

# Derry Township Municipal Authority

## **2020 Wastewater Fund Budget**

**APPROVED**

**DTMA Board Resolution #2019-62**

**November 25, 2019**



**TABLE 1**  
**OPERATING FUND**  
**Comparative Cash Budget (in thousands)**

Category / Item	2020	2019	Δ\$	Δ%
<b>Receipts (Refer to Table 2 for Detail)</b>				
Direct Customers	8,150.0	8,053.0	97.0	1.2%
Municipal Customers <sup>1</sup>	773.0	640.0	133.0	20.8%
Hauled Waste	1,210.0	1,150.0	60.0	5.2%
Other Routine <sup>2</sup>	427.4	496.1	(68.7)	(13.8%)
Connection Related <sup>3</sup>	179.4	182.3	(2.9)	(1.6%)
Stormwater Program <sup>4</sup>	0.0	0.0	0.0	~
Interest-Operating Fund <sup>5</sup>	117.1	33.2	83.9	252.7%
Interest-Trust and Restricted Funds <sup>6</sup>	120.7	80.7	40.1	49.8%
<b>Totals before Grants</b>	<b>10,977.6</b>	<b>10,635.2</b>	<b>342.5</b>	<b>3.2%</b>
Transfers from Stormwater Fund	55.3	55.4	(0.0)	(0.1%)
Transfers from Operating Reserve Fund	0.0	0.0	0.0	~
Federal & State Grants	0.0	0.0	0.0	~
<b>Totals</b>	<b>11,033.0</b>	<b>10,690.5</b>	<b>342.4</b>	<b>3.2%</b>
<b>Disbursements (Refer to Table 3 for Detail)</b>				
Departmental Expenditures <sup>7</sup>	6,643.1	6,495.3	147.8	2.3%
Projects and Capital Expenditures	356.7	292.3	64.4	22.0%
Debt Service Payments <sup>8</sup>	3,459.9	3,222.1	237.8	7.4%
Capital Lease Payments <sup>9</sup>	365.8	365.8	0.0	0.0%
<b>Totals before Transfers</b>	<b>10,825.5</b>	<b>10,375.5</b>	<b>449.9</b>	<b>4.3%</b>
Transfers to Operating Reserve Fund	0.0	0.0	0.0	~
Transfers to Resource Allocation Fund	250.0	250.0	0.0	~
<b>Totals</b>	<b>11,075.5</b>	<b>10,625.5</b>	<b>449.9</b>	<b>4.2%</b>
<b>Net Cash</b>				
<b>Inc (Dec) before Grants/Transfers</b>	<b>152.2</b>	<b>259.7</b>	<b>(107.6)</b>	<b>(41.4%)</b>
Increase (Decrease)	(42.5)	65.1	(107.6)	(165.3%)
<b>Beginning Cash Balance</b>	<b>6,571.8</b>			
<b>Ending Cash Balance</b>	<b>6,529.3</b>			

**TABLE 2**  
**OPERATING FUND**  
**Receipt Detail (in thousands)**

Category / Item	2020	2019	Δ\$	Δ%
<b>1 - Municipal Customers</b>				
Lower Swatara	172.0	140.0	32.0	22.9%
South Hanover	601.0	500.0	101.0	20.2%
<b>Totals<sup>1</sup></b>	<b>773.0</b>	<b>640.0</b>	<b>133.0</b>	<b>20.8%</b>
<b>2 - Other Routine</b>				
Late Payment Fees	46.4	43.5	2.9	6.7%
Hershey Sludge Processing	0.0	99.0	(99.0)	(100.0%)
Surcharges	250.0	250.0	0.0	0.0%
Reimb for Developer Inspections	31.2	16.5	14.7	89.1%
Miscellaneous	99.8	87.1	12.7	14.6%
<b>Totals<sup>2</sup></b>	<b>427.4</b>	<b>496.1</b>	<b>(68.7)</b>	<b>(13.8%)</b>
<b>3 - Connection Related Fees</b>				
Inspection	6.5	3.0	3.5	116.7%
Lateral Install & Special Purpose	6.5	7.7	(1.2)	(15.6%)
Installment Payments	1.4	1.8	(0.4)	(20.2%)
Capacity	165.0	169.8	(4.8)	(2.8%)
<b>Totals<sup>3</sup></b>	<b>179.4</b>	<b>182.3</b>	<b>(2.9)</b>	<b>(1.6%)</b>
<b>4 - Stormwater Program</b>				
Lease Revenue	0.0	0.0	0.0	~
Jobbing	0.0	0.0	0.0	~
<b>Totals<sup>4</sup></b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>~</b>
<b>5 - Interest-Operating Fund</b>				
Checking	61.0	10.6	50.4	475.5%
Investments	56.1	22.6	33.5	148.2%
<b>Totals<sup>5</sup></b>	<b>117.1</b>	<b>33.2</b>	<b>83.9</b>	<b>252.7%</b>
<b>6 - Interest-Trust and Restricted Funds</b>				
Operating Reserve	18.5	14.1	4.4	31.2%
Flood Reserve	3.7	2.3	1.4	60.9%
Resource Allocation Fund	20.8	9.8	11.0	112.2%
Debt Service	1.1	0.1	1.0	1000.0%
Debt Service Reserve	26.7	17.7	9.0	50.9%
BR&I Fund	9.5	6.0	3.5	58.3%
2015 Capital Projects Fund	0.0	0.0	0.0	~
2018 Construction Fund	26.0	30.7	(4.7)	~
2019 Capital Project Fund	15.5	0.0	15.5	~
<b>Totals<sup>6</sup></b>	<b>121.8</b>	<b>80.7</b>	<b>40.1</b>	<b>49.8%</b>

**TABLE 3**  
**OPERATING FUND**  
**Disbursement Detail (in thousands)**

Category / Item	2020	2019	Δ\$	Δ%
<b>7 - Departmental Expenses</b>				
Administration	2,950.6	3,028.7	(78.1)	(2.6%)
Collection System	715.7	666.8	48.9	7.3%
Operation	1,920.3	1,817.0	103.3	5.7%
Maintenance	729.8	640.7	89.1	13.9%
Technical Services	326.7	342.2	(15.5)	(4.5%)
<b>Total Departmental<sup>7</sup></b>	<b>6,643.1</b>	<b>6,495.3</b>	<b>147.8</b>	<b>2.3%</b>
<b>8 - Debt Service Payments</b>				
Authority Bond Issues				
2005	0.2	0.2	0.0	0.0%
2015	1,056.4	1,069.3	(12.9)	(1.2%)
2016	881.5	874.5	7.0	0.8%
2019	125.8	175.0	(49.2)	(28.1%)
Derry Township Subsidy Agreements				
2014	0.0	64.4	(64.4)	(100.0%)
2015	623.3	584.4	38.9	6.7%
2016 Note	261.0	296.2	(35.2)	(11.9%)
2018	158.1	158.2	(0.1)	(0.1%)
2019	353.7	0.0	353.7	~
<b>Totals<sup>8</sup></b>	<b>3,459.9</b>	<b>3,222.1</b>	<b>237.8</b>	<b>7.4%</b>
<b>9 - Capital Lease Payments</b>				
Conewago Phase I	159.6	159.6	0.0	0.0%
Conewago Phase II	206.1	206.1	0.0	0.0%
<b>Totals<sup>9</sup></b>	<b>365.8</b>	<b>365.8</b>	<b>0.0</b>	<b>0.0%</b>

**TABLE 4**  
**WASTEWATER FUNDS SUMMARY**  
**Projected Changes in Operating, Restricted and Trust Fund Balances**

Description	Balance as of Jan. 1, 2020	Addition of Funds	Deletion of Funds	Balance as of Dec. 31, 2020	Fund Increase / (Decrease)
<b>Cash &amp; Cash Equivalents</b>					
Cash & Investments	6,571,827	11,032,981	(11,014,569)	6,590,239	<b>18,412</b>
<b>Trust &amp; Restricted Funds</b>					
Operating Reserve	1,045,537	18,240	-	1,063,777	18,240
Debt Service Reserve	1,507,209	26,294	-	1,533,503	26,294
Flood	208,070	3,630		211,700	3,630
WW Resource Allocation	982,491	436,437	-	1,418,928	436,437
Authority Debt Service	-	-	-	-	-
Subsidy Agr Debt Service	-	-	-	-	-
Bond Redemption & Improvement	534,896	9,332		544,228	9,332
2018 Construction	3,102,991	-	(1,304,732)	1,798,258	(1,304,732)
2019 Capital Project	9,571,838	-	(5,083,299)	4,488,539	(5,083,299)
<b>Total Trust &amp; Restricted Funds</b>	<b>16,953,033</b>	<b>493,932</b>	<b>(6,388,031)</b>	<b>11,058,934</b>	<b>(5,894,099)</b>

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**TABLE 5**  
**PROJECTS & CAPITAL EXPENDITURES**

No.	PROJECT NAME	TOTAL COST	PAID Thru 11/15/2019	2020	FUNDING SOURCE
1.	IT Projects	30,000	-	30,000	OF
2.	Computer Hardware	27,000	-	27,000	OF
3.	Lucity Asset Mgt Software*	107,250	52,359	22,716	OF
4.	Clean Agent Fire Protection	103,000	-	103,000	OF
5.	Collection Small SUV	40,000	-	40,000	OF
6.	SP PS Grinder Replace	50,000	-	50,000	OF
7.	WWTP [Fork] Lift Truck	26,000	-	26,000	OF
8.	WWTP F250 Pick-Up Truck	42,000	-	42,000	OF
9.	Annual Brick & Masonry Repairs/Sealing	16,000	-	16,000	OF
<b>SUBTOTAL OPERATING FUND</b>				<b>356,716</b>	
10.	Cocoa Townes Sanitary Sewer Relocation	66,000	-	66,000	18CF
11.	2019 Sanitary Sewer Pipe Repair & Rehab	108,000	3,950	104,050	18CF
12.	2019 Sanitary Sewer Pipe & MH Relining	226,000	14,257	211,743	18CF
13.	HP Drive Sewer Extension	186,500	3,561	182,939	18CF
14.	2020 Sanitary Sewer Repair	125,000		125,000	18CF
15.	2020 Sanitary Sewer Relining	125,000		125,000	18CF
16.	Primary Sludge Pumps Replacement	400,000	-	400,000	18CF
17.	Centrifuge Rotating Assembly [Old Unit]	90,000	-	90,000	18CF
<b>SUBTOTAL 2018 CONSTRUCTION FUND</b>				<b>1,304,732</b>	
18.	Flood Proofing	288,000	25,809	262,191	19CPF
19.	Relocate PC#2	1,775,000	83,693	1,691,307	19CPF
20.	South Tract Grading & Stormwater Improvements	609,400	220,599	388,801	19CPF
21.	Energy Enhancements	13,792,000	36,221	2,500,000	19CPF
22.	Influent Pump Replacement DESIGN	150,000	-	150,000	19CPF
23.	Power & SCADA Flood Resilience & Mitigation DESIGN	91,000	-	91,000	19CPF
		-	-	-	19CPF
<b>SUBTOTAL 2019 CAPITAL PROJECT FUND</b>				<b>5,083,299</b>	
					WWRAF
			-	-	WWRAF
<b>SUBTOTAL WASTEWATER RESOURCE ALLOCATION FUND</b>				<b>-</b>	
<b>TOTAL PROJECTS &amp; CAPITAL EXPENDITURES</b>		<b>18,473,150</b>	<b>440,448</b>	<b>6,744,748</b>	

**NOTES:**

\* 70/30 Cost share with Stormwater

**ATTACHMENT A**  
**STATEMENT OF REVENUES AND EXPENSES**  
**Budget and Annual Comparison**  
**For the period from January 1, 2019 to October 31, 2019**  
**(displayed in \$1,000s)**

	<b>2019 YTD</b>	<b>Budget YTD</b>	<b>Increase (Decrease)</b>	<b>%Δ</b>	<b>2019 Budget</b>
Operating revenues:					
Sewer service:					
	\$6,674.2	\$6,710.8	(\$36.6)	(0.5%)	\$8,053.0
Municipal customers	691.0	533.3	157.7	29.6%	640.0
Hauled waste processing	1,267.4	958.3	309.0	32.2%	1,150.0
Surcharges	538.7	208.3	330.4	158.6%	250.0
Biosolids processing	23.6	82.5	(58.9)	(71.4%)	99.0
Connection, related fees	38.2	22.7	15.5	68.4%	27.2
Other	66.2	87.1	(20.9)	(24.0%)	104.5
<b>Total operating revenue</b>	<b>\$9,299.3</b>	<b>\$8,603.1</b>	<b>\$696.2</b>	<b>8.1%</b>	<b>\$10,323.7</b>
Operating expenses:					
Administrative					
(incl. payroll taxes & benefits)	\$2,112.4	\$2,524.7	(412.3)	(16.3%)	\$3,028.7
Collection system	523.2	555.6	(32.5)	(5.8%)	666.8
Plant operations & maintenance	1,538.9	1,514.1	24.8	1.6%	1,817.0
Maintance	619.4	533.9	85.5	16.0%	640.7
Technical services	243.9	285.2	(41.3)	(14.5%)	342.2
Project expenses	459.2	243.6	215.6	88.5%	292.3
<b>Total operating expenses</b>	<b>\$5,497.0</b>	<b>\$5,657.1</b>	<b>(\$160.2)</b>	<b>(2.8%)</b>	<b>\$6,787.6</b>
Operating income before					
depreciation & amortization	\$3,802.3	\$2,945.9	\$856.4	29.1%	\$3,536.1
Depreciation & Amortization of PPE	2,650.9	2,603.8	47.1	1.8%	3,124.6
<b>Operating income (loss)</b>	<b>\$1,151.4</b>	<b>\$342.1</b>	<b>\$809.3</b>	<b>236.6%</b>	<b>\$411.5</b>
Nonoperating revenues:					
Interest income	\$242.6	\$96.4	\$146.2	151.7%	\$115.7
Government grants	0.0	0.0	0.0	-	0.0
Capacity fees	598.7	141.5	457.2	323.1%	169.8
Other	18.0	21.8	(3.7)	(17.2%)	26.1
<b>Total nonoperating revenue</b>	<b>\$859.4</b>	<b>\$259.6</b>	<b>\$599.7</b>	<b>231.0%</b>	<b>\$311.6</b>
Nonoperating expenses:					
Interst on:					
Capital Lease	\$28.7	\$28.5	\$0.2	0.8%	\$34.2
Bonds and Notes Payable	881.3	804.0	77.3	9.6%	964.8
Bond issuance costs	221.0	111.7	109.3	97.8%	111.7
Amortization of Bond Premium	(72.1)	(57.6)	(14.5)	25.2%	(69.2)
Other	0.0	0.0	0.0	-	0.0
<b>Total nonoperating expenses</b>	<b>\$1,058.9</b>	<b>\$886.6</b>	<b>\$172.3</b>	<b>19.4%</b>	<b>\$1,041.5</b>
<b>Income (loss) before contributions</b>					
	<b>\$951.9</b>	<b>(\$284.8)</b>	<b>\$1,236.7</b>		<b>(\$318.5)</b>
Sewer extensions contributed					
by developers	\$0.0	\$0.0	0.0	-	\$0.0
<b>Increase (decrease) in net position</b>	<b>\$951.9</b>	<b>(\$284.8)</b>	<b>\$1,236.7</b>	<b>-</b>	<b>(\$318.5)</b>

**ATTACHMENT B**  
**OPERATING FUND**  
**Consolidated Change in Net Position**  
**(in thousands)**

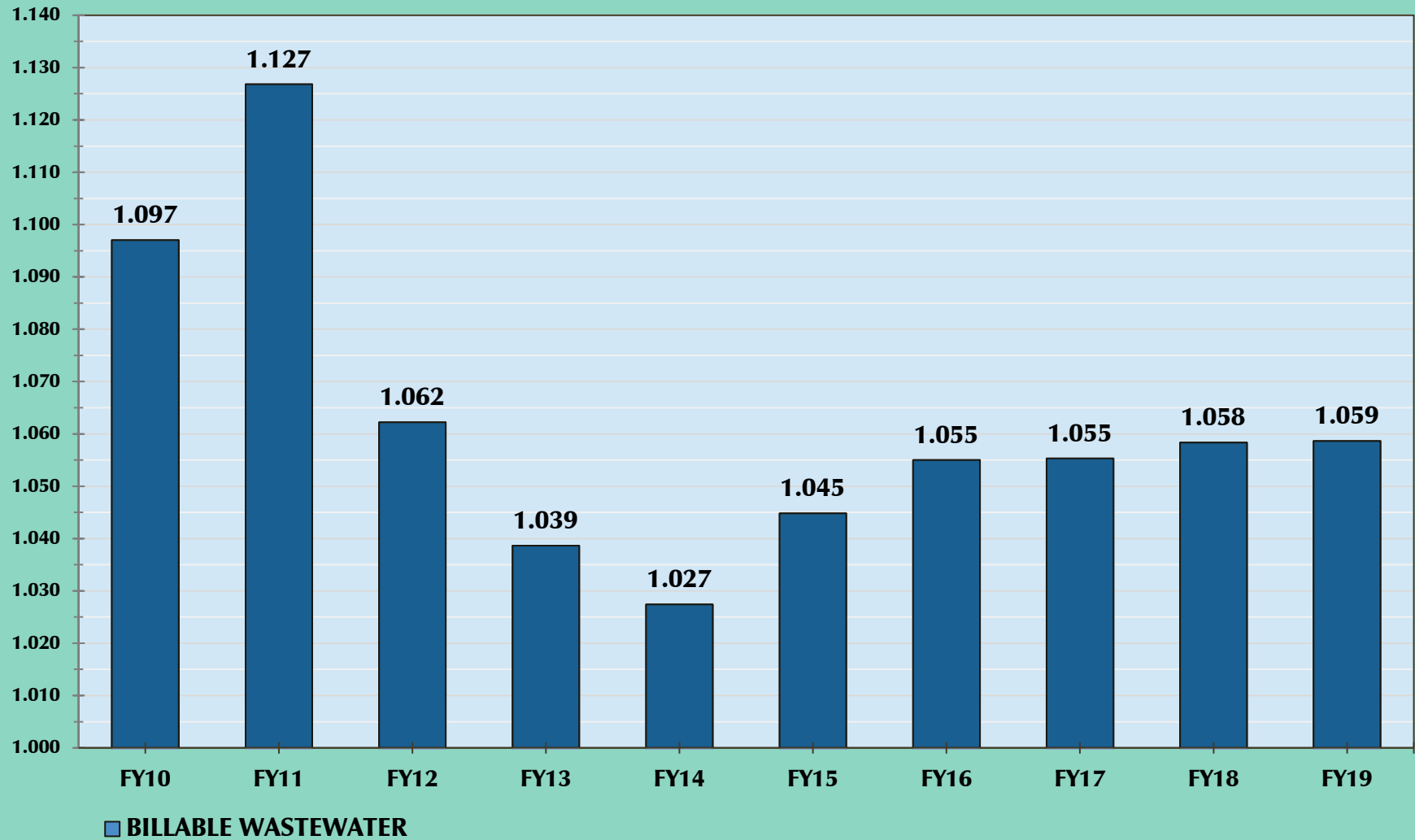
Category / Item	2020 Budget	2019 Budget	Difference Amount	%
Operating revenues	10,547.2	10,323.7	223.5	2.2%
Operating expenses	6,999.8	6,787.6	212.2	3.1%
Income before depreciation and amortization	3,547.5	3,536.1	11.4	30.0%
Depreciation and amortization	3,210.5	3,124.6	85.9	2.7%
Net income (loss)	337.0	411.5	(74.5)	(18.1%)
Non-operating revenues	431.5	311.6	119.9	38.5%
Non-operating expenses	1,251.3	1,041.5	209.8	20.1%
Change in net position	<b>(482.8)</b>	<b>(318.5)</b>	<b>(164.4)</b>	



**ATTACHMENT C**  
**OPERATING FUND**  
**Change in Net Position - Detail**

Category / Item	2020 Budget	2019 Budget	Difference Amount	%
<b>Operating Revenue</b>				
Direct Customers	8,150.0	8,053.0	97.0	1.2%
Municipal Customers	773.0	640.0	133.0	20.8%
Hauled Waste	1,210.0	1,150.0	60.0	5.2%
Other Routine	370.0	453.5	(83.5)	(18.4%)
Connection Related	44.2	27.2	17.0	62.5%
<b>Operating revenue</b>	<b>10,547.2</b>	<b>10,323.7</b>	<b>223.5</b>	<b>2.2%</b>
<b>Operating Expenses</b>				
Administration	2,950.6	3,028.7	(78.1)	(2.6%)
Collection System	715.7	666.8	48.9	7.3%
Operation	1,920.3	1,817.0	103.3	5.7%
Maintenance	729.8	640.7	89.1	13.9%
Technical Services	326.7	342.2	(15.5)	(4.5%)
Projects	356.7	292.3	64.4	22.0%
<b>Operating expenses</b>	<b>6,999.8</b>	<b>6,787.6</b>	<b>212.2</b>	<b>3.1%</b>
<b>Net Income (Loss)</b>				
Earnings before depreciation & amortization	3,547.5	3,536.1	11.4	30.0%
Less: depreciation & amortization	3,210.5	3,124.6	85.9	2.7%
<b>Net income (loss)</b>	<b>337.0</b>	<b>411.5</b>	<b>(74.5)</b>	<b>(18.1%)</b>
<b>Nonoperating Revenue</b>				
Interest Income	240.3	115.7	124.6	107.8%
Capacity Fees	165.0	169.8	(4.8)	(2.8%)
Federal and State Grants	0.0	0.0	0.0	-
Miscellaneous	26.2	26.1	0.1	0.4%
<b>Non-operating revenue</b>	<b>431.5</b>	<b>311.6</b>	<b>119.9</b>	<b>38.5%</b>
<b>Nonoperating Expense</b>				
Interest on Debt				
Capital Lease	30.9	34.2	(3.3)	(9.6%)
Bonds and notes payable	1,238.6	964.8	273.8	28.4%
Bond Issue Costs	120.4	111.7	8.7	7.8%
Amortization of Bond Premium	(138.6)	(69.2)	(69.4)	100.4%
Other	0.0	0.0	0.0	-
<b>Non-operating expense</b>	<b>1,251.3</b>	<b>1,041.5</b>	<b>209.8</b>	<b>20.1%</b>
<b>Increase (Decrease) in Net Position</b>				
<b>Change in net position</b>	<b>(482.8)</b>	<b>(318.5)</b>	<b>(164.4)</b>	

### ATTACHMENT D BILLABLE WASTEWATER (BILLION GALLONS PER YEAR)



**ATTACHMENT E****DESCRIPTION OF WASTEWATER PROJECTS AND CAPITAL EXPENDITURES**

*The following project numbers and fund headings correspond to those found in the Budget, TABLE 5 - PROJECTS & CAPITAL EXPENDITURES.*

**WASTEWATER OPERATING FUND [OF]**

1. IT Projects – This project includes the upgrading all DTMA workstations to Office 2016. The proposed licensing model will actually be for Office 2019 so that we may upgrade to Office 2019 at any time.
2. Computer Hardware – This item includes the scheduled replacement of desktop PC workstations, SCADA plant workstations and plant SCADA touch panel computers.
3. Lucity Asset Management Software [IN PROGRESS] – Lucity is the asset management software that is currently being implemented and deployed.
4. Clean Agent Fire Protection - Another vulnerability identified in the Homeland Security assessment is the fire protection for sensitive rooms containing our IT servers and SCADA computers. This project will provide for the installation of a clean fire suppression system in those rooms to improve the protection of those critical assets.
5. Collection System Small SUV – The proposed unit will replace a similar small 2009 SUV type vehicle with high mileage used by our field construction inspector. The old vehicle, which has 4WD/AWD transfer case issues, is not reliable for the off road needs of the inspector, however, it will be repurposed on an interim basis for limited over the road use by operations to travel to the Southwest WWTP
6. Southpoint Pump Station Grinder Replacement – The existing grinder at the SP PS had failed a number of years ago and an effort was made to operate without it. However with the increasing flows handled there, the PS has been experiencing pump ragging problems and to insure the reliability of the pumps, a new grinder will be installed.
7. WWTP Fork Lift Truck – This propane powered fork truck will be used in the plant to move pumps, motors, gear boxes and other equipment, as well as poly-totes, flood doors, and other skid mounted material around the plant site and within the various building garages and interior storage areas.
8. WWTP F250 Pick Up Truck – This pick-up truck will replace a 1999 model which requires significant repairs to pass inspection and which will be removed from road duty and used for snowplowing on WWTP property.

9. Annual Brick & Masonry Repairs & Sealing – This is an annual expenditure for the upkeep of the brick and masonry facades on the numerous building assets.

### **WASTEWATER - 2018 CONSTRUCTION FUND [18CF]**

10. Cocoa Townes Sanitary Sewer Improvement – This project includes replacement of the sanitary sewer line and manhole identified to be impacted by the Cocoa Townes HOA stormwater swale as well as stabilization and improvements of the stormwater system in proximity to our sewer line to prevent future failure and loss of service.
11. 2019 Sanitary Sewer & Manhole Rehab [IN PROGRESS] – This external repair (dig-up) project continues our efforts to maintain and rehabilitate the sanitary sewer piping and manholes and extend the life and reliability of our underground assets.
12. 2019 Sanitary Sewer & Manhole Relining [IN PROGRESS] – This relining repair project continues our efforts to maintain and rehabilitate the sanitary sewer piping and manholes and extend the life and reliability of our underground assets.
13. Hersheypark Drive Sewer Extension – This project involve the replacement of a section of Highmeadow PS force main with ductile iron gravity pipe to eliminate corrosive conditions that currently occur at the end of the force main.
14. 2020 Sanitary Sewer & Manhole Rehab – The ongoing inspection of the Authority's underground assets continues to provide information on the deficiencies that require repair and improvements to insure the reliability and longevity of the collection system assets. This project will focus on deficiencies requiring external (dig-up) repairs.
15. 2020 Sanitary Sewer & Manhole Relining – The ongoing inspection of the Authority's underground assets continues to provide information on the pipeline deficiencies that require repair and improvements to insure the reliability and longevity of the collections assets. This project will focus on deficiencies requiring internal (relining) repairs.
16. Primary Sludge Pump Replacement – The existing primary sludge pumps have reached the end of their useful life causing increased downtime and costly repairs. This project will replace those pumps with new style pumps that are not only more durable for the severe duty but are easier to maintain. The project will also include modifications to the suction and discharge piping to include a mechanical flushing system for ease of flushing and cleaning the conveyance piping.
17. Centrifuge Rotating Assembly (Old Unit) – The centrifuge is our primary dewatering equipment and the most critical and expensive component is the rotating assembly. We replaced the entire rotating assembly last year and this project involves returning the old unit to the factory

for a complete rebuild and balancing. With the rebuilt assembly, the rotating assembly can be installed with minimum machine downtime.

### **WASTEWATER – 2019 CAPITAL PROJECT FUND [18CPF]**

18. Floodproofing [IN PROGRESS] – This project addresses one of notable vulnerabilities of our facility by installing flood-proof door protection and raising curbs to increase our resistance to frequent Swatara Creek flood events.
19. Relocation of Power Center #2 [IN PROGRESS] - In early, 2018, the Board authorized the design and implementation to relocate power center (PC) #2 out of the existing flood prone area as well as relocating the switches inside the Sludge building 1<sup>st</sup> floor to the 2<sup>nd</sup> floor.
20. South Tract Grading and Stormwater Improvements [IN PROGRESS] – This project involves the preparation of the plant’s south tract in anticipation of relocating the power center #2 and cogen facilities to a higher elevation. Work includes rough site and roadway grading and stormwater improvements.
21. Energy Enhancements [IN PROGRESS] – This project involves the design and construction of a new biogas treatment system, new co-gen equipment and building as well as new plant heating and heat recovery systems.
22. Influent Pump Replacement [DESIGN - IN PROGRESS] – This project involves the design and construction for the replacement of the four (4) existing raw sewage pumps with dry pit submersible pumps as well as the relocation of VFDs and pump controls to the second floor. When completed this will allow the pumps to continuously operate when submerged during a flood event.
23. Power & SCADA Flood Resilience & Mitigation [DESIGN – IN PROGRESS] - This project involves the design and construction for the relocation and improved resilience of all 1<sup>st</sup> floor and below grade electrical panels, VFDs, and SCADA equipment to the 2<sup>nd</sup> floor of the sludge building. When completed this will allow the restoration of service to those impacted areas much more quickly following a flood event.