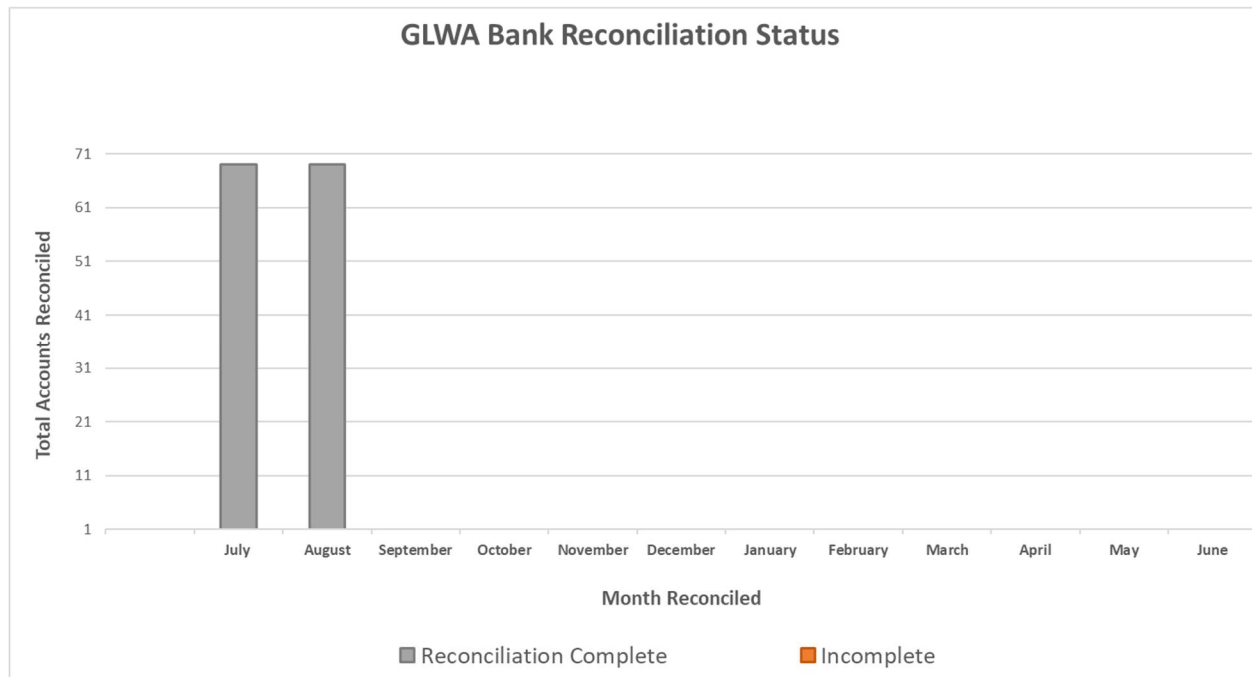
Utility spend is **\$10,734,063** through August 31, 2018. The allocation is shown in the chart below.

Utility Expenditures by Department as of August 31, 2018



Bank Reconciliation Status

A measure of the progress made in the month-end close process which includes bank reconciliations completed soon after month end.



This report includes the following:

1. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by GLWA
2. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by DWSD

MBO Transfers to Accounts Held by GLWA

GLWA Transfers: The Treasury Group completes required MBO transfers on the first business day of each month. Treasury completes these transfers in accordance with the Great Lakes Water Authority (GLWA) and Detroit Water & Sewerage Department (DWSD) budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually.

Monthly transfers for Operations & Maintenance, Pension, and Water Residential Assistance Program (WRAP) are one-twelfth of the annual, budgeted amount. Budget stabilization should not require additional funding due to new, baseline funding levels established as part of the April 2018 Memorandum of Understanding but is included to reflect historical activity. Treasury completes annual Extraordinary Repair & Replacement transfers as directed based on budget and year-end fund status.

Table 1 – GLWA Water Transfers reflects the required transfers for FY 2019 completed through August 1, 2018. The total transfers for FY 2016, FY 2017, and FY 2018 are also included to reflect historical activity. Since January 1, 2016, MBO transfers for Water totaling \$387,340,322 have been transferred to accounts held by GLWA.

Table 2 – GLWA Sewer Transfers reflects the required transfers for FY 2019 completed through August 1, 2018. The total transfers for FY 2016, FY 2017, and FY 2018 are also included to reflect historical activity. Since January 1, 2016, MBO transfers for Sewer totaling \$596,924,878 have been transferred to accounts held by GLWA.

Table 1 – GLWA Water Transfers

	WATER						Total Water
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	
Total FY 2016	\$71,052,000	\$6,037,100	\$10,297,200	\$1,983,300	\$2,326,900	\$606,000	\$92,302,500
Total FY 2017	111,879,600	6,037,200	10,297,200	2,077,200	360,000	-	130,651,200
Total FY 2018	121,562,604	6,048,000	10,695,696	2,159,400	-	-	140,465,700
FY 2019							
July 2018	10,393,475	504,000	891,308	171,683	-	-	11,960,466
August 2018	10,393,475	504,000	891,308	171,683	-	-	11,960,466
Total FY 2019	\$20,786,950	\$1,008,000	\$1,782,616	\$343,366	\$0	\$0	\$23,920,932
Total Water Since Jan 1 2016	\$325,281,154	\$19,130,300	\$33,072,712	\$6,563,266	\$2,686,900	\$606,000	\$387,340,332

Table 2 – GLWA Sewer Transfers

	SEWER						
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Water
Total FY 2016	\$100,865,600	\$10,838,400	\$14,025,800	\$2,523,400	\$5,591,700	\$779,600	\$134,624,500
Total FY 2017	175,858,800	10,838,400	14,026,800	2,654,400	2,654,400	-	206,032,800
Total FY 2018	191,079,396	10,824,000	14,687,496	2,760,804	-	-	219,351,696
FY 2019							
July 2018	16,093,500	902,000	1,223,958	238,483	-	-	18,457,941
August 2018	16,093,500	902,000	1,223,958	238,483	-	-	18,457,941
Total FY 2019	\$32,187,000	\$1,804,000	\$2,447,916	\$476,966	\$0	\$0	\$36,915,882
Total Sewer Since Jan 1 2016	\$499,990,796	\$34,304,800	\$45,188,012	\$8,415,570	\$8,246,100	\$779,600	\$596,924,878

MBO Transfers to Accounts Held by DWSD

DWSD Transfers: The Treasury Group completes required MBO transfers on the first business day of each month. Treasury completes these transfers in accordance with the GLWA and DWSD budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually. GLWA Public Finance communicates planned transfers in advance of the first business day of each month and GLWA Treasury sends confirmation of transfers made to DWSD Treasury.

Monthly transfers for Operations & Maintenance and Pension are one-twelfth of the annual, budgeted amount. The annual lease payment, as stated in the Water & Sewer Lease Agreements, is \$22,500,000 for Water and \$27,500,000 for Sewer. The monthly lease transfer is one-twelfth of the amount as stated in the Lease agreements unless otherwise designated by DWSD. Per Section 3.5 of the Lease, the Lease payment may be used for (a) bond principal and interest for Local System Improvements, (b) bond principal and interest for the City's share of common-to-all System Improvements, and (c) Local System improvements.

Table 3 – DWSD Water Transfers reflects the required transfers for FY 2019 completed through August 1, 2018. The total transfers for FY 2016, FY 2017, and FY 2018 are also included to reflect historical activity. For FY 2016, \$2,326,900 of the lease payment was directed to offset a portion of debt service.

For FY 2018, a DWSD budget adjustment resulted in a reduction in the lease transfer of \$1,875,000. For FY 2019, \$3,949,200 of the lease payment will be directed to offset a portion of debt service. This offset will be recognized over the year as a reduction in the monthly transfer amount. Since January 1, 2016, MBO transfers for Water totaling \$180,654,754 have been transferred to accounts held by DWSD.

Table 4 – DWSD Sewer Transfers reflects the required transfers for FY 2019 completed through August 1, 2018. The total transfers for FY 2016, FY 2017, and FY 2018 are also included to reflect historical activity. For FY 2016, \$19,991,500 of the lease payment was directed to offset a portion of debt service.

For FY 2018, a DWSD budget adjustment resulted in a reduction in the lease transfer of \$9,166,664. For FY 2019, \$4,864,00 of the lease payment will be directed to offset a portion of debt service. This offset will be recognized over the year as a reduction in the monthly transfer amount. Since January 1, 2016, MBO transfers for Sewer totaling \$199,351,778 have been transferred to accounts held by DWSD.

Table 3 – DWSD Water Transfers

WATER				
	Operations & <u>Maintenance</u>	<u>Pension</u>	Lease Payment (<u>I&E Fund</u>)	<u>Total Water</u>
Total FY 2016	\$ 26,185,600	\$ 4,262,700	\$ 20,173,100	\$ 50,621,400
Total FY 2017	\$ 33,596,400	\$ 4,262,400	\$ 22,500,000	\$ 60,358,800
Total FY 2018	\$ 35,059,704	\$ 4,272,000	\$ 20,625,000	\$ 59,956,704
FY 2019				
July 2018	\$ 2,957,025	\$ 356,000	\$ 1,545,900	\$ 4,858,925
August 2018	2,957,025	356,000	1,545,900	4,858,925
Total FY 2019	\$ 5,914,050	\$ 712,000	\$ 3,091,800	\$ 9,717,850
Total Water Since Jan 1 2016	\$ 100,755,754	\$ 13,509,100	\$ 66,389,900	\$ 180,654,754

Table 4 – DWSD Sewer Transfers

SEWER				
	Operations & <u>Maintenance</u>	<u>Pension</u>	Lease Payment (<u>I&E Fund</u>)	<u>Total Sewer</u>
Total FY 2016	\$ 19,774,300	\$ 2,861,800	\$ 7,508,500	\$ 30,144,600
Total FY 2017	\$ 41,535,600	\$ 2,862,000	\$ 27,500,000	\$ 71,897,600
Total FY 2018	\$ 60,517,992	\$ 2,856,000	\$ 18,333,336	\$ 81,707,328
FY 2019				
July 2018	\$ 5,676,792	\$ 238,000	\$ 1,886,333	\$ 7,801,125
August 2018	5,676,792	238,000	1,886,333	7,801,125
Total FY 2019	\$ 11,353,584	\$ 476,000	\$ 3,772,666	\$ 15,602,250
Total Sewer Since Jan 1 2016	\$ 133,181,476	\$ 9,055,800	\$ 57,114,502	\$ 199,351,778

The Monthly Wholesale Billings, Receivables, & Collections Report includes the following.

1. Wholesale Water Billings and Collections
2. Wholesale Sewer Billings and Collections
3. City of Highland Park Billings and Collections
4. Wholesale Accounts Receivable Aging Report

Wholesale Water Billings and Collections

Wholesale Water Contracts: Great Lakes Water Authority (GLWA) provides wholesale water service to 87 member-partners through a variety of service arrangements.

Service Arrangement Type*

Model Contract	80
Emergency	1
Older Contracts	6
Total	<u>87</u>

** Note: Services are provided to the Detroit Water & Sewerage Department (DWSD) via a Water and Sewer Services Agreement (WSSA). See the "Retail Revenues, Receivables, and Collections Report" section of this monthly report.*

Wholesale Water Billing Basis: Beginning with FY 2016, wholesale water charges were restructured to create a more stable revenue stream by using a historical rolling average to project customer volumes which accounts for 40% of the monthly charges and 60% of the annual customer revenue requirement as a monthly fixed charge.

Table 1 - Wholesale Water Billings shows the FY 2019 water billed usage and revenues. As of August 31, 2018, the billed usage was at 104.47% of budget and billed revenue at 102.53% of budget. Billings and usage from the City of Flint *are* included as they were assumed in the FY 2019 Budget.

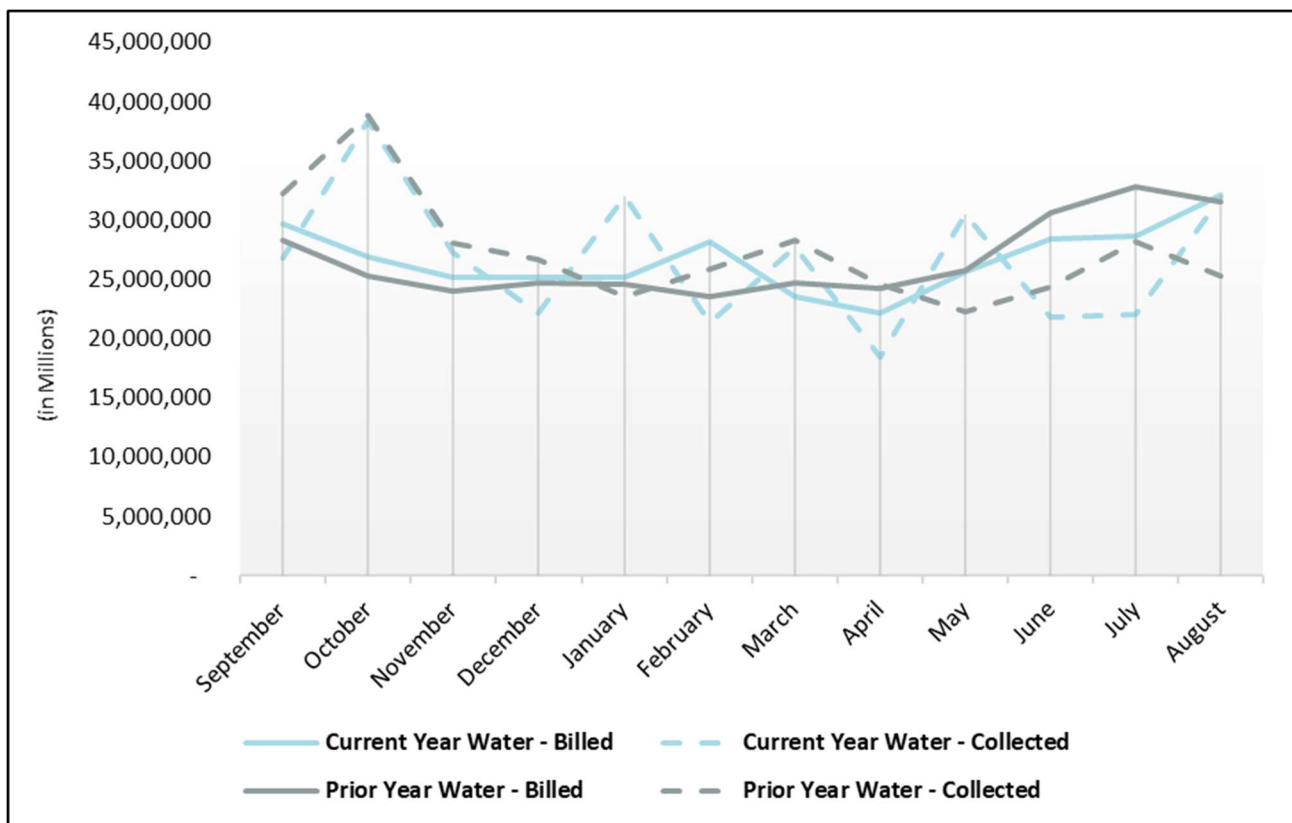
Wholesale Water Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Chart 1 - Wholesale Water Collections shows collections by month for the past 12 months compared to billings for the same calendar months to depict net cashflow from water charges for that time period. Variability in collections in the current year are associated with timing of the billing cycle. Bills for December, February and August were posted later than usual due to holiday conflicts and higher volumes of meter reads requiring review (due to meter issues and water main breaks). While at times unavoidable, the GLWA billing team is identifying steps to prevent delays wherever possible.

Table 1 – FY 2019 Wholesale Water Billings Report

WHOLESALE WATER CUSTOMERS*								
Month	FY 2019 - Budget			FY 2019 - Actual			Variance	
	Volume	Revenue	Unit	Volume	Revenue	Unit	Volume	Revenue
	Mcf	\$	\$/Mcf	Mcf	\$	\$/Mcf	Mcf	\$
July	1,632,120	30,347,500	18.59	1,800,256	32,122,653	17.84	168,136	1,775,153
August	1,518,130	29,405,800	19.37	1,490,896	29,144,135	19.55	(27,234)	(261,665)
September	1,354,440	27,424,800	20.25					
October	1,091,580	24,826,000	22.74					
November	912,260	23,273,500	25.51					
December	1,002,110	23,912,600	23.86					
January	1,019,240	24,133,400	23.68					
February	885,170	23,021,600	26.01					
March	1,000,060	23,933,100	23.93					
April	952,450	23,568,200	24.74					
May	1,116,620	25,296,500	22.65					
June	1,557,060	29,624,900	19.03					
Total	14,041,240	308,767,900	21.99	3,291,152	61,266,789	18.62	140,902	1,513,489
Subtotals ytd	3,150,250	59,753,300	18.97	3,291,152	61,266,789	18.62	140,902	1,513,489
Achievement of Budget				104.47%	102.53%			

* Includes Revenues and Usage from the City of Flint.

Chart 1 - Wholesale Water Collections


GLWA Wholesale Sewer Billings and Collections

Wholesale Sewer Contracts: GLWA provides wholesale sewer service to 18 member-partners via multiple service arrangements.

Service Arrangement Type**

Model Contract	11
Emergency	0
Older Contracts	7
Total	<u>18</u>

**** Note:** Services are provided to the Detroit Water & Sewerage Department via a Water and Sewer Services Agreement (WSSA). See the “Retail Revenues, Receivables, and Collections Report” section of the monthly report.

Wholesale Sewer Billing Basis: Beginning in FY 2015, the “sewer rate simplification” initiative was applied which provides for a stable revenue stream and predictability for our member partners. Wholesale sewer customers are billed a fixed monthly fee based upon the annual revenue requirement.

Table 2 - Wholesale Sewer Billings shows the FY 2019 sewer billed revenue. Consistent with expectations as a result of sewer rate simplification, billed revenue is at 100.00% of budget through August 31, 2018.

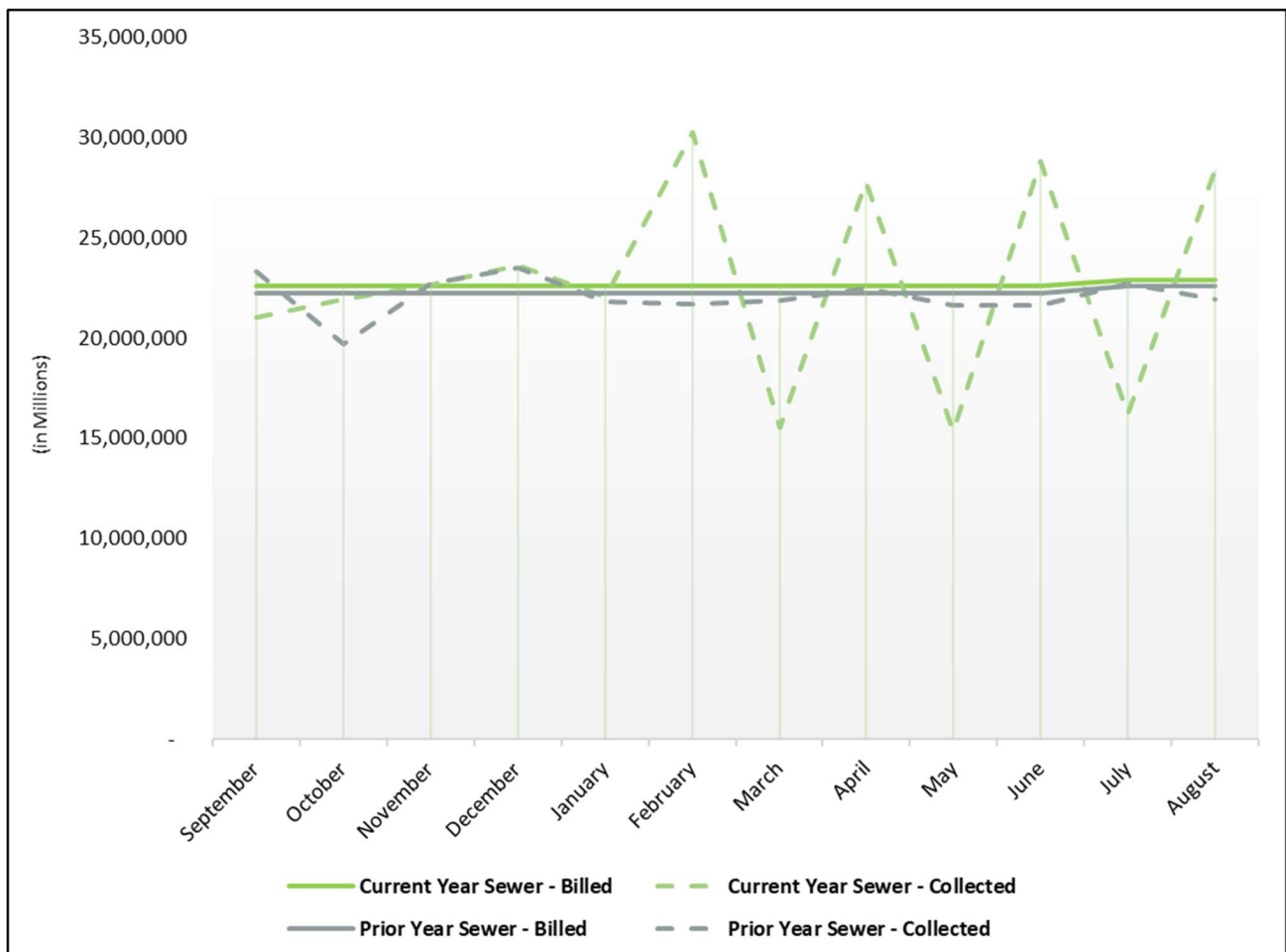
Wholesale Sewer Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA’s Master Bond Ordinance.

Chart 2 - Wholesale Sewer Collections shows collections by month for the past 12 months compared to billings for the same calendar months to depict net cashflow from wholesale sewer charges for that time period.

The shift in wholesale sewer collection patterns is largely attributable to the timing of payments received from one customer. Starting in February 2018, Wayne County’s (Rouge Valley, NE Wayne and Wayne County #3) payments were received just after the first of the calendar month for one invoice (showing no collection for the previous month) and the subsequent invoice was paid in the same calendar month. This pattern has continued through August 31, 2018. At no time during this period has Wayne County been over 45 days delinquent in its sewer payments to GLWA. Given the payment amount of \$6.8 million, this produces a “spiking” effect on the chart.

Table 2 – FY 2019 Wholesale Sewer Billings Report

WHOLESALE SEWER CUSTOMERS						
Month	FY 2019 - Budget		FY 2019 - Actual		Variance	
	Volume Mcf	Revenue \$	Volume Mcf	Revenue \$	Volume Mcf	Revenue \$
July	N/A	22,912,800	N/A	22,912,800	N/A	-
August	N/A	22,912,800	N/A	22,912,800	N/A	-
September	N/A	22,912,800	N/A		N/A	
October	N/A	22,912,800	N/A		N/A	
November	N/A	22,912,800	N/A		N/A	
December	N/A	22,912,800	N/A		N/A	
January	N/A	22,912,800	N/A		N/A	
February	N/A	22,912,800	N/A		N/A	
March	N/A	22,912,800	N/A		N/A	
April	N/A	22,912,800	N/A		N/A	
May	N/A	22,912,800	N/A		N/A	
June	N/A	22,912,800	N/A		N/A	
Total		274,953,600		45,825,600		0
Subtotals ytd		45,825,600		45,825,600		0
Achievement of Budget				100.00%		

Chart 2 - Wholesale Sewer Collections


City of Highland Park Billings and Collections

The City of Highland Park is provided water service pursuant to an emergency service basis. Sewer service is provided pursuant to a 1982 amended contract which indicates that the parties are guided in their legal relationship by a Michigan Supreme Court decision from 1949.

As of August 31, 2018, Highland Park had a delinquent balance of \$39.4 million, including \$31.4 million for wastewater treatment services, \$1.6 million for industrial waste control services, and \$6.3 million for water supply services.

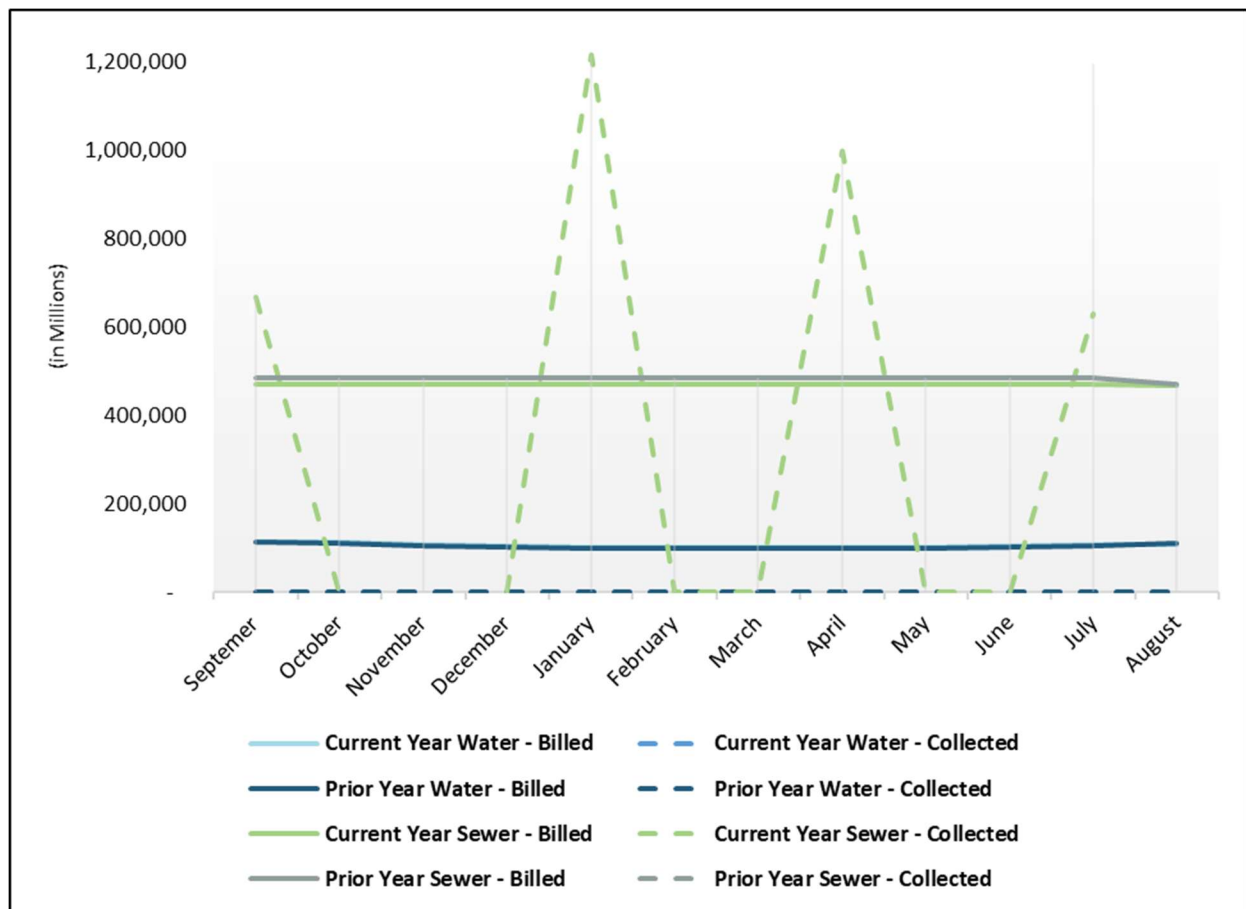
Table 3 - City of Highland Park Billings and Collections Since 2012 provides a life-to-date summary of the billing and collection history for Highland Park from June 30, 2012 to August 31, 2018. Please note the numbers below reflect the month the billing was sent and not the month the service was provided.

Chart 3 - City of Highland Park Billings and Collections – Past Twelve Months is provided to depict Highland Park's most current performance specific to Water and Sewer. Payments received-to-date are applied to Sewer at this time.

Table 3 - City of Highland Park Billings and Collections Since 2012

	Water	Sewer	IWC	Cumulative Total
June 30, 2012 Balance	\$ -	\$ 10,207,956	\$ 852,987	\$ 11,060,943
FY 2013 Billings	485,887	4,987,635	154,444	5,627,966
FY 2013 Payments	(65,652)	(2,206,211)	-	(2,271,863)
June 30, 2013 Balance	\$ 420,235	\$ 12,989,380	\$ 1,007,431	\$ 14,417,046
FY 2014 Billings	1,004,357	6,980,442	161,951	8,146,750
FY 2014 Payments	-	(1,612,633)	-	(1,612,633)
June 30, 2014 Balance	\$ 1,424,592	\$ 18,357,189	\$ 1,169,382	\$ 20,951,163
FY 2015 Billings	1,008,032	5,553,123	165,739	6,726,894
FY 2015 Payments	-	(1,444,623)	-	(1,444,623)
June 30, 2015 Balance	\$ 2,432,625	\$ 22,465,689	\$ 1,335,121	\$ 26,233,435
FY 2016 Billings	1,157,178	5,612,167	106,431	6,875,776
FY 2016 Payments	-	(2,022,335)	-	(2,022,335)
June 30, 2016 Balance	\$ 3,589,803	\$ 26,055,521	\$ 1,441,551	\$ 31,086,875
FY 2017 Billings	1,245,267	5,802,000	101,999	7,149,265
FY 2017 Payments	-	(2,309,186)	-	(2,309,186)
June 30, 2017 Balance	\$ 4,835,070	\$ 29,548,335	\$ 1,543,550	\$ 35,926,954
FY 2018 Billings (12 Months)	1,277,179	5,657,101	80,472	7,014,752
FY 2018 Payments (12 Months)	-	(4,108,108)	-	(4,108,108)
June 30, 2018 Balance	\$ 6,112,248	\$ 31,097,327	\$ 1,624,022	\$ 38,833,597
FY 2019 Billings (2 Months)	218,219	938,100	10,986	1,167,305
FY 2019 Payments (2 Months)	-	(629,017)	-	(629,017)
Balance as of July 31, 2018	\$ 6,330,467	\$ 31,406,410	\$ 1,635,009	\$ 39,371,886

Chart 3 - City of Highland Park Water & Sewer Billings and Collections – Past Twelve Months



Note: Current and prior year water billing amounts are very close so the two lines are nearly overlapping when reviewed at this high-level.

Water & Sewer System Wholesale Accounts Receivable Aging Report

The detailed accounts receivable aging is attached to this report. This report reflects the wholesale receivables only and does not include DWSD. (Note: percentages vary from 100% due to rounding.)

Table 4 - Wholesale Accounts Receivable Aging Report Summary is a summary of the total, current and non-current receivables by category as of August 31, 2018.

Table 5 - Wholesale Accounts Receivable Aging Report, Net of Highland Park is the same summary *without* the past due balances for the City of Highland Park.

Table 6 - Wholesale Accounts Receivable Aging Report, Net of Highland Park and WTUA is a summary *without* the past due balances for the City of Highland Park and net of pending credits for certain Western Township Utilities Authority (WTUA). Credits for billed services are pending receipt of a final agreement from Wayne County to effectuate a transfer retroactive to July 1, 2018.

Table 4 - Wholesale Accounts Receivable Aging Report Summary

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 45,094,133.76	\$ 38,954,410.27	\$ 133,423.84	\$ 101,149.16	\$ 5,905,150.49
Sewer	\$ 47,102,010.28	\$ 14,110,399.50	\$ 2,523,300.00	\$ 470,200.00	\$ 29,998,110.78
IWC	\$ 2,898,694.39	\$ 502,738.94	\$ 132,867.60	\$ 64,840.04	\$ 2,198,247.81
Pollutant Surcharge	\$ 1,781,434.74	\$ 1,403,790.08	\$ 54,021.52	\$ 38,701.70	\$ 284,921.44
Total	\$ 96,876,273.17	\$ 54,971,338.79	\$ 2,843,612.96	\$ 674,890.90	\$ 38,386,430.52
	100.00%	56.74%	2.94%	0.70%	39.62%

Table 5 - Wholesale Accounts Receivable Aging Report, Net of Highland Park

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 38,763,666.87	\$ 38,736,191.34	\$ 27,475.53	\$ -	\$ -
Sewer	\$ 15,695,599.50	\$ 13,642,499.50	\$ 2,053,100.00	\$ -	\$ -
IWC	\$ 1,263,685.48	\$ 498,506.08	\$ 126,114.08	\$ 58,109.24	\$ 580,956.08
Pollutant Surcharge	\$ 1,781,434.74	\$ 1,403,790.08	\$ 54,021.52	\$ 38,701.70	\$ 284,921.44
Total	\$ 57,504,386.59	\$ 54,280,987.00	\$ 2,260,711.13	\$ 96,810.94	\$ 865,877.52
	100.00%	94.39%	3.93%	0.17%	1.51%

Table 6 - Wholesale Accounts Receivable Aging Report, Net of Highland Park and WTUA

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 38,763,666.87	\$ 38,736,191.34	\$ 27,475.53	\$ -	\$ -
Sewer	\$ 15,695,599.50	\$ 13,642,499.50	\$ 2,053,100.00	\$ -	\$ -
IWC	\$ 530,139.16	\$ 462,134.32	\$ 68,004.84	\$ -	\$ -
Pollutant Surcharge	\$ 1,781,434.74	\$ 1,403,790.08	\$ 54,021.52	\$ 38,701.70	\$ 284,921.44
Total	\$ 56,770,840.27	\$ 54,244,615.24	\$ 2,202,601.89	\$ 38,701.70	\$ 284,921.44
	100.00%	95.55%	3.88%	0.07%	0.50%

GLWA Aged Accounts Receivable- WATER ACCOUNTS

1/4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$220,330.25	\$220,330.25	\$0.00	\$0.00	\$0.00
ASH TOWNSHIP	\$74,473.25	\$74,473.25	\$0.00	\$0.00	\$0.00
BELLEVILLE	\$29,464.00	\$29,464.00	\$0.00	\$0.00	\$0.00
BERLIN TOWNSHIP	\$73,083.12	\$73,083.12	\$0.00	\$0.00	\$0.00
BROWNSTOWN TOWNSHIP	\$397,109.59	\$397,109.59	\$0.00	\$0.00	\$0.00
BRUCE TOWNSHIP	\$22,572.01	\$22,572.01	\$0.00	\$0.00	\$0.00
BURTCHVILLE TOWNSHIP	\$68,468.02	\$68,468.02	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$2,291,441.80	\$2,291,441.80	\$0.00	\$0.00	\$0.00
CENTER LINE	\$39,815.19	\$39,815.19	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$430,912.09	\$430,912.09	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$825,548.87	\$825,548.87	\$0.00	\$0.00	\$0.00
COMMERCE TOWNSHIP	\$427,758.97	\$427,758.97	\$0.00	\$0.00	\$0.00
DEARBORN	\$1,823,570.62	\$1,823,570.62	\$0.00	\$0.00	\$0.00
DEARBORN HEIGHTS	\$330,582.47	\$330,582.47	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$133,445.34	\$133,445.34	\$0.00	\$0.00	\$0.00
ECORSE	\$136,263.12	\$136,263.12	\$0.00	\$0.00	\$0.00
FARMINGTON	\$95,764.49	\$95,764.49	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$969,793.33	\$969,793.33	\$0.00	\$0.00	\$0.00
FERNDAL	\$174,372.10	\$174,372.10	\$0.00	\$0.00	\$0.00
FLAT ROCK	\$114,681.85	\$114,681.85	\$0.00	\$0.00	\$0.00
FLINT	\$313,464.33	\$313,464.33	\$0.00	\$0.00	\$0.00
FRASER	\$114,711.78	\$114,711.78	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$156,878.70	\$156,878.70	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

2/4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
GENESEE COUNTY DRAIN COMM	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GIBRALTAR	\$29,024.74	\$29,024.74	\$0.00	\$0.00	\$0.00
GREENWOOD TOWNSHIP	\$67,733.21	\$67,733.21	\$0.00	\$0.00	\$0.00
GROSSE ILE TOWNSHIP	\$143,609.44	\$143,609.44	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$157,681.71	\$157,681.71	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$80,281.05	\$80,281.05	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$155,108.63	\$155,108.63	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$61,653.19	\$61,653.19	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$80,425.66	\$80,425.66	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$153,533.37	\$153,533.37	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$62,265.22	\$62,265.22	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$6,330,466.89	\$218,218.93	\$105,948.31	\$101,149.16	\$5,905,150.49
HURON TOWNSHIP	\$145,880.40	\$145,880.40	\$0.00	\$0.00	\$0.00
IMLAY CITY	\$131,660.64	\$131,660.64	\$0.00	\$0.00	\$0.00
IMLAY TOWNSHIP	\$1,368.32	\$1,368.32	\$0.00	\$0.00	\$0.00
INKSTER	\$105,853.32	\$105,853.32	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$30,421.76	\$30,421.76	\$0.00	\$0.00	\$0.00
LAPEER	\$130,240.26	\$130,240.26	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$27,056.13	\$27,056.13	\$0.00	\$0.00	\$0.00
LINCOLN PARK	\$210,984.95	\$210,984.95	\$0.00	\$0.00	\$0.00
LIVONIA	\$1,543,640.97	\$1,543,640.97	\$0.00	\$0.00	\$0.00
MACOMB TWP	\$1,362,970.13	\$1,362,970.13	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

3/4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MADISON HEIGHTS	\$183,477.52	\$183,477.52	\$0.00	\$0.00	\$0.00
MAYFIELD TOWNSHIP	\$5,616.29	\$5,616.29	\$0.00	\$0.00	\$0.00
MELVINDALE	\$109,918.60	\$109,918.60	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$66,403.84	\$66,403.84	\$0.00	\$0.00	\$0.00
NOCWA	\$2,493,966.48	\$2,493,966.48	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$76,398.99	\$76,398.99	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$694,235.99	\$694,235.99	\$0.00	\$0.00	\$0.00
NOVI	\$1,083,535.80	\$1,083,535.80	\$0.00	\$0.00	\$0.00
OAK PARK	\$233,615.44	\$233,615.44	\$0.00	\$0.00	\$0.00
OAKLAND CO DR COM	\$5,002.05	\$5,002.05	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$107,896.21	\$107,896.21	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$493,273.72	\$493,273.72	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$282,781.05	\$282,781.05	\$0.00	\$0.00	\$0.00
RIVER ROUGE	\$61,329.29	\$61,329.29	\$0.00	\$0.00	\$0.00
RIVERVIEW	\$169,616.89	\$169,616.89	\$0.00	\$0.00	\$0.00
ROCKWOOD	\$30,022.32	\$30,022.32	\$0.00	\$0.00	\$0.00
ROMEO	\$25,036.25	\$25,036.25	\$0.00	\$0.00	\$0.00
ROMULUS	\$386,029.67	\$386,029.67	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$464,794.68	\$464,794.68	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$20,715.51	\$20,715.51	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$1,644,164.56	\$1,644,164.56	\$0.00	\$0.00	\$0.00
SOCWA	\$4,599,107.86	\$4,599,107.86	\$0.00	\$0.00	\$0.00
SOUTH ROCKWOOD	\$9,113.42	\$9,113.42	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

4/4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
SOUTHGATE	\$209,004.27	\$209,004.27	\$0.00	\$0.00	\$0.00
ST. CLAIR SHORES	\$266,066.74	\$266,066.74	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$1,550,916.10	\$1,550,916.10	\$0.00	\$0.00	\$0.00
SUMPTER TOWNSHIP	\$64,154.90	\$64,154.90	\$0.00	\$0.00	\$0.00
SYLVAN LAKE	\$23,304.93	\$23,304.93	\$0.00	\$0.00	\$0.00
TAYLOR	\$433,678.15	\$433,678.15	\$0.00	\$0.00	\$0.00
TRENTON	\$393,698.44	\$393,698.44	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$1,518,019.41	\$1,518,019.41	\$0.00	\$0.00	\$0.00
UTICA	\$56,833.87	\$56,833.87	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$642,516.66	\$615,041.13	\$27,475.53	\$0.00	\$0.00
VILLAGE OF ALMONT	\$21,454.13	\$21,454.13	\$0.00	\$0.00	\$0.00
WALLED LAKE	\$91,302.65	\$91,302.65	\$0.00	\$0.00	\$0.00
WARREN	\$998,542.35	\$998,542.35	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$278,150.22	\$278,150.22	\$0.00	\$0.00	\$0.00
WAYNE	\$261,232.20	\$261,232.20	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$2,126,222.97	\$2,126,222.97	\$0.00	\$0.00	\$0.00
WESTLAND	\$1,168,991.19	\$1,168,991.19	\$0.00	\$0.00	\$0.00
WIXOM	\$275,484.38	\$275,484.38	\$0.00	\$0.00	\$0.00
WOODHAVEN	\$165,229.11	\$165,229.11	\$0.00	\$0.00	\$0.00
YCUA	\$1,026,913.38	\$1,026,913.38	\$0.00	\$0.00	\$0.00
TOTAL WATER ACCOUNTS	\$45,094,133.76	\$38,954,410.27	\$133,423.84	\$101,149.16	\$5,905,150.49

GLWA Aged Accounts Receivable- SEWER ACCOUNTS

1/1

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$70,600.00	\$70,600.00	\$0.00	\$0.00	\$0.00
CENTER LINE	\$85,599.50	\$85,599.50	\$0.00	\$0.00	\$0.00
DEARBORN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EVERGREEN-FARMINGTON	\$2,881,500.00	\$2,881,500.00	\$0.00	\$0.00	\$0.00
FARMINGTON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$150,100.00	\$150,100.00	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$18,200.00	\$18,200.00	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$31,406,410.78	\$467,900.00	\$470,200.00	\$470,200.00	\$29,998,110.78
MELVINDALE	\$126,900.00	\$126,900.00	\$0.00	\$0.00	\$0.00
OAKLAND COUNTY GWK DD	\$3,747,700.00	\$3,747,700.00	\$0.00	\$0.00	\$0.00
OMID	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$21,700.00	\$21,700.00	\$0.00	\$0.00	\$0.00
ROUGE VALLEY	\$4,480,100.00	\$4,480,100.00	\$0.00	\$0.00	\$0.00
WAYNE COUNTY N.E.	\$4,109,100.00	\$2,056,000.00	\$2,053,100.00	\$0.00	\$0.00
WAYNE COUNTY-AREA #3	\$4,100.00	\$4,100.00	\$0.00	\$0.00	\$0.00
TOTAL SEWER ACCOUNTS	\$47,102,010.28	\$14,110,399.50	\$2,523,300.00	\$470,200.00	\$29,998,110.78

GLWA Aged Accounts Receivable- IWC ACCOUNTS

1/4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$1,612.35	\$1,612.35	\$0.00	\$0.00	\$0.00
AUBURN HILLS (C-O)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AUBURN HILLS (E-F)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BERKLEY	\$2,901.33	\$2,901.33	\$0.00	\$0.00	\$0.00
BEVERLY HILLS	\$999.14	\$999.14	\$0.00	\$0.00	\$0.00
BINGHAM FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BIRMINGHAM (E-F)	\$2,376.69	\$2,376.69	\$0.00	\$0.00	\$0.00
BIRMINGHAM (SEOC)	\$14,503.48	\$5,588.72	\$8,914.76	\$0.00	\$0.00
BLOOMFIELD HILLS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BLOOMFIELD TOWNSHIP	\$7,351.35	\$7,351.35	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$384,472.22	\$19,066.46	\$30,461.84	\$30,461.84	\$304,482.08
CENTER LINE	\$3,683.10	\$3,683.10	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$12,152.47	\$12,152.47	\$0.00	\$0.00	\$0.00
CITY OF FARMINGTON (E-F)	\$279.12	\$279.12	\$0.00	\$0.00	\$0.00
CITY OF ROCHESTER	\$3,725.23	\$3,725.23	\$0.00	\$0.00	\$0.00
CLARKSTON	\$307.71	\$307.71	\$0.00	\$0.00	\$0.00
CLAWSON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$25,553.79	\$25,445.87	\$107.92	\$0.00	\$0.00
DEARBORN	\$36,586.53	\$36,586.53	\$0.00	\$0.00	\$0.00
DEARBORN HEIGHTS	\$9,462.92	\$9,462.92	\$0.00	\$0.00	\$0.00
DETROIT METRO WC AIRPORT	\$106.64	\$106.64	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$6,355.09	\$6,355.09	\$0.00	\$0.00	\$0.00
FARMINGTON	\$2,886.83	\$2,886.83	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

2 / 4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
FARMINGTON HILLS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FERNDALE	\$8,904.91	\$8,904.91	\$0.00	\$0.00	\$0.00
FRASER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$1,580.76	\$1,580.76	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$1,182.65	\$1,182.65	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$4,175.13	\$4,175.13	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$1,892.64	\$1,892.64	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$8,150.92	\$3,138.32	\$5,012.60	\$0.00	\$0.00
HAZEL PARK	\$3,390.73	\$3,390.73	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$1,635,008.91	\$4,232.86	\$6,753.52	\$6,730.80	\$1,617,291.73
HUNTINGTON WOODS	\$286.18	\$286.18	\$0.00	\$0.00	\$0.00
INDEPENDENCE	\$4,791.68	\$4,791.68	\$0.00	\$0.00	\$0.00
INKSTER	\$5,559.87	\$5,559.87	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LAKE ORION	\$803.30	\$803.30	\$0.00	\$0.00	\$0.00
LATHRUP	\$1,406.81	\$1,406.81	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$488.87	\$488.87	\$0.00	\$0.00	\$0.00
LIVONIA	\$40,179.29	\$40,179.29	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

3/4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MACOMB TWP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MADISON HEIGHTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MELVINDALE	\$9,429.27	\$3,629.99	\$5,799.28	\$0.00	\$0.00
NEW HAVEN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$2,160.97	\$2,160.97	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$92,261.87	\$4,574.03	\$7,307.32	\$7,307.32	\$73,073.20
NOVI	\$17,256.62	\$17,256.62	\$0.00	\$0.00	\$0.00
OAK PARK	\$17,848.54	\$6,769.70	\$11,078.84	\$0.00	\$0.00
OAKLAND TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ORCHARD LAKE VILLAGE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O)	\$5,424.95	\$5,424.95	\$0.00	\$0.00	\$0.00
OXFORD TOWNSHIP	\$961.69	\$961.69	\$0.00	\$0.00	\$0.00
OXFORD VILLAGE	\$1,259.16	\$1,259.16	\$0.00	\$0.00	\$0.00
PLEASANT RIDGE	\$273.77	\$273.77	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$256,812.23	\$12,731.27	\$20,340.08	\$20,340.08	\$203,400.80
REDFORD TOWNSHIP	\$12,612.40	\$12,440.96	\$171.44	\$0.00	\$0.00
ROCHESTER HILLS	\$18,292.48	\$18,292.48	\$0.00	\$0.00	\$0.00
ROMULUS	\$926.07	\$926.07	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$14,195.09	\$14,195.09	\$0.00	\$0.00	\$0.00
ROYAL OAK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$12,007.58	\$12,007.58	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

4 / 4

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
SOUTHFIELD (E-F)	\$28,230.26	\$28,230.26	\$0.00	\$0.00	\$0.00
SOUTHFIELD (SEOC)	\$3,798.88	\$3,798.88	\$0.00	\$0.00	\$0.00
ST. CLAIR SHORES	\$12,146.92	\$12,146.92	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$31,212.30	\$31,212.30	\$0.00	\$0.00	\$0.00
TROY (E-F)	\$384.09	\$384.09	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$37,013.43	\$37,013.43	\$0.00	\$0.00	\$0.00
UTICA	\$2,938.01	\$2,938.01	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$2,044.19	\$2,044.19	\$0.00	\$0.00	\$0.00
VILLAGE OF FRANKLIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$1,381.10	\$1,381.10	\$0.00	\$0.00	\$0.00
WATERFORD TOWNSHIP	\$12,382.30	\$12,382.30	\$0.00	\$0.00	\$0.00
WAYNE	\$5,017.87	\$5,017.87	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$944.01	\$944.01	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (E-F)	\$6,307.99	\$6,307.99	\$0.00	\$0.00	\$0.00
WESTLAND	\$60,051.71	\$23,131.71	\$36,920.00	\$0.00	\$0.00
TOTAL IWC ACCOUNTS	\$2,898,694.39	\$502,738.94	\$132,867.60	\$64,840.04	\$2,198,247.81

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

1/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
HOUGHTON INTERNATIONAL INC.	\$3,878.84	\$3,878.84	\$0.00	\$0.00	\$0.00
FORMING TECH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GLOBAL TITANIUM, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HOUGHTON INTERNATIONAL INC.	\$275.99	\$275.99	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$165.06	\$165.06	\$0.00	\$0.00	\$0.00
FRESH-PAK	\$3,920.54	\$3,920.54	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CHRYSLER STERLING STAMPING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO	\$7,409.09	\$7,409.09	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$1,022.62	\$1,022.62	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$1,669.44	\$1,669.44	\$0.00	\$0.00	\$0.00
PLATING SPEC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CAPITAL REPRODUCTIONS	\$3.54	\$0.00	\$2.04	\$0.00	\$1.50
J & G FOOD PRODUCTS, INC.	\$58.75	\$58.75	\$0.00	\$0.00	\$0.00
FORMING TECH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BLACK LOTUS BREWING CO.	\$102.13	\$72.91	\$0.00	\$0.00	\$29.22
PETRO ENVIRON TECH, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PINE TREE ACRES, INC.	\$16,071.93	\$16,071.93	\$0.00	\$0.00	\$0.00
RIVER ROUGE BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
U-METCO, INC.	\$1,243.93	\$1,243.93	\$0.00	\$0.00	\$0.00
3M COMPANY	\$4,832.27	\$4,832.27	\$0.00	\$0.00	\$0.00
BREW DETROIT	\$5,569.46	\$5,569.46	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

2/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
UNITED FISH DISTRIBUTORS	\$13.35	\$13.35	\$0.00	\$0.00	\$0.00
PRODUCTION SPRING, LLC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LEAR CORPORATION DBA EAGLE C	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNITED TECH ESSEX GROUP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
A & R PACKING CO., LLC	\$5,269.94	\$5,269.94	\$0.00	\$0.00	\$0.00
LA JALISCIENSE, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$1,251.43	\$1,251.43	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$64.06	\$0.00	\$64.06	\$0.00	\$0.00
DETRONIC INDUSTRIES, INC.	\$127.12	\$127.12	\$0.00	\$0.00	\$0.00
ADVANCE ENGINEERING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$45,860.60	\$45,860.60	\$0.00	\$0.00	\$0.00
SEAFARE FOODS, INC.	\$44.62	\$44.62	\$0.00	\$0.00	\$0.00
DETROIT BEER	\$123.65	\$123.65	\$0.00	\$0.00	\$0.00
HACIENDA MEXICAN FOODS	\$4,561.27	\$1,193.36	\$694.54	\$590.50	\$2,082.87
MOTOR CITY BREWING WORKS	\$ (23.25)	\$0.00	\$ (23.25)	\$0.00	\$0.00
TRAFFIC JAM & SNUG	\$ (0.48)	\$0.00	\$0.00	\$0.00	\$ (0.48)
BOZEK'S MARKET	\$72.73	\$72.73	\$0.00	\$0.00	\$0.00
PERSONAL UNIFORM SERVICE, IN	\$105.81	\$86.39	\$19.42	\$0.00	\$0.00
CLASSIC CONTAINER CORP.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTH CENTER BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EXTRUDEHODE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

3/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
FOUNDERS BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BAYS MICHIGAN CORPORATION	\$319.63	\$319.63	\$0.00	\$0.00	\$0.00
MIBA HYDRAMECHANICA CORP.	\$239.39	\$239.39	\$0.00	\$0.00	\$0.00
TURRI'S ITALIAN FOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTHERN LAKES SEAFOOD & MEAT	\$46.71	\$46.71	\$0.00	\$0.00	\$0.00
RAY'S ICE CREAM CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HUNTINGTON CLEANERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AXLE BREWING COMPANY, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BARON INDUSTRIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HOME STYLE FOOD INC.	\$6,130.26	\$6,130.26	\$0.00	\$0.00	\$0.00
RED SPOT PAINT #409139	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
INDUSTRIAL METAL COATING	\$651.55	\$651.55	\$0.00	\$0.00	\$0.00
THE CROWN GROUP-LIVONIA PLANT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COUNTRY FRESH DAIRY CO.	\$63,319.21	\$63,319.21	\$0.00	\$0.00	\$0.00
ETON ST BREWERY- GRIFFIN CLAY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MINNIE MARIE BAKERS, INC	\$3,668.63	\$3,668.63	\$0.00	\$0.00	\$0.00
MACDERMID, INC.	\$4,516.40	\$4,516.40	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FITZGERALD FINISHING LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GLOBAL TITANIUM, INC.	\$4,785.50	\$4,785.50	\$0.00	\$0.00	\$0.00
ACME RUSTPROOF	\$92.87	\$92.87	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

4/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MISTER UNIFORM & MAT RENTALS	\$589.30	\$28.32	\$32.47	\$25.90	\$502.61
KAR NUT PRODUCTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
THE ROYAL OAK BREWERY	\$ (1,666.16)	\$0.00	\$0.00	\$0.00	\$ (1,666.16)
EQ DETROIT, INC.	\$1,558.55	\$1,558.55	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$11,216.84	\$11,216.84	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$ (1,238.68)	\$0.00	\$0.00	\$0.00	\$ (1,238.68)
EQ DETROIT, INC.	\$ (4,588.68)	\$0.00	\$0.00	\$0.00	\$ (4,588.68)
HOUGHTON INTERNATIONAL INC.	\$402.80	\$402.80	\$0.00	\$0.00	\$0.00
ALGAL SCIENTIFIC CORPORATION	\$16,533.05	\$2,989.64	\$1,516.53	\$1,266.73	\$10,760.15
US ECOLOGY MICHIGAN	\$ (2,676.25)	\$0.00	\$0.00	\$0.00	\$ (2,676.25)
ALPHA STAMPING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
POWER VAC OF MICHIGAN, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FARMINGTON BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CITY LAUNDRY, INC.	\$14.27	\$14.27	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$875.63	\$875.63	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FAYGO BEVERAGES, INC.	\$340,510.46	\$69,969.97	\$32,235.09	\$30,509.90	\$207,795.50
BETTER MADE SNACK FOOD	\$27,274.58	\$27,274.58	\$0.00	\$0.00	\$0.00
BROADWAY MKT CORNED BEEF	\$ (109.87)	\$0.00	\$0.00	\$0.00	\$ (109.87)
QUALA SERVICES, LLC	\$290.77	\$290.77	\$0.00	\$0.00	\$0.00
DARLING INGREDIENTS, INC.	\$6,527.19	\$6,527.19	\$0.00	\$0.00	\$0.00
CF BURGER CREAMERY	\$18,879.14	\$18,879.14	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

5/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$2,481.59	\$2,481.59	\$0.00	\$0.00	\$0.00
WIGLEY'S MEAT PROCESS	\$592.70	\$592.70	\$0.00	\$0.00	\$0.00
INTEGRATED PACKAGING CORP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JAMEX BREWING CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SHERWOOD BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DIFCO LABORATORIES, INC.	\$10,576.77	\$10,576.77	\$0.00	\$0.00	\$0.00
KOWALSKI SAUSAGES, CO.	\$764.25	\$764.25	\$0.00	\$0.00	\$0.00
PREMIER PLATING, LLC	\$2,479.55	\$0.00	\$0.00	\$0.00	\$2,479.55
UNITED MEAT & DELI	\$190.24	\$190.24	\$0.00	\$0.00	\$0.00
MICHIGAN DAIRY	\$106,604.11	\$106,604.11	\$0.00	\$0.00	\$0.00
B. NEKTAR MEADERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BAFFIN BREWING COMPANY	\$528.31	\$0.00	\$0.00	\$0.00	\$528.31
DETROIT RIVERTOWN BREWERY CC	\$1,252.62	\$1,252.62	\$0.00	\$0.00	\$0.00
SWEETHEART BAKERY, INC.	\$638.93	\$150.63	\$80.66	\$77.78	\$329.86
DETROIT METRO WC AIRPORT	\$603,467.18	\$603,467.18	\$0.00	\$0.00	\$0.00
FRESH-PAK	\$1,464.38	\$1,464.38	\$0.00	\$0.00	\$0.00
ATWATER IN THE PARK	\$72.56	\$72.56	\$0.00	\$0.00	\$0.00
ROCHESTER MILLS PROD BREWERY	\$2,546.54	\$1,348.02	\$0.00	\$0.00	\$1,198.52
LIBERTY STREET PROD. BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CANTON BREW WORKS	\$70.31	\$70.31	\$0.00	\$0.00	\$0.00
ROAK BREWING CO. LLC	\$2,796.70	\$823.50	\$0.00	\$0.00	\$1,973.20
METROPOLITAN BAKERY	\$522.16	\$522.16	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

6/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
AEVITAS SPECIALITY SERVICES	\$32,959.50	\$20,733.32	\$12,226.18	\$0.00	\$0.00
VERNDALE PRODUCTS	\$15,551.78	\$15,551.78	\$0.00	\$0.00	\$0.00
PEPSI COLA, INC.	\$39,477.48	\$39,477.48	\$0.00	\$0.00	\$0.00
PELLERITO FOODS INC.	\$2,038.66	\$2,038.66	\$0.00	\$0.00	\$0.00
MICHIGAN SOY PRODUCTS CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BASTONE BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CROSS CHEMICAL COMPANY, INC.	\$2,459.84	\$0.00	\$913.53	\$0.00	\$1,546.31
ITALIAN BUTTER BREAD STICKS	\$11.08	\$11.08	\$0.00	\$0.00	\$0.00
DETROIT LINEN SERVICE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SMITH-WATKINS, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOM LAUNDRY CLEANERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN BREWING	\$56.14	\$56.14	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$6,732.97	\$6,732.97	\$0.00	\$0.00	\$0.00
OLIVER HATCH CONSTRUCTION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNIQUE LINEN SERVICES, INC.	\$78.71	\$78.71	\$0.00	\$0.00	\$0.00
FORD NEW MODEL PROGRAM	\$1,145.79	\$1,145.79	\$0.00	\$0.00	\$0.00
E.W. GROBBEL'S SONS, INC.	\$3,200.39	\$3,200.39	\$0.00	\$0.00	\$0.00
ISLAMIC SLAUGHTER HOUSE	\$1,075.76	\$1,075.76	\$0.00	\$0.00	\$0.00
GENERAL LINEN SUPPLY CO.	\$63,296.20	\$12,404.62	\$5,900.00	\$5,959.07	\$39,032.51
KVF TROY CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BATCH BREWING COMPANY	\$ (502.36)	\$0.00	\$0.00	\$0.00	\$ (502.36)
ADVANCED RESOURCE RECOVERY	\$999.83	\$999.83	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

7/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
CINTAS CORP. - MACOMB TWP.	\$58,446.30	\$58,446.30	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MELLO MEATS INC, - KUBISCH S	\$111.90	\$111.90	\$0.00	\$0.00	\$0.00
S & D PACKING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EASTERN MARKET BREWING COMP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
KUBISCH SAUSAGE CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
USHER OIL SERVICES	\$5,407.80	\$5,407.80	\$0.00	\$0.00	\$0.00
RTT	\$23,718.60	\$574.68	\$0.00	\$0.00	\$23,143.92
MILANO BAKERY	\$2,146.68	\$2,146.68	\$0.00	\$0.00	\$0.00
TURRI'S ITALIAN FOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BEIRUT BAKERY, INC.	\$65.41	\$0.00	\$0.00	\$65.41	\$0.00
MCGEAN CHEMICALS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNITED LINEN SERVICE, LLC.	\$309.99	\$309.99	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT SAUSAGES CO INC	\$16.78	\$16.78	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HENKEL CORPORATION	\$543.19	\$0.00	\$151.94	\$0.00	\$391.25
AACTRON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BARTZ BAKERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$775.84	\$775.84	\$0.00	\$0.00	\$0.00
ALL CHEM CORP, LLC.	\$ (126.78)	\$0.00	\$0.00	\$0.00	\$ (126.78)
GRANITE CITY FOOD & BREWERY	\$478.37	\$129.33	\$0.00	\$137.02	\$212.02

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

8/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MICHIGAN PROD. MACHINING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GREAT BARABOO BREWING CO.	\$ (2,319.23)	\$0.00	\$0.00	\$0.00	\$ (2,319.23)
US ECOLOGY ROMULUS, INC.	\$3,789.88	\$3,789.88	\$0.00	\$0.00	\$0.00
CHRYSLER STERLING STAMPING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BROOKS BREWING, LLC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
VERNOR FOOD PRODUCTS	\$70.01	\$70.01	\$0.00	\$0.00	\$0.00
DAVE'S SAUSAGE FACTORY 2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CHILANGO'S BAKERY	\$2,023.21	\$44.47	\$27.12	\$22.34	\$1,929.28
JPT PROPERTIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EXTRUDE HONE CORPORATION	\$156.04	\$156.04	\$0.00	\$0.00	\$0.00
OAKWOOD BAKERY	\$335.86	\$335.86	\$0.00	\$0.00	\$0.00
COCA-COLA REFRESHMENTS USA,	\$2,510.87	\$2,510.87	\$0.00	\$0.00	\$0.00
LILY'S SEAFOOD GRILL & BREWE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROCHESTER MILLS BEER COMPANY	\$271.46	\$271.46	\$0.00	\$0.00	\$0.00
VERNDALE PRODUCTS, INC.	\$6,183.37	\$6,183.37	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MILTON CHILI CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO.	\$3,074.51	\$3,074.51	\$0.00	\$0.00	\$0.00
SPRAYTEK, INC.	\$4,084.94	\$39.17	\$22.60	\$17.24	\$4,005.93
MCNICHOLS POLISHING & ANODIZ	\$29.81	\$0.00	\$0.00	\$29.81	\$0.00
DIVERSIFIED CHEM TECH. INC.	\$154.95	\$154.95	\$0.00	\$0.00	\$0.00
WOODWARD AVENUE BREWERS	\$158.59	\$0.00	\$158.59	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE

9/9

Balances as of 8/31/2018

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MIDWEST WIRE PRODUCTS, INC.	\$ (2.94)	\$0.00	\$0.00	\$0.00	\$ (2.94)
DEARBORN SAUSAGE CO., INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACADEMY PACKING CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ENVIROSOLIDS, L.L.C.	\$161,320.77	\$161,320.77	\$0.00	\$0.00	\$0.00
AUTOMOTIVE FINISH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HOOD CLEANERS	\$210.36	\$0.00	\$0.00	\$0.00	\$210.36
AMERICAN WASTE TECH INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL POLLUTANT SURCHARGE	\$1,781,434.74	\$1,403,790.08	\$54,021.52	\$38,701.70	\$284,921.44

Retail Revenues, Receivables, and Collections: Pursuant to the terms of the lease agreement between the City of Detroit and the Great Lakes Water Authority (GLWA), the Detroit Water & Sewerage Department (DWSD) serves as GLWA's agent for billing activities for the City of Detroit retail customer class. All water and sewer service collections from DWSD customers are deposited in a trust account and are administered in accordance with the GLWA Master Bond Ordinance.

The Monthly Retail Revenues, Receivables, & Collections Report includes the following.

1. FY 2019 DWSD Retail Water Revenue Billings and Collections
2. FY 2019 DWSD Retail Sewer Revenue Billings and Collections
3. DWSD Retail Water & Sewer System Accounts Receivable Aging Report

Note: Wholesale customer revenues are billed by the Great Lakes Water Authority.

DWSD Retail Water Billings and Collections

Retail Billing Basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 1 - DWSD Retail Billings shows the FY 2019 water usage and billed revenue which are provided by DWSD staff. As of August 31, 2018, the DWSD usage was at 111.25% of the budget and billed revenue was at 106.56% of budget.

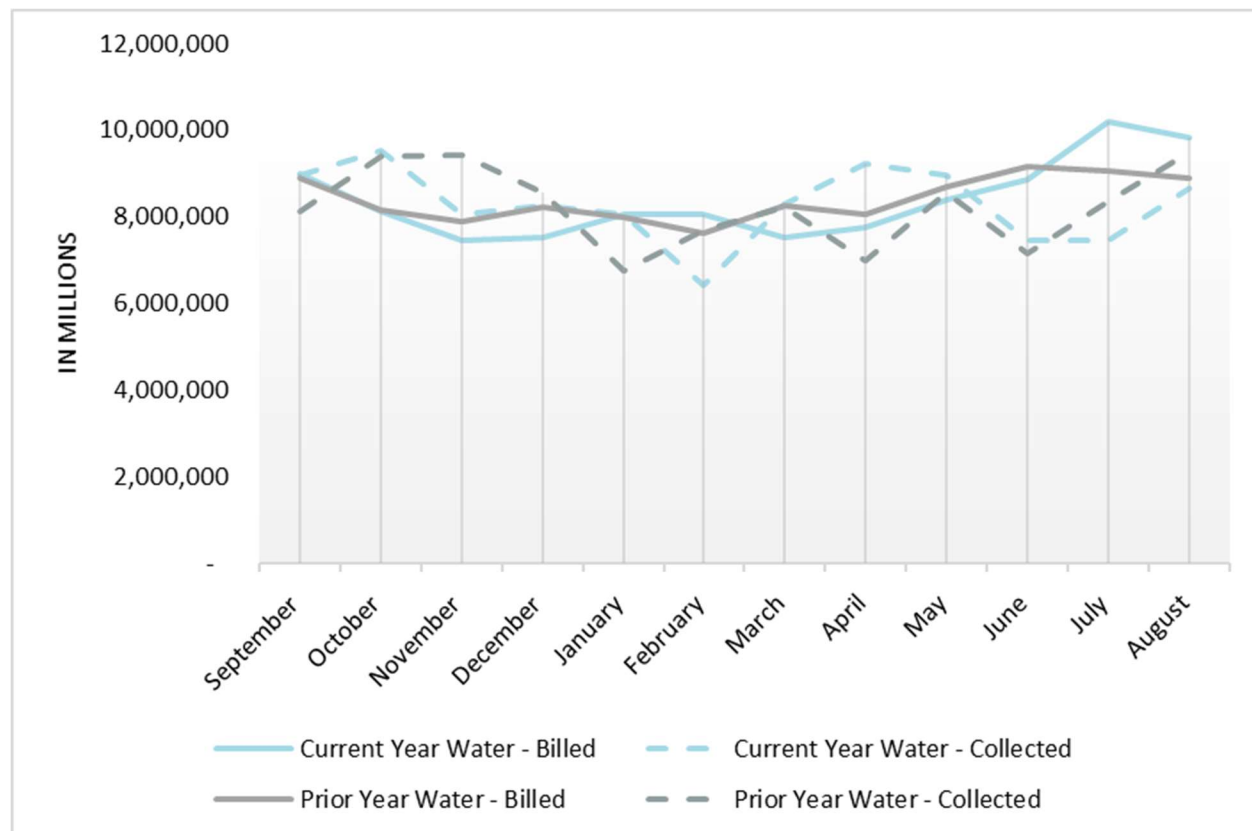
DWSD Retail Water Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Chart 1 - Retail Water Collections shows collections by month for the past 12 months compared to billings for the same calendar months to depict net cashflow from water charges for that time period.

Table 1 – DWSD Retail Water Billings

RETAIL WATER CUSTOMERS								
Month	FY 2019 - Budget			FY 2019 - Actual			Variance	
	Volume	Revenue	Unit	Volume	Revenue (1)	Unit	Volume	Revenue
	Mcf	\$	\$/Mcf	Mcf	\$	\$/Mcf	Mcf	\$
July	269,000	9,424,500	35.04	300,613	10,203,409	33.94	31,613	778,909
August	273,100	9,377,700	34.34	302,476	9,833,149	32.09	29,376	455,449
September	270,500	8,494,300	31.40					
October	233,800	8,165,900	34.93					
November	224,500	7,750,100	34.52					
December	206,500	8,224,900	39.83					
January	226,600	7,978,800	35.21					
February	216,400	7,980,200	36.88					
March	213,300	8,163,900	38.27					
April	223,100	7,856,900	35.22					
May	211,000	9,109,200	43.17					
June	240,200	9,063,600	37.73					
Total	2,808,000	101,590,000	36.18	603,089	20,036,558	33.22	60,989	1,234,358
Subtotals ytd	542,100	18,802,200	34.68	603,089	20,036,558	33.22	60,989	1,234,358
Achievement of Budget				111.25%	106.56%			

(1) Retail Revenues include Miscellaneous Revenues and Penalties

Chart 1 – DWSD Retail Water Collections


DWSD Retail Sewer Billings and Collections

Retail billing basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 2 - DWSD Retail Sewer Billings shows the FY 2019 sewer billed revenue which are provided by DWSD staff. As of August 31, 2018, the DWSD usage was at 110.30% of the budget and billed revenue was at 100.58% of budget.

DWSD Retail Sewer Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

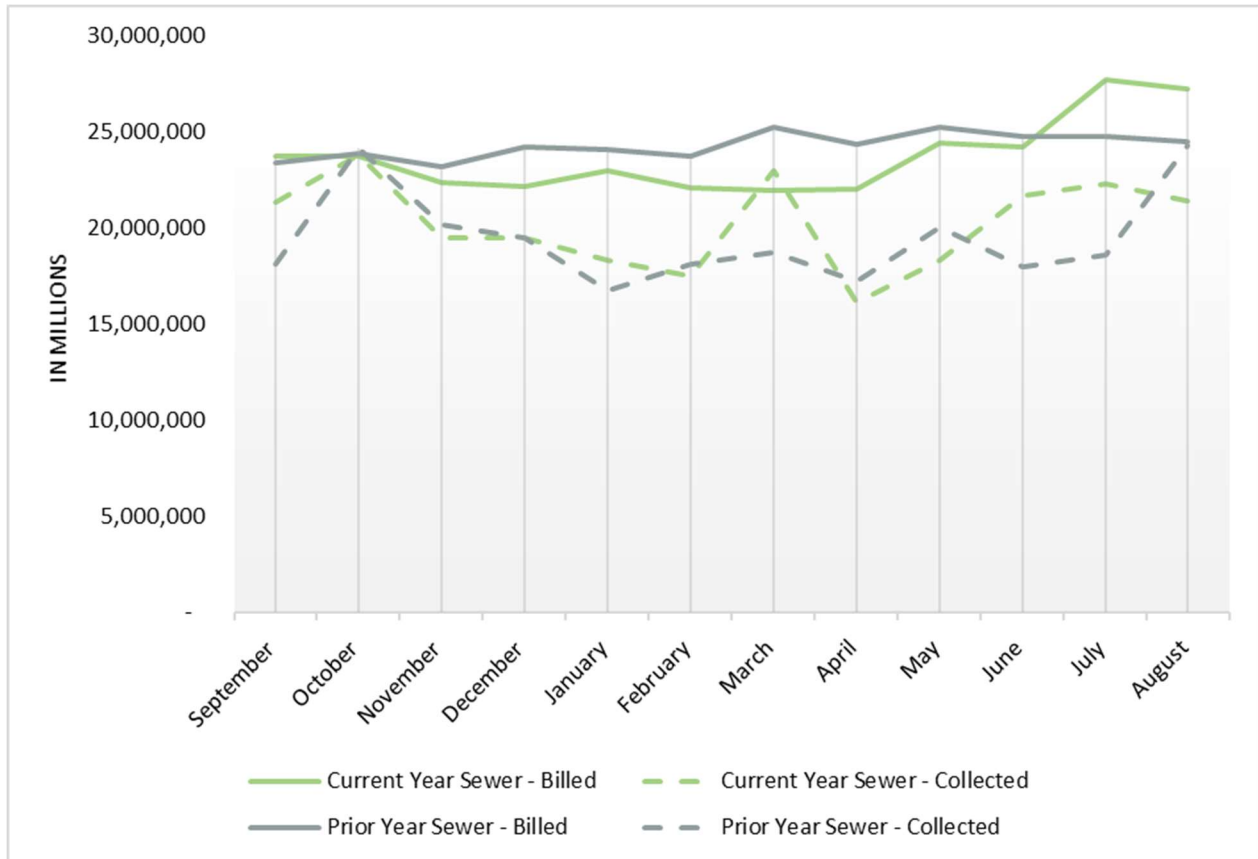
Chart 2 – DWSD Retail Sewer Collections shows collections by month for the past 12 months compared to billings for the same calendar months to depict net cashflow from water charges for that time period.

Table 2 - DWSD Retail Sewer Billings

RETAIL SEWER CUSTOMERS						
Month	FY 2019 - Budget		FY 2019 - Actual		Variance	
	Volume	Revenue	Volume	Revenue	Volume	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$
July	242,100	27,423,400	273,862	27,711,606	31,762	288,206
August	244,200	27,232,200	262,525	27,263,163	18,325	30,963
September	239,600	25,367,500				
October	211,000	25,177,200				
November	197,600	23,861,000				
December	182,400	25,293,500				
January	198,600	24,852,800				
February	191,600	25,329,400				
March	191,000	25,474,500				
April	197,300	24,789,700				
May	187,300	26,205,200				
June	210,300	26,730,700				
Total	2,493,000	307,737,100	536,387	54,974,769	50,087	319,169
Subtotals ytd	486,300	54,655,600	536,387	54,974,769	50,087	319,169
Achievement of Budget			110.30%	100.58%		

(1) Retail Revenues include Miscellaneous Revenues and Penalties

Chart 2 – DWSD Retail Sewer Collections



DWSD Retail Water and Sewer Accounts Receivable Aging Report

The DWSD detailed accounts receivable aging is categorized by customer category.

Table 3 is a summary of the total, current and non-current Water receivables by category as of August 31, 2018. This does not include pre-bifurcation receivables transferred to DWSD as part of the April 2018 Memorandum of Understanding.

Table 4 is a summary of the total, current and non-current Sewer receivables by category as of August 31, 2018. This does not include pre-bifurcation receivables transferred to DWSD as part of the April 2018 Memorandum of Understanding.

Table 3 – DWSD Retail Accounts Receivable Aging Report – Water

Sales Class	# of Accounts	Avg. Balance	Current	> 30 Days	> 60 Days	> 180 Days	TOTAL A/R BALANCE
RESIDENTIAL	190,326	\$ 110.03	\$ 4,024,479	\$ 1,467,847	\$ 3,771,673	\$ 11,678,384	\$ 20,942,383
			19.2%	7.0%	18.0%	55.8%	100.0%
COMMERCIAL	12,501	386.44	2,915,297	267,369	633,973	1,014,297	4,830,937
			60.3%	5.5%	13.1%	21.0%	100.0%
INDUSTRIAL	1,259	520.70	1,025,174	148,317	(38,026)	(479,903)	655,563
			156.4%	22.6%	(5.8%)	(73.2%)	100.0%
TAX EXEMPT	408	1,988.89	430,223	173,960	202,016	5,268	811,467
			53.0%	21.4%	24.9%	0.6%	100.0%
FAITH BASED	639	357.14	38,868	9,962	46,948	132,437	228,215
			17.0%	4.4%	20.6%	58.0%	100.0%
CITY OF DETROIT	1,108	534.11	176,159	234,224	70,539	110,867	591,789
			29.8%	39.6%	11.9%	18.7%	100.0%
WAYNE STATE	3	(77.14)	60	-	(292)	-	(231)
			(26.0%)	0.0%	126.0%	0.0%	100.0%
Total	206,244	\$ 136.05	\$ 8,610,261	\$ 2,301,680	\$ 4,686,831	\$ 12,461,349	\$ 28,060,122
% of Total DWSD A/R			30.7%	8.2%	16.7%	44.4%	100.0%

Table 4 – DWSD Retail Accounts Receivable Aging Report – Sewer

Sales Class	# of Accounts	Avg. Balance	Current	> 30 Days	> 60 Days	> 180 Days	TOTAL A/R BALANCE
RESIDENTIAL	236,476	\$ 230.91	\$ 10,527,671	\$ 3,695,071	\$ 10,637,257	\$ 29,743,948	\$ 54,603,947
			19.3%	6.8%	19.5%	54.5%	100.0%
COMMERCIAL	22,446	1,031.40	7,256,254	1,751,119	4,778,071	9,365,437	23,150,881
			31.3%	7.6%	20.6%	40.5%	100.0%
INDUSTRIAL	3,711	3,112.35	3,588,147	850,682	1,585,725	5,525,378	11,549,932
			31.1%	7.4%	13.7%	47.8%	100.0%
TAX EXEMPT	1,848	3,563.85	1,638,517	987,812	1,424,520	2,535,150	6,586,000
			24.9%	15.0%	21.6%	38.5%	100.0%
FAITH BASED	2,460	633.29	185,485	64,970	482,273	825,169	1,557,897
			11.9%	4.2%	31.0%	53.0%	100.0%
CITY OF DETROIT	2,738	2,631.54	930,237	684,654	2,446,738	3,143,535	7,205,165
			12.9%	9.5%	34.0%	43.6%	100.0%
WAYNE STATE	6	(1,415.25)	100	(9,513)	1,395	(473)	(8,491)
			(1.2%)	112.0%	(16.4%)	5.6%	100.0%
HIGHWAY DRAINAGE	2	981,588.93	257,193	195,370	586,111	924,504	1,963,178
			13.1%	10.0%	29.9%	47.1%	100.0%
Total	269,687	\$ 395.30	\$ 24,383,603	\$ 8,220,167	\$ 21,942,091	\$ 52,062,648	\$ 106,608,509
% of Total DWSD A/R			22.9%	7.7%	20.6%	48.8%	100.0%

The Monthly Trust Receipts & Disbursements Report includes the following.

1. GLWA Trust Receipts & Disbursements – Net Cash Flows and Receipts
2. DWSD Trust Receipts & Disbursements – Net Cash Flows and Receipts
3. Combined System Trust Receipts & Disbursements – Net Cash Flows

GLWA Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems. This report begins with the operational effective date of the GLWA on January 1, 2016.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year as well as a total of all activity for GLWA since inception at January 1, 2016. Fiscal year 2019 reflects only two months of activity to date.

Through August 31, 2018 the water fund cash receipts exceeded MBO disbursements by 118% with a ratio of 111% since January 1, 2016. Through August 31, 2018, the sewer fund cash receipts exceeded MBO disbursements by 105% and by a ratio of 103% since January 1, 2016.

Chart 1 – GLWA 12-Month Net Receipts – Water outlines monthly cash receipt trends across two points of reference for the regional water system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts.

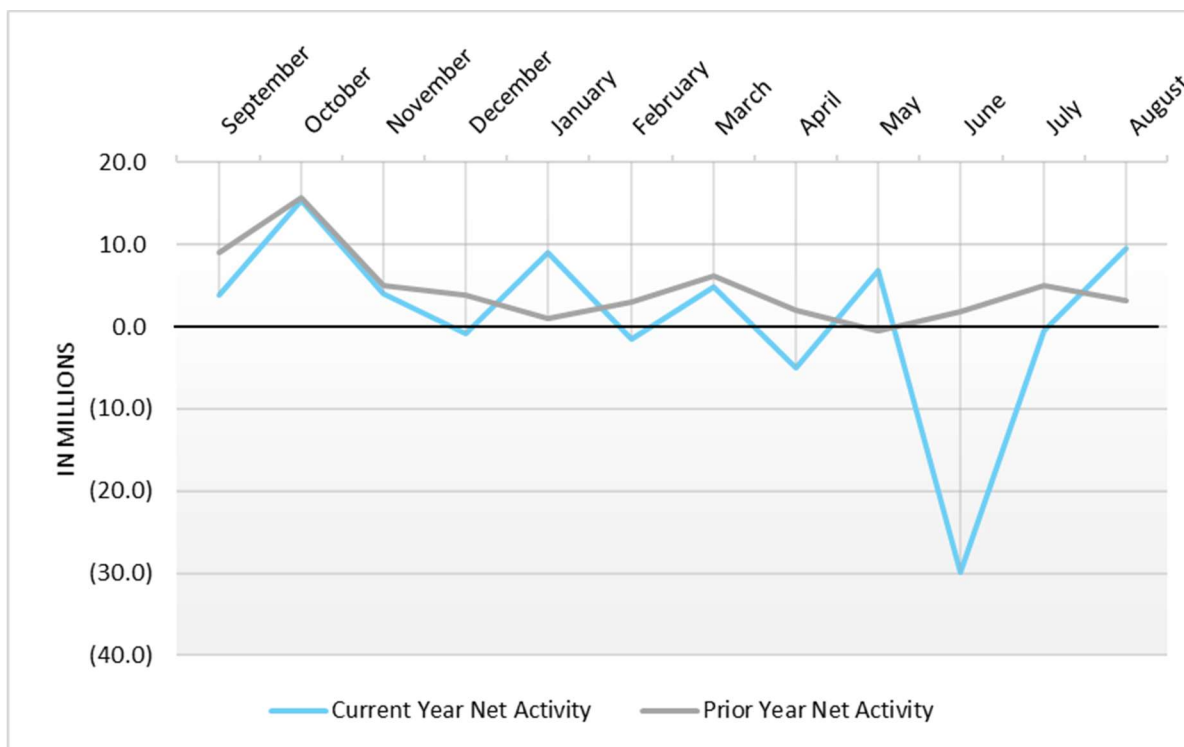
Chart 2 – GLWA 12-Month Net Receipts – Sewer outlines monthly cash receipt trends across two points of reference for the regional sewer system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018 (Prelim)	FY 2019-to- Date	Life-to-Date Total
Water					
1 Receipts	\$ 149,624,282	352,432,096	337,488,663	57,968,695	897,513,736
2 MOU Adjustments	-	-	-		-
3 Adjusted Receipts	149,624,282	352,432,096	337,488,663	57,968,695	897,513,736
4 Disbursements	146,191,756	288,268,172	321,841,172	48,950,422	805,251,522
5 Net Receipts	\$ 3,432,526	64,163,924	15,647,491	9,018,273	92,262,214
6 <i>Ratio of Receipts to Disbursements</i>	102%	122%	105%	118%	111%
Sewer					
7 Receipts	\$ 232,310,973	469,205,156	474,946,332	79,106,541	1,255,569,002
8 MOU Adjustments	-	-	-		-
9 Adjusted Receipts	232,310,973	469,205,156	474,946,332	79,106,541	1,255,569,002
10 Disbursements	219,471,583	440,859,613	480,278,006	75,613,705	1,216,222,907
11 Net Receipts	\$ 12,839,390	28,345,543	(5,331,674)	3,492,836	39,346,095
12 <i>Ratio of Receipts to Disbursements</i>	106%	106%	99%	105%	103%
Combined					
13 Receipts	\$ 381,935,255	821,637,252	812,434,995	137,075,236	2,153,082,738
14 MOU Adjustments	-	-	-	-	-
15 Adjusted Receipts	381,935,255	821,637,252	812,434,995	137,075,236	2,153,082,738
16 Disbursements	365,663,339	729,127,785	802,119,178	124,564,127	2,021,474,429
17 Net Receipts	\$ 16,271,916	92,509,467	10,315,817	12,511,109	131,608,309
18 <i>Ratio of Receipts to Disbursements</i>	104%	113%	101%	110%	107%

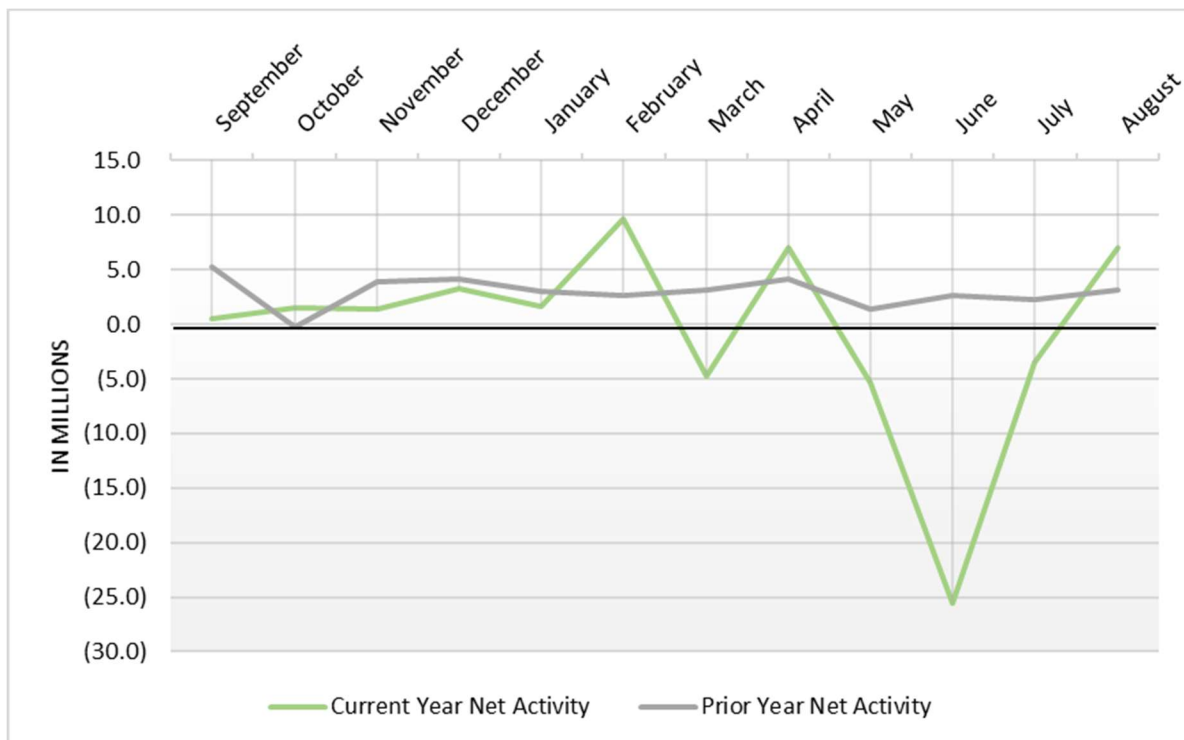
MOU Adjustments applies to DWSD and is shown here for consistency.

Chart 1 – GLWA 12-Month Net Receipts - Water



Note: June 2018 net activity reflects a year-end improvement and extension fund transfer.

Chart 2 – GLWA 12-Month Net Receipts – Sewer



Note: June 2018 net activity reflects a year-end improvement and extension fund transfer.

DWSD Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems. This report begins with the operational effective date of the GLWA on January 1, 2016.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year as well as a total of all activity for DWSD since inception at January 1, 2016. Fiscal year 2019 reflects only two months of activity to date.

Through August 31, 2018 the local water fund cash receipts fell slightly short of MBO disbursements at 99% with a historical ratio of cash receipts exceeding MBO disbursements at 103% since January 1, 2016.

Through August 31, 2018, the local sewer fund cash receipts fell short of MBO disbursements at 92% with a slightly improved, historic shortfall of 95% since January 1, 2016. The Reconciliation Committee is discussing this shortfall and a remediation plan as part of its quarterly meetings.

Chart 3 – DWSD 12-Month Net Receipts – Water outlines monthly activity trends across two points of reference for the local water system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts.

Chart 4 – DWSD 12-Month Net Receipts – Sewer outlines monthly activity trends across two points of reference for the local sewer system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018 (Prelim)	FY 2019-to- Date	Life-to-Date Total
Water					
1 Receipts	\$ 26,201,881	96,451,105	101,228,746	16,778,922	240,660,655
2 MOU Adjustments	18,446,100	-	-	-	18,446,100
3 Adjusted Receipts	44,647,981	96,451,105	101,228,746	16,778,922	259,106,755
4 Disbursements	47,809,552	93,066,144	93,049,457	16,940,650	250,865,803
5 Net Receipts	\$ (3,161,571)	3,384,961	8,179,289	(161,728)	8,240,951
6 <i>Ratio of Receipts to Disbursements</i>	93%	104%	109%	99%	103%
Sewer					
7 Receipts	\$ 65,256,734	233,723,367	242,094,524	44,556,131	585,630,756
8 MOU Adjustments	55,755,100	-	-	-	55,755,100
9 Adjusted Receipts	121,011,834	233,723,367	242,094,524	44,556,131	641,385,856
10 Disbursements	122,297,300	261,963,973	266,217,826	48,013,425	698,492,524
11 Net Receipts	\$ (1,285,466)	(28,240,606)	(24,123,302)	(3,457,294)	(57,106,668)
12 <i>Ratio of Receipts to Disbursements</i>	99%	89%	91%	93%	92%
Combined					
13 Receipts	\$ 91,458,615	330,174,472	343,323,270	61,335,053	826,291,411
14 MOU Adjustments	74,201,200	-	-	-	74,201,200
15 Adjusted Receipts	165,659,815	330,174,472	343,323,270	61,335,053	900,492,611
16 Disbursements	170,106,852	355,030,117	359,267,283	64,954,075	949,358,327
17 Net Receipts	\$ (4,447,037)	(24,855,645)	(15,944,013)	(3,619,022)	(48,865,716)
18 <i>Ratio of Receipts to Disbursements</i>	97%	93%	96%	94%	95%

Chart 3 – DWSD 12-Month Net Receipts - Water

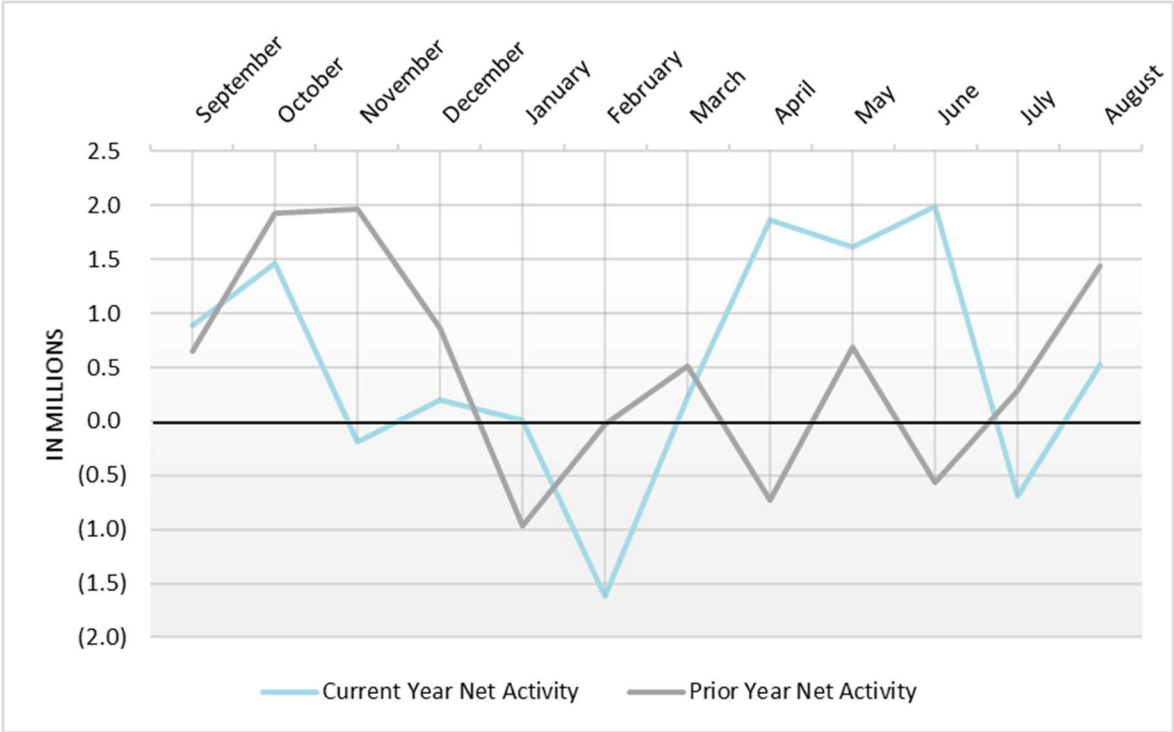
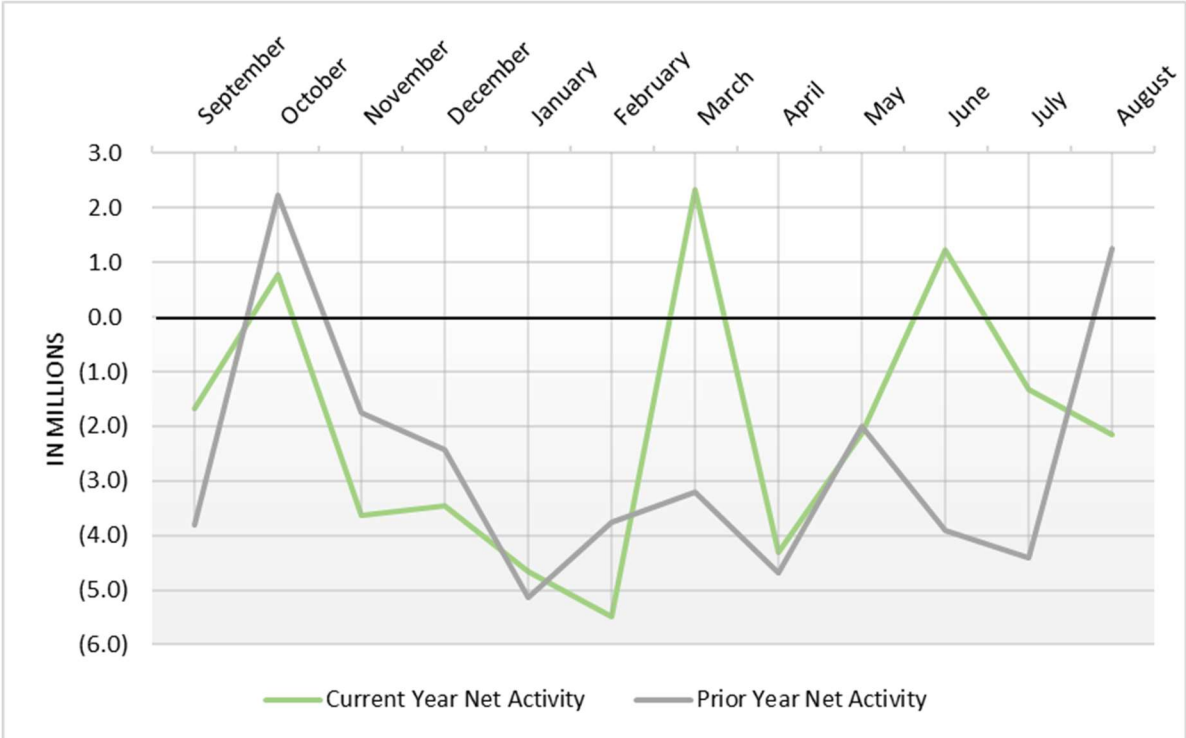


Chart 4 – DWSD 12-Month Net Receipts - Sewer



Combined System Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department) activities which are further separated by the water system and the sewage disposal system.

Table 3 – Combined Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year as well as a total of all activity for GLWA since inception at January 1, 2016. Fiscal year 2019 reflects only two months of activity to date.

Through August 31, 2018 the combined water system cash receipts exceeded MBO disbursements by 113% with a ratio of 110% since January 1, 2016. Through August 31, 2018, the combined sewer system cash receipts exceeded MBO disbursements by 100% and fell short slightly by a ratio of 99% since January 1, 2016.

Table 3 – Combined Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018 (Prelim)	FY 2019-to- Date	Life-to-Date Total
Water					
1 Receipts	\$ 175,826,163	\$ 448,883,201	\$ 438,717,409	\$ 74,747,617	1,138,174,391
2 MOU Adjustments	\$ 18,446,100	\$ -	\$ -	\$ -	18,446,100
3 Adjusted Receipts	194,272,263	448,883,201	438,717,409	74,747,617	1,156,620,491
4 Disbursements	194,001,308	381,334,316	414,890,629	65,891,072	1,056,117,325
5 Net Receipts	\$ 270,955	67,548,885	23,826,780	8,856,545	100,503,165
6 <i>Ratio of Receipts to Disbursements</i>	100%	118%	106%	113%	110%
Sewer					
7 Receipts	\$ 297,567,707	\$ 702,928,523	\$ 717,040,856	\$ 123,662,672	1,841,199,758
8 MOU Adjustments	\$ 55,755,100	\$ -	\$ -	\$ -	55,755,100
9 Adjusted Receipts	353,322,807	702,928,523	717,040,856	123,662,672	1,896,954,858
10 Disbursements	341,768,883	702,823,586	746,495,832	123,627,130	1,914,715,431
11 Net Receipts	\$ 11,553,924	\$ 104,937	\$ (29,454,976)	\$ 35,542	(17,760,573)
12 <i>Ratio of Receipts to Disbursements</i>	103%	100%	96%	100%	99%
Combined					
13 Receipts	\$ 473,393,870	\$ 1,151,811,724	\$ 1,155,758,265	\$ 198,410,289	2,979,374,149
14 MOU Adjustments	\$ 74,201,200	\$ -	\$ -	\$ -	74,201,200
15 Adjusted Receipts	547,595,070	1,151,811,724	1,155,758,265	198,410,289	3,053,575,349
16 Disbursements	535,770,191	1,084,157,902	1,161,386,461	189,518,202	2,970,832,756
17 Net Receipts	\$ 11,824,879	\$ 67,653,822	\$ (5,628,196)	\$ 8,892,087	82,742,593
18 <i>Ratio of Receipts to Disbursements</i>	102%	106%	100%	105%	103%