

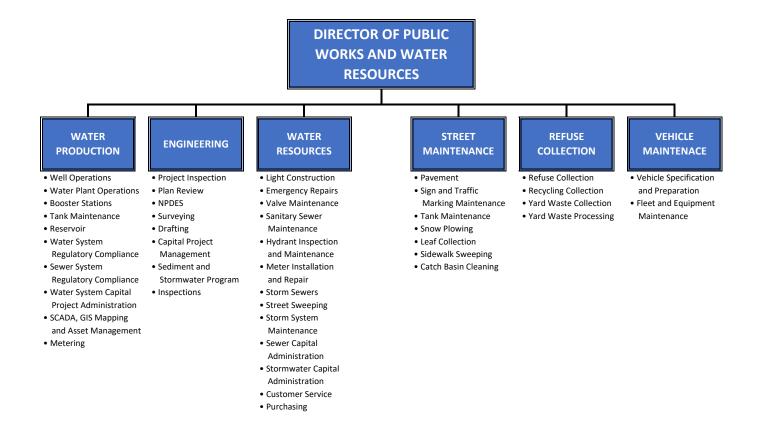
PUBLIC WORKS AND WATER RESOURCES

2019 BUDGET PRESENTATION TO CITY COUNCIL

SEPTEMBER 10, 2018



CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT ORGANIZATIONAL CHART



CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT Full Time History/Vacancies as of August 17, 2018



	FULL TIME VACANCIES (Included Above)		
Division	Title	#	Reason for Vacancy (date)
Refuse	None	0.0	No current FTE vacancies
Street	None	0.0	No current FTE vacancies
Engineering	None	0.0	No current FTE vacancies
Water	None	0.0	No current FTE vacancies
Sewer	None	0.0	No current FTE vacancies
Stormwater	None	0.0	No current FTE vacancies
Maintenance (Fleet)	None	0.0	No current FTE vacancies
Total		0.0	

	COMMENTS		
Division	Title	Change (+/-)	Reason for Adjustment
Refuse	None	0.0	No positional changes in FY2019
Street	Equipment Operator	(2.0)	Reclassification and Realignment
	Maintenance I	1.0	Reclassification and Realignment
Engineering	None	0.0	No positional changes in FY2019
Water	Administration Professional I	1.0	Reclassification
	Secretary I	(1.0)	Reclassification
	Equipment Operator	(2.0)	Reclassification
	Maintenance I	2.0	Reclassification
	Digital Scanner/Record Asst II	1.0	Realignment of Positions
	GIS Technician	1.0	Realignment of Positions
Sewer	Equipment Operator	1.0	Reclassification
	Maintenance I	(1.0)	Reclassification
Stormwater	None	0.0	No positional changes in FY2019
Maintenance (Fleet)	None	0.0	No positional changes in FY2019
Total		1.0	

^{*}Please refer to page 134, APPENDIX B, for Part Time totals from 2018-2019

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 PROGRAM NARRATIVE

The Public Works and Water Resources Department is responsible for potable water treatment and delivery, sanitary sewage collection and transmission services, refuse collection, City fleet maintenance, engineering, surveying, street maintenance and stormwater management through its program divisions described below:

- Engineering Division: Responsible for the engineering review of new subdivisions and construction improvement plans, sediment and stormwater program implementation, construction inspection, public works capital project development and administration, survey support, GIS database management, and administration of our annual Street and Sidewalk Programs. Staff also responds to resident complaints regarding drainage, erosion, and other related issues. Engineering staff prepare reports and recommendations to the City Manager and City Council on various improvements throughout the City and maintain an active liaison with engineering consultants.
- **Refuse Division:** Performs numerous services including regular trash collection, curbside recycling collection, bulk or special pick-up service, yard waste collection, and Main Street Big Belly Compactor collection. The Refuse Division also assists various operating departments for trash collection at special events throughout the year.
- **Street Division:** Responsible for minor repairs of streets and curbs, repair of city owned sidewalks, maintenance of the City's yard waste processing areas, the application of traffic control signage and striping, leaf collection, and snow plowing. In addition, this division routinely assists other departments and PWWR divisions as required.
- Fleet Maintenance Division: Responsible for maintaining the City's 225 vehicles and pieces of motorized equipment and focused on improving fleet standardization and minimizing life cycle costs, while reducing parts inventory requirements, maintenance burden, and vehicle down time. The Fleet Maintenance Division also assists with vehicle specifications for new purchases.
- Water Division: Responsible for maintaining regulatory compliance, GIS database management, oversight of day to
 day water system operations, engineering and design of facilities, supervision and inspection of construction projects,
 and capital project development and administration. Water construction plans and specifications are prepared for
 bidding under this program. Water Division engineering staff prepare reports and recommendations to the City
 Manager and City Council on facility improvements along with plan and specification development. The Division also
 maintains an active liaison with engineering consultants.
- Sewer Division: The sewer division is responsible for maintaining regulatory compliance, oversight of day to day
 sanitary sewer system operations, engineering and design of facilities, supervision and inspection of construction
 projects, and capital project development and administration. Staff prepares reports and recommendations to the
 City Manager and City Council on asset, equipment and facility improvements and maintains an active liaison with
 engineering consultants as well as the general public.
- Stormwater Division: Responsible for maintaining NPDES Phase II Permit compliance, GIS database management,
 oversight of day to day system operations, engineering and design of facilities, supervision and inspection of
 construction projects, and capital project development and administration. Stormwater staff prepare reports and
 recommendations to the City Manager and City Council on facility improvements. Responsible for the programming
 and administration of the Stormwater Utility.

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2018 ACCOMPLISHMENTS

Key accomplishments in 2018 include:

- Contributed to the successful passage of the referendum, providing a funding source for many important PWWR Projects.
- Successfully implemented the Stormwater Utility.
- Began the planned Capital Improvements associated with the Stormwater Utility and continued to lead the state on our NPDES Permit Compliance.
- Continued GIS database development and maintenance of the water, sanitary sewer and storm sewer systems which will be used for advanced asset management, maintenance recordkeeping, and stormwater conveyance/treatment retrofit optimization. Created workflows for Catch Basin repair, water valve exercising, and other maintenance items using tablets in the field and uploaded to database in real time, putting this information at our fingertips.
- Had another successful year of our Annual Intern Program. Five University of Delaware Students spent the summer
 working with our Environmental Coordinator, Field Operations Superintendent, Water Operations Superintendent
 and our Engineering Technician on environmental compliance, sewer manhole inspections, street sign inventories,
 refuse cart inventories, and database updates.
- Updated the Water and Sewer Standards and Specifications

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 GOALS

Goals for 2019 include:

- We expect to have the final version of our NPDES MS4 stormwater permit in late 2018. This permit will require staff and our consultant to draft and implement a new stormwater pollution prevention plan, while continuing the requirements of previous plans, including the annual reporting of stormwater quality initiatives.
- Utilize our in-house staff in order to complete the update to the City's Standards and Specifications for Construction, last updated in 2001.
- Create Standard Operating Procedures for each Division within the Department.
- Complete the rehabilitation of the Curtis Water Treatment Plant and begin the rehabilitation at the South Well Field Water Treatment Plant.
- Complete the environmental remediation and the demolition of the Rodney Dormitory site.
- Design and install up to one mile of water main as part of our rehabilitation program.
- Continue to assess and repair our sanitary sewer mains.
- Assess environmental compliance at all City Owned facilities.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

OPERATING BUDGET

REFUSE DIVISION

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - REFUSE DIVISION EXECUTIVE SUMMARY

EXPENDITURE BUDGET					
Object Level Detail:	FY2018 Appr'd	FY2019 Rec'd	FY2018 App'd vs. FY2019 Rec'd	% +/- over FY2018 Appr'd	Comments
Full-time Wages	\$496,003	\$518,222	\$22,219	4.48%	No change in total full-time positions from FY2018
Part-time Wages	\$0	\$0	\$0	#DIV/0!	
Other Wages	\$38,180	\$43,470	\$5,290	13.86%	
Benefits	\$357,428	\$399,264	\$41,836	11.70%	
Personnel Services	\$891,611	\$960,956	\$69,345	7.78%	*Sum of above listed wages and benefits
Materials and Supplies	\$24,700	\$27,700	\$3,000	12.15%	
Contractual Services	\$856,811	\$911,310	\$54,499	6.36%	
Depreciation	\$248,300	\$228,011	-\$20,289	-8.17%	*Finance Calculation
Other Expenditures	\$750	\$750	\$0	0.00%	
Sub-Total:	\$2,022,172	\$2,128,727	\$106,555	5.27%	
Inter-Dept. Charges	\$89,797	\$109,154	\$19,357	21.56%	Reflects the cost share of City overhead which includes: Billing and Accounting, Electricity Used, Information Technology, Mailroom and Postage, Othe Indirect Charges, Printing and Reproduction, Records and Warehousing.
Total Operating Expenses:	\$2,111,969	\$2,237,881	\$125,912	5.96%	
Full-time Positions	9	9	0		No change in total full-time positions from FY2018

CA	CAPITAL IMPROVEMENT PLAN (CIP)							
	Project ID:	Project Description:	Comments					

New projects:

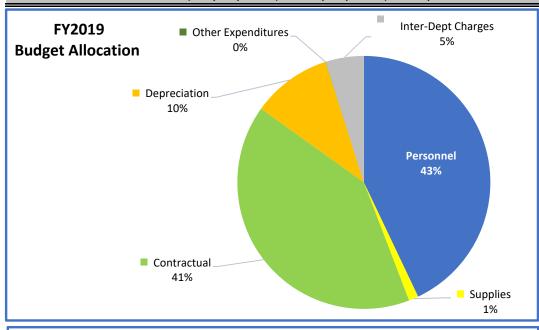
REQSF Equipment Replacement Program

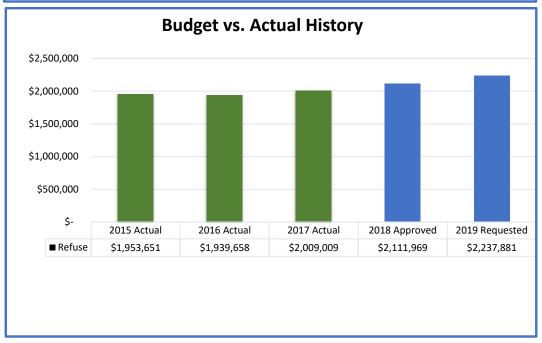
New Project

Ongoing projects

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - REFUSE DIVISION

Object Level	FY2018 Approved	FY2019 Recommended	FY2018 Approved vs. FY2019 Recomm'd	% Incr (Decr) over FY2018 Approved
Personnel Services	\$ 891,611	\$ 960,956	\$ 69,345	7.78%
Materials and Supplies	\$ 24,700	\$ 27,700	\$ 3,000	12.15%
Contractual Services	\$ 856,811	\$ 911,310	\$ 54,499	6.36%
Depreciation	\$ 248,300	\$ 228,011	\$ (20,289)	-8.17%
Other Expenditures	\$ 750	\$ 750	\$ -	0.00%
Sub-total:	\$ 2,022,172	\$ 2,128,727	\$ 106,555	5.27%
Inter-Dept Charges	\$ 89,797	\$ 109,154	\$ 19,357	21.56%
Total:	\$ 2,111,969	\$ 2,237,881	\$ 125,912	5.96%

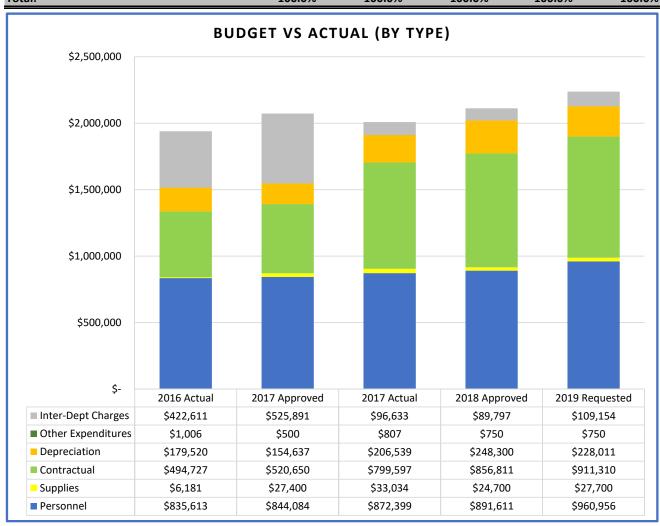




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - REFUSE DIVISION

Object Level (\$)	2016	2017	2017	2018	2019
Object Level (\$)	Actual	Approved	Actual	Approved	Requested
Personnel Services	\$ 835,613	\$ 844,084	\$ 872,399	\$ 891,611	\$ 960,956
Materials and Supplies	\$ 6,181	\$ 27,400	\$ 33,034	\$ 24,700	\$ 27,700
Contractual Services	\$ 494,727	\$ 520,650	\$ 799,597	\$ 856,811	\$ 911,310
Depreciation	\$ 179,520	\$ 154,637	\$ 206,539	\$ 248,300	\$ 228,011
Other Expenditures	\$ 1,006	\$ 500	\$ 807	\$ 750	\$ 750
Sub-Total:	\$ 1,517,047	\$ 1,547,271	\$ 1,912,376	\$ 2,022,172	\$ 2,128,727
Inter-Dept Charges	\$ 422,611	\$ 525,891	\$ 96,633	\$ 89,797	\$ 109,154
Total:	\$ 1,939,658	\$ 2,073,162	\$ 2,009,009	\$ 2,111,969	\$ 2,237,881

Object Level (9/)	2016	2017	2017	2018	2019
Object Level (%)	Actual	Approved	Actual	Approved	Requested
Personnel Services	43.1%	40.7%	43.4%	42.2%	42.9%
Materials and Supplies	0.3%	1.3%	1.6%	1.2%	1.2%
Contractual Services	25.5%	25.1%	39.8%	40.6%	40.7%
Depreciation	9.3%	7.5%	10.3%	11.8%	10.2%
Other Expenditures	0.1%	0.0%	0.0%	0.0%	0.0%
Inter-Dept Charges	21.8%	25.4%	4.8%	4.3%	4.9%
Total:	100.0%	100.0%	100.0%	100.0%	100.0%



PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - <u>REFUSE DIVISION</u>

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$960,956	\$69,345	7.8%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for CWA employees.

Personnel Services (Org: 0141042)

Objec	ct Line	2018	2019	\$ Difference	% Difference
6240	Refuse Workers	\$ 496,003	\$ 518,222	\$ 22,219	4.5%
6580	Service Award	\$ 14,087	\$ 14,987	\$ 900	6.4%
6590	Sick Pay	\$ 3,693	\$ 3,133	\$ (560)	-15.2%
6620	Overtime	\$ 15,000	\$ 17,500	\$ 2,500	16.7%
6880	Uniform Allowance	\$ 5,400	\$ 5,400	\$ -	0.0%
6885	Device Reimbursements	\$ -	\$ 2,450	\$ 2,450	#DIV/0!
6920	Unemployment Comp. Ins.	\$ 2,835	\$ 2,376	\$ (459)	-16.2%
6930	Social Security Taxes	\$ 39,774	\$ 40,943	\$ 1,169	2.9%
6940	City Pension Plan	\$ 97,473	\$ 111,550	\$ 14,077	14.4%
6941	Defined Contribution 401(a) Plan	\$ 10,383	\$ 11,300	\$ 917	8.8%
6950	Term Life Insurance	\$ 2,406	\$ 2,518	\$ 112	4.7%
6960	Group Hospitalization Ins.	\$ 160,896	\$ 189,844	\$ 28,948	18.0%
6961	Long-Term Disability Ins.	\$ 1,083	\$ 947	\$ (136)	-12.6%
6962	Dental Insurance	\$ 9,480	\$ 9,043	\$ (437)	-4.6%
6965	Post-Employment Benefits	\$ 27,215	\$ 24,800	\$ (2,415)	-8.9%
6966	Retirement Health Savings Account	\$ 4,140	\$ 4,200	\$ 60	1.4%
6967	Emergency Room Reimbursements	\$ 1,305	\$ 1,305	\$ -	0.0%
6968	Vision Insurance Premiums	\$ 438	\$ 438	\$ -	0.0%
Perso	nnel Services Total	\$ 891,611	\$ 960,956	\$ 69,345	7.8%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 REFUSE DIVISION

Title	Union	Cuada	2018 # of	2018	2019 # of	2019	Position		\$	%
Title	Affiliation	Grade	Positions	Approved	Positions	Requested	Difference	Difference		Change
FULL TIME POSITIONS										
Refuse Coordinator	AFSCME F/T	10	1.0	\$ 56,311	1.0	\$ 61,765	0.0	\$	5,454	9.7%
Refuse Driver/Collector	AFSCME F/T	8	4.0	\$ 238,135	4.0	\$ 244,840	0.0	\$	6,705	2.8%
Refuse Driver II	AFSCME F/T	8	1.0	\$ 59,704	1.0	\$ 56,542	0.0	\$	(3,162)	-5.3%
Refuse Driver I	AFSCME F/T	6	1.0	\$ 55,275	1.0	\$ 61,210	0.0	\$	5,935	10.7%
Refuse Collector	AFSCME F/T	3	1.0	\$ 44,649	1.0	\$ 49,642	0.0	\$	4,993	11.2%
Maintenance I	AFSCME F/T	1	1.0	\$ 41,929	1.0	\$ 44,223	0.0	\$	2,294	5.5%
Total Full-Time Positions			9.0	\$ 496,003	9.0	\$ 518,222	0.0	\$	22,219	4.5%
OTHER										
Service Award				\$ 14,087		\$ 14,987		\$	900	6.4%
Sick Pay				\$ 3,693		\$ 3,133		\$	(560)	-15.2%
Overtime				\$ 15,000		\$ 17,500		\$	2,500	16.7%
Uniform Allowance				\$ 5,400		\$ 5,400		\$	-	0.0%
Device Reimbursements				\$ -		\$ 2,450		\$	2,450	#DIV/0!
Total Other				\$ 38,180		\$ 43,470		\$	5,290	13.9%
Total All			9.0	\$ 534,183	9.0	\$ 561,692	0.0	\$	27,509	5%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - REFUSE DIVISION

Object Level	FY2019	\$ Change over	% Change
	Recommended	FY2018	% Change
Materials/Supplies:	\$27,700	\$3,000	12.1%
Items necessary to complete tas	sks in this division. Revised cart needs af	ter consideration of ability to repain	rather than replace.

Materials/Supplies (Org: 0141043)

Object Line	2018	2019	\$ Difference	% Difference
7110 Safety Shoes and Supplies	\$ 2,700	\$ 2,700	\$ -	0.0%
7130 Tools, Field Sup., & Small Eq.	\$ 500	\$ 1,500	\$ 1,000	200.0%
7132 Refuse Collection Carts	\$ 21,000	\$ 21,000	\$ -	0.0%
7270 Station Maintenance	\$ 500	\$ 2,500	\$ 2,000	400.0%
Materials/Supplies Total	\$ 24,700	\$ 27,700	\$ 3,000	12.1%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
7110	Safety Shoes and Supplies	\$ 2,700	Purchase of Safety Shoes and Safety Supplies
7130	Tools, Field Sup., & Small Eq.	\$ 1,500	Shovels, Rakes, leaf blowers, etc. for refuse vehicles.
7132	Refuse Collection Carts	\$ 21,000	Yard Waste, Refuse and Recycling carts to replace worn or broken carts
7270	Station Maintenance	\$ 2,500	Materials to keep old transfer station clean and maintained
Total		\$ 27,700	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - REFUSE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Contractual Services:	\$911,310	\$54,499	6.4%

Items necessary to have completed by a third party for this division. Disposal fees have increased based on 2017 quotes and contractual language with DSWA.

Contractual Services (Org: 0141044)

Obje	t Line	2018	2019	\$ Difference	% Difference
8030	Casualty Insurance	\$ 6,736	\$ 6,735	\$ (1)	0.0%
8032	Insurance - Auto	\$ 20,644	\$ 20,645	\$ 1	0.0%
8033	Insurance - Broker	\$ 2,517	\$ 2,520	\$ 3	0.1%
8050	Phone/Communications	\$ 3,000	\$ 550	\$ (2,450)	-81.7%
8130	Building & Equipment Rentals	\$ -	\$ 2,500	\$ 2,500	#DIV/0!
8131	Information Technology	\$ 600	\$ 347	\$ (253)	-42.2%
8190	Refuse Disposal-Landfill	\$ 452,000	\$ 457,000	\$ 5,000	1.1%
8191	Yard Waste	\$ 40,000	\$ 40,000	\$ -	0.0%
8200	Printing & Reproduction	\$ 1,000	\$ 1,000	\$ -	0.0%
8250	Building & Grounds Maintenance	\$ 2,000	\$ 500	\$ (1,500)	-75.0%
8270	Station Maintenance (Pest Control)	\$ 500	\$ 500	\$ -	0.0%
8312	Fleet & Facilities Services	\$ 327,814	\$ 379,013	\$ 51,199	15.6%
Contr	actual Services Total	\$ 856,811	\$ 911,310	\$ 54,499	6.4%

CONTRACTUAL SERVICES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
8030	Casualty Insurance	\$ 	Allocation provided by Finance
8032	Insurance - Auto	\$,	Allocation provided by Finance
8033	Insurance - Broker	\$ 2,520	Allocation provided by Finance
8050	Phone/Communications	\$ 550	Mobile phones and air cards for mobile workforce applications and GIS mapping
8130	Building & Equipment Rentals	\$ 2,500	
8131	Information Technology	\$ 347	Department's share of IT costs, please see Appendix A
8190	Refuse Disposal-Landfill	\$ 457,000	Tipping fees at Cherry Island Landfill
8191	Yard Waste	\$ 40,000	Yard waste processing, grinding, and disposal
8200	Printing & Reproduction	\$ 1,000	Notices, mailers, door hangars, recycle and yard waste stickers
8250	Building & Grounds Maintenance	\$ 500	Maintenance of old transfer station property - now a yard waste facility
8270	Station Maintenance (Pest Control)	\$ 500	Pest removal at old transfer station property
8312	Fleet & Facilities Services	\$ 379,013	Internal service charges for Fleet and Facilities Maintenance
Total		\$ 911,310	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - REFUSE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change					
Depreciation Expense:	\$248,300	\$93,663	60.6%					
Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each								
department. This amount will fluc	tuate depending on asset additions an	diretirements, cost of assets and us	eful life of the assets					

Other Charges (Org: 0141045) - *Depreciation Expense Only

Object Line	2018	2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 154,637	\$ 248,300	\$ 93,663	60.6%
Other Charges Total *	\$ 154,637	\$ 248,300	\$ 93,663	60.6%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - REFUSE DIVISION

Other Charges: \$750 Training helps keep our staff up to date on current trends and safety topics.	\$0 0.0%
Training helps keep our staff up to date on current trends and safety topics.	70 0.070

Other Charges (Org: 0141045) - *Excluding Depreciation Expense

Object Line	2018	2019	\$ Difference	% Difference
9070 Training	\$ 750 \$	750	-	0.0%
Other Charges Total *	\$ 750 \$	750	-	0.0%

OTHER CHARGES DETAIL

Object Code - Description	Amount Requested	Use of Funds (Description)
9070 Training	\$ 750	Employee group training for safety and job effectiveness
Total	\$ 750	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - REFUSE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$109,154	\$19,357	21.6%

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Mailroom and Postage: Costs associated with maintaining and operating the City's postal services are allocated based on previously observed percentages of usage by each department.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Printing and Reproduction: The costs of supplies for copiers is allocated based on previously observed percentage of use by each department.

Records: Allocation of Records related tasks are based on departmental determination of assigned departments, divisions, and responsibilities.

Warehousing: Operating costs of the warehouse function allocated to those divisions that store inventory items.

Inter-Dept. Charges

Object Line	2018	2019	\$ Difference	% Difference
Billings and Accounting	\$ 18,348	\$ 26,451	\$ 8,103	44.2%
Electric Used - Transfer Station	\$ 745	\$ 783	\$ 38	5.1%
Information Technology	\$ 46,274	\$ 57,782	\$ 11,508	24.9%
Mailroom and Postage	\$ -	\$ 1,129	\$ 1,129	#DIV/0!
Other Indirect Charges	\$ 23,128	\$ 20,154	\$ (2,974)	-12.9%
Printing and Reproduction	\$ 153	\$ 153	\$ -	0.0%
Records	\$ -	\$ 1,610	\$ 1,610	#DIV/0!
Warehousing	\$ 1,149	\$ 1,092	\$ (57)	-5.0%
Inter-Dept. Charges Total	\$ 89,797	\$ 109,154	\$ 19,357	21.6%

STREET DIVISION

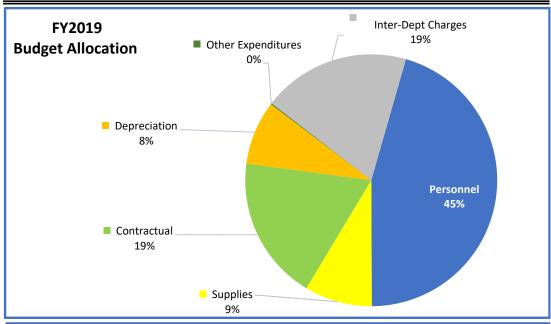
CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STREET DIVISION EXECUTIVE SUMMARY

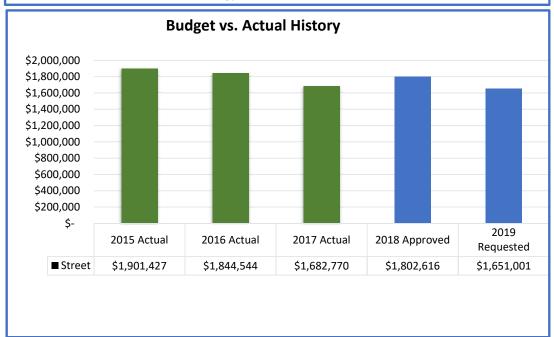
EXPENDITURE BUDGET							
Object Level Detail:	FY2018 Appr'd	FY2019 Rec'd	FY2018 App'd vs. FY2019 Rec'd	% +/- over FY2018 Appr'd	Comments		
Full-time Wages	\$440,949	\$398,021	-\$42,928	-9.74%			
Part-time Wages	\$48,000	\$33,000	-\$15,000	-31.25%			
Other Wages	\$56,760	\$55,311	-\$1,449	-2.55%			
Benefits	\$301,494	\$264,659	-\$36,835	-12.22%			
Personnel Services	\$847,203	\$750,991	-\$96,212	-11.36%	*Sum of above listed wages and benefits		
Materials and Supplies	\$119,800	\$143,300	\$23,500	19.62%			
Contractual Services	\$312,026	\$305,768	-\$6,258	-2.01%			
Depreciation	\$162,200	\$135,167	-\$27,033	-16.67%	*Finance Calculation		
Other Expenditures	\$2,500	\$2,500	\$0	0.00%			
Sub-Total:	\$1,443,729	\$1,337,726	-\$106,003	-7.34%			
Inter-Dept. Charges	\$358,887	\$313,275	(\$45,612)	-12.71%	Reflects the cost share of City overhead which includes: Billing and Accounting, Electricity Used, Information Technology, Mailroom and Postage, Othe Indirect Charges, Printing and Reproduction, Records, Street Lights and Traffic Signals and Warehousing.		
Total Operating Expenses:	\$1,802,616	\$1,651,001	-\$151,615	-8.41%			
Full-time Positions	8	7	-1				

Project ID:	Project Description:	Comments				
New projects:						
H1901	Annual Street Program	Perpetual Project				
H1902	ADA Accessibility Transition Plan	Perpetual Project				
H1903	Bobcat	New Project				
Ongoing projects						
H1801	Annual Street Program	Projected to be completed by EOY 2018				
H1802	ADA Accessibility Transition Plan	Projected to be completed by EOY 2018				
H1503	Equipment Replacement Program	Project listed in 2019-2023 CIP				
HEQSF	Equipment Replacement Program	Project listed in 2019-2023 CIP				

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - STREET DIVISION

Object Level	FY2018 Approved	FY2019 Recommended	١	FY2018 Approved vs. FY2019 Recomm'd	% Incr (Decr) over FY2018 Approved
Personnel Services	\$ 847,203	\$ 750,991	\$	(96,212)	-11.36%
Materials and Supplies	\$ 119,800	\$ 143,300	\$	23,500	19.62%
Contractual Services	\$ 312,026	\$ 305,768	\$	(6,258)	-2.01%
Depreciation	\$ 162,200	\$ 135,167	\$	(27,033)	-16.67%
Other Expenditures	\$ 2,500	\$ 2,500	\$	-	0.00%
Sub-total:	\$ 1,443,729	\$ 1,337,726	\$	(106,003)	-7.34%
Inter-Dept Charges	\$ 358,887	\$ 313,275	\$	(45,612)	-12.71%
Total:	\$ 1,802,616	\$ 1,651,001	\$	(151,615)	-8.41%

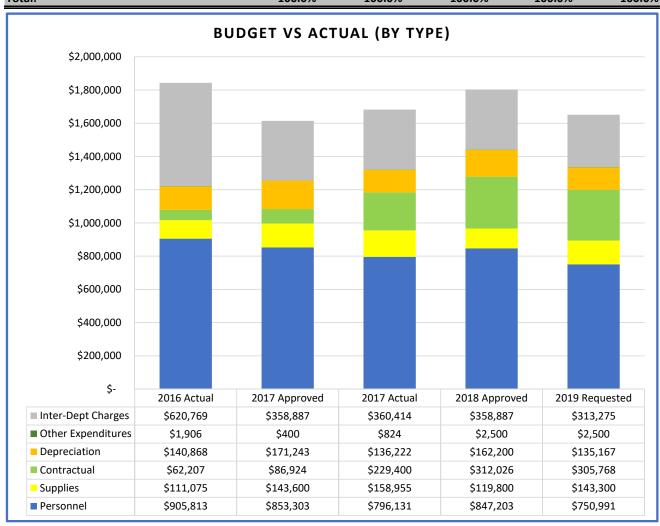




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - STREET DIVISION

Object Loyal (\$)		2016	2017	2017	2018	2019
Object Level (\$)		Actual	Approved	Actual	Approved	Requested
Personnel Services	\$	905,813	\$ 853,303	\$ 796,131	\$ 847,203	\$ 750,991
Materials and Supplies	\$	111,075	\$ 143,600	\$ 158,955	\$ 119,800	\$ 143,300
Contractual Services	\$	62,207	\$ 86,924	\$ 229,400	\$ 312,026	\$ 305,768
Depreciation	\$	140,868	\$ 171,243	\$ 136,222	\$ 162,200	\$ 135,167
Other Expenditures	\$	1,906	\$ 400	\$ 824	\$ 2,500	\$ 2,500
Sub-Total:	\$	1,221,869	\$ 1,255,470	\$ 1,321,532	\$ 1,443,729	\$ 1,337,726
Inter-Dept Charges	\$	620,769	\$ 358,887	\$ 360,414	\$ 358,887	\$ 313,275
Total:	\$	1,842,638	\$ 1,614,357	\$ 1,681,946	\$ 1,802,616	\$ 1,651,001

Object Level (%)	2016	2017	2017	2018	2019
Object Level (%)	Actual	Approved	Actual	Approved	Requested
Personnel Services	49.2%	52.9%	47.3%	47.0%	45.5%
Materials and Supplies	6.0%	8.9%	9.5%	6.6%	8.7%
Contractual Services	3.4%	5.4%	13.6%	17.3%	18.5%
Depreciation	7.6%	10.6%	8.1%	9.0%	8.2%
Other Expenditures	0.1%	0.0%	0.0%	0.1%	0.2%
Inter-Dept Charges	33.7%	22.2%	21.4%	19.9%	19.0%
Total:	100.0%	100.0%	100.0%	100.0%	100.0%



PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - <u>STREET DIVISION</u>

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$750,991	-\$96,212	-11.4%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for CWA employees.

Personnel Services (Org: 0131052)

Obje	ct Line	2018	2019	\$ Difference	% Difference
6020	Supervisory	\$ 60,217	\$ 64,659	\$ 4,442	7.4%
6230	Maintenance Workers	\$ 380,732	\$ 333,362	\$ (47,370)	-12.4%
6580	Service Award	\$ 9,389	\$ 6,601	\$ (2,788)	-29.7%
6590	Sick Pay	\$ 2,991	\$ 2,470	\$ (521)	-17.4%
6610	Seasonal Workers	\$ 48,000	\$ 33,000	\$ (15,000)	-31.3%
6620	Overtime	\$ 40,000	\$ 40,000	\$ -	0.0%
6880	Uniform Allowance	\$ 4,380	\$ 3,840	\$ (540)	-12.3%
6885	Device Reimbursement	\$ -	\$ 2,400	\$ 2,400	#DIV/0!
6920	Unemployment Compensation Ins	\$ 2,520	\$ 1,848	\$ (672)	-26.7%
6930	Social Security Taxes	\$ 41,745	\$ 36,183	\$ (5,562)	-13.3%
6940	City Pension Plan	\$ 92,937	\$ 73,900	\$ (19,037)	-20.5%
6941	Defined Contrib 401A Plan	\$ 7,480	\$ 11,373	\$ 3,893	52.0%
6950	Term Life Insurance	\$ 2,143	\$ 1,930	\$ (213)	-9.9%
6960	Group Hospitalization Ins	\$ 119,091	\$ 110,046	\$ (9,045)	-7.6%
6961	Ltd Insurance	\$ 961	\$ 727	\$ (234)	-24.3%
6962	Dental Insurance	\$ 7,162	\$ 5,915	\$ (1,247)	-17.4%
6964	HSA City Contributions	\$ 750	\$ 750	\$ -	0.0%
6965	Post-Employment Benefits	\$ 22,380	\$ 16,430	\$ (5,950)	-26.6%
6966	Retirement HIth Sav Acct	\$ 2,760	\$ 4,200	\$ 1,440	52.2%
6967	Reimbursement-Emergency Room	\$ 1,160	\$ 1,015	\$ (145)	-12.5%
6968	Vision Insurance Premiums	\$ 405	\$ 342	\$ (63)	-15.6%
Perso	nnel Services Total	\$ 847,203	\$ 750,991	\$ (96,212)	-11.4%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 STREET DIVISION

Title	Union	Grade	2018 # of		2018		2019			\$	%
The	Affiliation	Grade	Positions		Approved	Positions	Requested	Difference	I	Difference	Change
FULL TIME DOCUTIONS											
FULL TIME POSITIONS		4.0		_	co o -						-
PWWR Supervisor	MGMT	19	1.0	\$	60,217	1.0	\$ 64,659	0.0	\$	4,442	7.4%
Heavy Equipment Mech/Operator	AFSCME F/T	10	1.0	\$	54,482	1.0	\$ 61,765	0.0	\$	7,283	13.4%
Maintenance IV	AFSCME F/T	8	2.0	\$	119,130	2.0	\$ 122,420	0.0	\$	3,290	2.8%
Maintenance I	AFSCME F/T	5		\$	-	1.0	\$ 44,223	1.0	\$	44,223	#DIV/0!
Equipment Operator	AFSCME F/T	3	4.0	\$	207,120	2.0	\$ 104,954	(2.0)	\$	(102,166)	-49.3%
Total Full-Time Positions			8.0	\$	440,949	7.0	\$ 398,021	(1.0)	\$	(42,928)	-9.7%
PART-TIME FUNDING											
Seasonal				\$	48,000		\$ 33,000		\$	(15,000)	-31.3%
Total Part-Time Funding				\$	48,000		\$ 33,000		\$	(15,000)	-31.3%
OTHER											
Service Award				\$	9,389		\$ 6,601		\$	(2,788)	-29.7%
Sick Pay				\$	2,991		\$ 2,470		\$	(521)	-17.4%
Overtime				\$	40,000		\$ 40,000		\$	-	0.0%
Uniform Allowance				\$	4,380		\$ 3,840		\$	(540)	-12.3%
Device Reimbursements				\$	-		\$ 2,400		\$	2,400	#DIV/0!
Total Other				\$	56,760		\$ 55,311		\$	(1,449)	-2.6%
Total All			8.0	\$	545,709	7.0	\$ 486,332	(1.0)	\$	(59,377)	-11%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - <u>STREET DIVISION</u>

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change						
Materials/Supplies:	\$143,300	\$23,500	19.6%						
Materials necessary to complete division work. Street sign inventory is complete and replacement program for compliance with									

Materials necessary to complete division work. Street sign inventory is complete and replacement program for compliance with retroreflectivity standards. Salt budget is down due to 2017 funding and current inventory levels.

Materials/Supplies (Org: 0131053)

Obje	ct Line	2018	2019	\$ Difference	% Difference
7110	Safety Shoes & Supplies	\$ 3,300	\$ 3,500	\$ 200	6.1%
7130	Small Equip/ Tools/ Field Sup	\$ 3,200	\$ 10,500	\$ 7,300	228.1%
7340	Street Sign Maint/Striping	\$ 24,000	\$ 28,000	\$ 4,000	16.7%
7380	Street Maintenance Supplies	\$ 30,000	\$ 60,000	\$ 30,000	100.0%
7450	Salt/Snow Removal Supplies	\$ 40,000	\$ 40,000	\$ -	0.0%
7470	Curb & Gutter Maint Supplies	\$ 18,000	\$ -	\$ (18,000)	-100.0%
7550	Miscellaneous Supplies	\$ 1,300	\$ 1,300	\$ -	0.0%
Mate	rials/Supplies Total	\$ 119,800	\$ 143,300	\$ 23,500	19.6%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
7110	Safety Shoes & Supplies	\$ 3,500	Safety shoes, vests, gloves for jobsite safety
7130	Small Equip/ Tools/ Field Sup	\$ 10,500	Small paving equipment, shovels, rakes, etc.
7340	Street Sign Maint/Striping	\$ 28,000	Street sign replacement and striping areas
7380	Street Maintenance Supplies	\$ 60,000	Asphalt, bricks, mortar, cold patch
7450	Salt/Snow Removal Supplies	\$ 40,000	Salt
7550	Miscellaneous Supplies	\$ 1,300	Paint, wood, nails, mailboxes
Total		\$ 143,300	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - STREET DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change							
Contractual Services:	\$305,768	-\$6,258	-2.0%							
Contractual items necessary to complete street maintenance. Snow and Ice removal is for clearing Main Street in large events.										

Contractual Services (Org: 0131054)

	1401441 361 11063 (016. 013103-1)				
Obje	ct Line	2018	2019	\$ Difference	% Difference
8030	Casualty Insurance	\$ 7,275	\$ 7,275	\$ -	0.0%
8031	Insurance - Property	\$ 4,228	\$ 4,230	\$ 2	0.0%
8032	Insurance - Auto	\$ 27,163	\$ 27,165	\$ 2	0.0%
8033	Insurance - Broker	\$ 3,554	\$ 3,555	\$ 1	0.0%
8050	Phone/Communications	\$ 3,000	\$ 600	\$ (2,400)	-80.0%
8130	Bldg & Equip Rental	\$ 5,000	\$ 5,000	\$ -	0.0%
8131	IT Expense Contractual	\$ 5,131	\$ 5,219	\$ 88	1.7%
8312	Fleet & Facilities Services	\$ 220,675	\$ 216,724	\$ (3,951)	-1.8%
8380	Street Maintenance-Cont Svc	\$ 15,000	\$ 25,000	\$ 10,000	66.7%
8450	Snow & Ice Removal-Cont Svc	\$ 20,000	\$ 10,000	\$ (10,000)	-50.0%
8550	Miscellaneous Contracted Svc	\$ 1,000	\$ 1,000	\$ -	0.0%
Contr	actual Services Total	\$ 312,026	\$ 305,768	\$ (6,258)	-2.0%

CONTRACTUAL SERVICES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
8030	Casualty Insurance	\$ 7,275	Allocation provided by Finance
8031	Insurance - Property	\$ 4,230	Allocation provided by Finance
8032	Insurance - Auto	\$ 27,165	Allocation provided by Finance
8033	Insurance - Broker	\$ 3,555	Allocation provided by Finance
8050	Phone/Communications	\$ 600	Mobile phones and air cards for mobile workforce applications and GIS mapping
8130	Bldg & Equip Rental	\$ 5,000	Heavy or specialty construction equipment rental
8131	IT Expense Contractual	\$ 5,219	Department's share of IT costs, please see Appendix A
8312	Fleet & Facilities Services	\$ 216,724	Internal service charges for Fleet and Facilities Maintenance
8380	Street Maintenance-Cont Svc	\$ 25,000	Street repairs that exceed the capabilities of our internal crews due to either the scope of the repairs or workload
8450	Snow & Ice Removal-Cont Svc	\$ 10,000	Snow hauling from Main Street
8550	Miscellaneous Contracted Svc	\$ 1,000	Items that do not fall into the above categories
Total		\$ 305,768	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - STREET DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change						
Depreciation Expense:	\$135,167	-\$27,033	-16.7%						
Depreciation expanse is calculated annually by the Department of Finance and is based upon the equipment utilized by each									

Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each department. This amount will fluctuate depending on asset additions and retirements, cost of assets and useful life of the assets.

Other Charges (Org: 0131055) - *Depreciation Expense Only

Object Line	2018	2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 162,200	\$ 135,167	\$ (27,033)	-16.7%
Other Charges Total *	\$ 162,200	\$ 135,167	\$ (27,033)	-16.7%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - <u>STREET DIVISION</u>

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Other Charges:	\$2,500	\$0	0.0%
Training helps keep our staff up	to date on current trends and safety topic	cs.	

Other Charges (Org: 0131055) - *Excluding Depreciation Expense

Object Line	2018	2019	\$ Difference	% Difference
9070 Training	\$ 2,500 \$	2,500 \$	-	0.0%
Other Charges Total *	\$ 2,500 \$	2,500 \$	-	0.0%

OTHER CHARGES DETAIL

Object Code - Description	Amount Requested	Use of Funds (Description)
9070 Training	\$ 2,500	Trade shows, conferences, license upkeep
Total	\$ 2,500	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - <u>STREET DIVISION</u>

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$313,275	-\$45,612	-12.7%

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Mailroom and Postage: Costs associated with maintaining and operating the City's postal services are allocated based on previously observed percentages of usage by each department.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Printing and Reproduction: The costs of supplies for copiers is allocated based on previously observed percentage of use by each department.

Records: Allocation of Records related tasks are based on departmental determination of assigned departments, divisions, and responsibilities.

Street Lights and Traffic Signals: Cost of electricity plus maintenance costs for these devices incurred by the Electric Department charged at 110%.

Warehousing: Operating costs of the warehouse function allocated to those divisions that store inventory items.

Inter-Dept. Charges

<u> </u>				
Object Line	2018	2019	\$ Difference	% Difference
Billings and Accounting	\$ 15,593	\$ 19,441	\$ 3,848	24.7%
Electric Used - Transfer Station	\$ 751	\$ 688	\$ (63)	-8.4%
Information Technology	\$ 46,274	\$ 51,364	\$ 5,090	11.0%
Mailroom and Postage	\$ -	\$ 822	\$ 822	#DIV/0!
Other Indirect Charges	\$ 118,095	\$ 94,245	\$ (23,850)	-20.2%
Printing and Reproduction	\$ 153	\$ 153	\$ -	0.0%
Records	\$ -	\$ 1,173	\$ 1,173	#DIV/0!
Street Lights and Traffic Signals	\$ 176,473	\$ 143,812	\$ (32,661)	-18.5%
Warehousing	\$ 1,548	\$ 1,577	\$ 29	1.9%
Inter-Dept. Charges Total	\$ 358,887	\$ 313,275	\$ (45,612)	-12.7%

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ENGINEERING DIVISION

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - ENGINEERING DIVISION EXECUTIVE SUMMARY

EXPENDITURE BUDGET					
Object Level Detail:	FY2018	FY2019	FY2018 App'd	% +/- over	Comments
	Appr'd	Rec'd	vs. FY2019 Rec'd	FY2018 Appr'd	
Full-time Wages	\$488,337	\$512,819	\$24,482	5.01%	No change in total full-time positions from FY2018
Part-time Wages	\$19,500	\$13,000	-\$6,500	-33.33%	
Other Wages	\$29,681	\$31,150	\$1,469	4.95%	
Benefits	\$280,432	\$294,671	\$14,239	5.08%	
Personnel Services	\$817,950	\$851,640	\$33,690	4.12%	*Sum of above listed wages and benefits
Materials and Supplies	\$6,500	\$7,500	\$1,000	15.38%	
Contractual Services	\$100,455	\$118,914	\$18,459	18.38%	
Depreciation	\$19,800	\$15,168	-\$4,632	-23.39%	*Finance Calculation
Other Expenditures	\$8,100	\$9,000	\$900	11.11%	
Sub-Total:	\$952,805	\$1,002,222	\$49,417	5.19%	
Inter-Dept. Charges	\$37,861	\$51,915	\$14,054	37.12%	Reflects the cost share of City overhead which includes: Billing and Accounting, Electricity Used, Information Technology, Mailroom and Postage, Othe Indirect Charges, Printing and Reproduction and Records.
Total Operating Expenses:	\$990,666	\$1,054,137	\$63,471	6.41%	
Full-time Positions	8	8	0		No change in total full-time positions from FY2018

CA	PITAL IMPROVEMENT PI	LAN (CIP)	
	Project ID:	Project Description:	Comments

New projects:

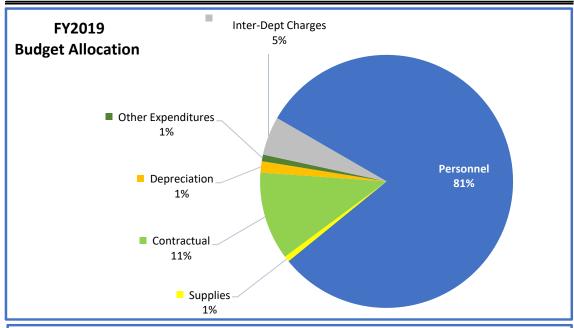
TEQSF Equipment Replacement Program

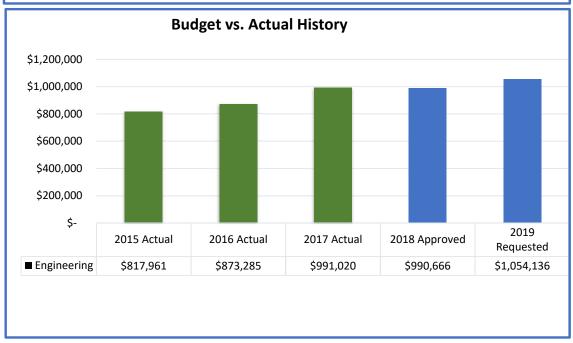
New Project

Ongoing projects

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - ENGINEERING DIVISION

Object Level	FY2018 Approved	FY2019 Recommended	FY2018 Approved vs. FY2019 Recomm'd	% Incr (Decr) over FY2018 Approved
Personnel Services	\$ 817,950	\$ 851,639	\$ 33,689	4.12%
Materials and Supplies	\$ 6,500	\$ 7,500	\$ 1,000	15.38%
Contractual Services	\$ 100,455	\$ 118,914	\$ 18,459	18.38%
Depreciation Expense	\$ 19,800	\$ 15,168	\$ (4,632)	-23.39%
Other Expenditures	\$ 8,100	\$ 9,000	\$ 900	11.11%
Sub-total:	\$ 952,805	\$ 1,002,221	\$ 49,416	5.19%
Inter-Dept Charges	\$ 37,861	\$ 51,915	\$ 14,054	37.12%
Total:	\$ 990,666	\$ 1,054,136	\$ 63,470	6.41%

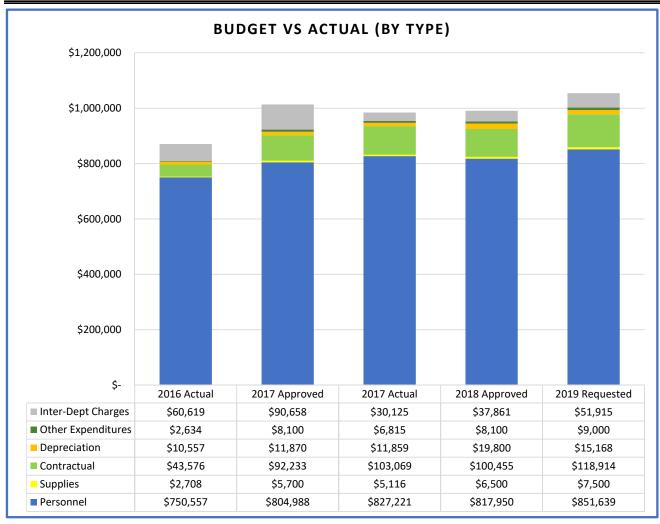




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - ENGINEERING DIVISION

Object Level (\$)		2016	2017	2017	2018	2019
Object Level (5)		Actual	Approved	Actual	Approved	Requested
Personnel Services	\$	750,557	\$ 804,988	\$ 827,221	\$ 817,950	\$ 851,639
Materials and Supplies	\$	2,708	\$ 5,700	\$ 5,116	\$ 6,500	\$ 7,500
Contractual Services	\$	43,576	\$ 92,233	\$ 103,069	\$ 100,455	\$ 118,914
Depreciation	\$	10,557	\$ 11,870	\$ 11,859	\$ 19,800	\$ 15,168
Other Expenditures	\$	2,634	\$ 8,100	\$ 6,815	\$ 8,100	\$ 9,000
Sub-Total:	\$	810,032	\$ 922,891	\$ 954,080	\$ 952,805	\$ 1,002,221
Inter-Dept Charges	\$	60,619	\$ 90,658	\$ 30,125	\$ 37,861	\$ 51,915
Total:	\$	870,651	\$ 1,013,549	\$ 984,205	\$ 990,666	\$ 1,054,136

Object Level (%)	2016	2017	2017	2018	2019
Object Level (%)	Actual	Approved	Actual	Approved	Requested
Personnel Services	86.2%	79.4%	84.0%	82.6%	80.8%
Materials and Supplies	0.3%	0.6%	0.5%	0.7%	0.7%
Contractual Services	5.0%	9.1%	10.5%	10.1%	11.3%
Depreciation	1.2%	1.2%	1.2%	2.0%	1.4%
Other Expenditures	0.3%	0.8%	0.7%	0.8%	0.9%
Inter-Dept Charges	7.0%	8.9%	3.1%	3.8%	4.9%
Total:	100.0%	100.0%	100.0%	100.0%	100.0%



PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - ENGINEERING DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$851,639	\$33,689	4.1%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for CWA employees.

Personnel Services (Org: 0131072)

Objec	t Line	2018	2019	\$ Difference	% Difference
6020	Supervisory	\$ 82,413	\$ 86,378	\$ 3,965	4.8%
6030	Engineering/Technical	\$ 171,172	\$ 231,442	\$ 60,270	35.2%
6210	Inspectors	\$ 234,752	\$ 194,998	\$ (39,754)	-16.9%
6580	Service Award	\$ 5,609	\$ 6,169	\$ 560	10.0%
6590	Sick Pay	\$ 2,992	\$ 2,941	\$ (51)	-1.7%
6615	Interns	\$ 19,500	\$ 13,000	\$ (6,500)	-33.3%
6620	Overtime	\$ 20,000	\$ 20,000	\$ -	0.0%
6880	Uniform Allowance	\$ 1,080	\$ 1,440	\$ 360	33.3%
6885	Device Reimbursements	\$ -	\$ 600	\$ 600	#DIV/0!
6920	Unemployment Comp. Ins.	\$ 2,520	\$ 1,979	\$ (541)	-21.5%
6930	Social Security Taxes	\$ 39,311	\$ 40,661	\$ 1,350	3.4%
6940	City Pension Plan	\$ 54,659	\$ 62,520	\$ 7,861	14.4%
6941	Defined Contribution 401(a) Plan	\$ 22,107	\$ 23,219	\$ 1,112	5.0%
6950	Term Life Insurance	\$ 2,469	\$ 2,381	\$ (88)	-3.6%
6960	Group Hospitalization Ins.	\$ 129,751	\$ 134,197	\$ 4,446	3.4%
6961	Long-Term Disability Ins.	\$ 1,144	\$ 935	\$ (209)	-18.3%
6962	Dental Insurance	\$ 6,721	\$ 7,023	\$ 302	4.5%
6963	Flexible Spending Account	\$ 156	\$ 95	\$ (61)	-39.1%
6965	Post-Employment Benefits	\$ 13,162	\$ 13,900	\$ 738	5.6%
6966	Retirement Health Savings Account	\$ 6,900	\$ 6,300	\$ (600)	-8.7%
6967	Emergency Room Reimbursements	\$ 1,160	\$ 1,087	\$ (73)	-6.3%
6968	Vision Insurance Premiums	\$ 372	\$ 374	\$ 2	0.5%
Perso	nnel Services Total	\$ 817,950	\$ 851,639	\$ 33,689	4.1%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 ENGINEERING DIVISION

Title	Union	Grade	2018 # of	2018		2019			\$	%
	Affiliation		Positions	Approved	Positions	Requested	Difference	ט	ifference	Change
FULL TIME POSITIONS										
Field Operations Superintendent	MGMT	22	1.0	\$ 82,413	1.0	\$ 86,378	0.0	\$	3,965	4.8%
Planning and Design Engineer	MGMT	22	1.0	\$ 79,251	1.0	\$ 83,682	0.0	\$	4,431	5.6%
Engineering Technician II *	CWA F/T	17	1.0	\$ 28,355	1.0	\$ 30,270	0.0	\$	1,915	6.8%
Chief Surveyor	CWA F/T	15	1.0	\$ 66,672	1.0	\$ 70,327	0.0	\$	3,655	5.5%
Utility Inspector I	CWA F/T	14	3.0	\$ 168,080	3.0	\$ 177,643	0.0	\$	9,563	5.7%
Engineering Technician	CWA F/T	14	1.0	\$ 63,566	1.0	\$ 64,519	0.0	\$	953	1.5%
Total Full-Time Positions			8.0	\$ 488,337	8.0	\$ 512,819	0.0	\$	24,482	5.0%
PART-TIME FUNDING										
Interns				\$ 19,500		\$ 13,000		\$	(6,500)	-33.3%
Total Part-Time Funding				\$ 19,500		\$ 13,000		\$	(6,500)	-33.3%
OTHER										
Service Award				\$ 5,609		\$ 6,169		\$	560	10.0%
Sick Pay				\$ 2,992		\$ 2,941		\$	(51)	-1.7%
Overtime				\$ 20,000		\$ 20,000		\$	-	0.0%
Uniform Allowance				\$ 1,080		\$ 1,440		\$	360	33.3%
Device Reimbursements				\$ -		\$ 600		\$	600	#DIV/0!
Total Other				\$ 29,681		\$ 31,150		\$	1,469	4.9%
Total All			8.0	\$ 537,518	8.0	\$ 556,969	0.0	\$	19,451	3.6%

^{*}Please be advised that the Engineering Technician II position will be partially funded through Capital in 2019.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - ENGINEERING DIVISION

Object Loyel	FY2019	\$ Change over	% Change				
Object Level	Recommended	FY2018	% Change				
Materials/Supplies:	\$7,500	\$1,000	15.4%				
Materials necessary to complete inspections, design and contract administration. Slight increase for safety equipment.							

Materials/Supplies (Org: 0131073)

Object Line	2018	2019	\$ Difference	% Difference
7110 Safety Shoes & Supplies	\$ 1,500	\$ 2,500	\$ 1,000	66.7%
7130 Tools, Field Sup., & Small Eq.	\$ 2,000	\$ 2,000	\$ -	0.0%
7150 Office Supplies	\$ 3,000	\$ 3,000	\$ -	0.0%
Materials/Supplies Total	\$ 6,500	\$ 7,500	\$ 1,000	15.4%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description		Amount Requested	Use of Funds (Description)
7110	Safety Shoes & Supplies	\$		Safety shoes, vests, hard hats required on jobsites
7130	Tools, Field Sup., & Small Eq.	\$	2,000	Measuring wheels, tape measures, etc.
7150	Office Supplies	\$	3,000	Pencils, paper, shipping labels
Total		\$	7,500	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - ENGINEERING DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Contractual Services:	\$118,914	\$18,459	18.4%

Items necessary to have completed by a third party for this division. Groundwater monitoring necesssary due to Brownfield Development Agreement for the sites listed.

Contractual Services (Org: 0131074)

Objec	t Line	2018	2019	\$ Difference	% Difference
8020	Advertising	\$ 1,100	\$ 1,100	\$ -	0.0%
8030	Casualty Insurance	\$ 12,011	\$ 12,010	\$ (1)	0.0%
8032	Insurance - Auto	\$ 6,519	\$ 6,520	\$ 1	0.0%
8033	Insurance - Broker	\$ 964	\$ 965	\$ 1	0.1%
8050	Phone/Communications	\$ 2,000	\$ 1,400	\$ (600)	-30.0%
8120	Outside Engineering	\$ 47,600	\$ 47,600	\$ -	0.0%
8131	Information Technology Cont'l	\$ 16,182	\$ 19,864	\$ 3,682	22.8%
8312	Fleet & Facilities Services	\$ 14,079	\$ 29,455	\$ 15,376	109.2%
Contr	actual Services Total	\$ 100,455	\$ 118,914	\$ 18,459	18.4%

CONTRACTUAL SERVICES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
8020	Advertising	\$ 1,100	Advertisement for contracts
8030	Casualty Insurance	\$ 12,010	Allocation provided by Finance
8032	Insurance - Auto	\$ 6,520	Allocation provided by Finance
8033	Insurance - Broker	\$ 965	Allocation provided by Finance
8050	Phone/Communications	\$	Mobile phones and air cards for mobile workforce applications and GIS mapping
8120	Outside Engineering	\$ 47,600	Ongoing brownfield groundwater and soil sampling at McKees Landfill and Curtis Park, pavement management optimization for Annual Street Contract
8131	Information Technology Cont'l	\$ 19,864	Department's share of IT costs, please see Appendix A
8312	Fleet & Facilities Services	\$ 29,455	Internal service charges for Fleet and Facilities Maintenance
Total		\$ 118,914	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - ENGINEERING DIVISION

Object Level	FY2019	\$ Change over	% Change				
Object Level	Recommended	FY2018	∕₀ Change				
Depreciation Expense:	\$15,168	-\$4,632	-23.4%				
Depreciation expense is calculate	Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each						

Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each department. This amount will fluctuate depending on asset additions and retirements, cost of assets and useful life of the assets.

Other Charges (Org: 0131075) - *Depreciation Expense Only

Object Line	2018	2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 19,800 \$	15,168	\$ (4,632)	-23.4%
Other Charges Total *	\$ 19,800 \$	15,168	\$ (4,632)	-23.4%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - ENGINEERING DIVISION

Object Level	FY2019	\$ Change over	% Change
	Recommended	FY2018	% Change
Other Charges:	\$9,000	\$900	11.1%
Training helps keep our staff u	up to date on current trends and safety top	ics.	

Other Charges (Org: 0131075) - *Excluding Depreciation Expense

Object Line	2018		2019	\$ Difference	% Difference
9070 Training	\$ 8,100 \$	5	9,000	\$ 900	11.1%
Other Charges Total *	\$ 8,100 \$	\$	9,000	\$ 900	11.1%

OTHER CHARGES DETAIL

Object Code - Description	Amount Requested	Use of Funds (Description)
9070 Training	\$ 9,000	Ongoing license upkeep, job training, industry trend updates
Total	\$ 9,000	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - ENGINEERING DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$51,915	\$14,054	37.1%

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Mailroom and Postage: Costs associated with maintaining and operating the City's postal services are allocated based on previously observed percentages of usage by each department.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Printing and Reproduction: The costs of supplies for copiers is allocated based on previously observed percentage of use by each department.

Records: Allocation of Records related tasks are based on departmental determination of assigned departments, divisions, and responsibilities.

Inter-Dept. Charges

Object Line	2018	2019	\$ Difference	% Difference
Billings and Accounting	\$ 13,930	\$ 17,615	\$ 3,685	26.5%
Electricity Used	\$ 745	\$ 683	\$ (62)	-8.3%
Information Technology	\$ 46,274	\$ 54,573	\$ 8,299	17.9%
Mailroom and Postage	\$ -	\$ 738	\$ 738	#DIV/0!
Other Indirect Charges	\$ (23,241)	\$ (22,900)	\$ 341	-1.5%
Printing and Reproduction	\$ 153	\$ 153	\$ -	0.0%
Records	\$ -	\$ 1,053	\$ 1,053	#DIV/0!
Inter-Dept. Charges Total	\$ 37,861	\$ 51,915	\$ 14,054	37.1%

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WATER DIVISION

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - WATER DEPARTMENT EXECUTIVE SUMMARY

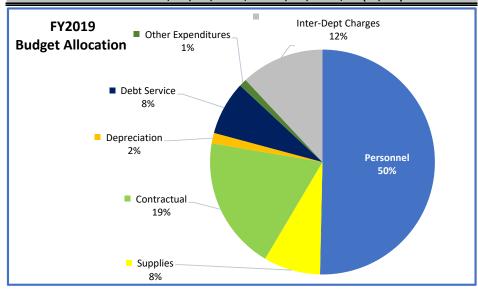
Object Level Details	FY2018	FY2019	FY2018 App'd	% +/- over	Comments
Object Level Detail:	Appr'd	Rec'd	vs. FY2019 Rec'd	FY2018 Appr'd	Comments
Full-time Wages	\$1,211,397	\$1,358,506	\$147,109	12.14%	
Part-time Wages	\$50,135	\$51,637	\$1,502	3.00%	
Other Wages	\$226,011	\$241,065	\$15,054	6.66%	
Benefits	\$760,382	\$844,073	\$83,691	11.01%	
Personnel Services	\$2,247,925	\$2,495,281	\$247,356	11.00%	*Sum of above listed wages and benefits
Materials and Supplies	\$370,500	\$404,750	\$34,250	9.24%	Increased cost of chemicals for water treatment.
Contractual Services	\$953,262	\$949,059	-\$4,203	-0.44%	
Depreciation	\$119,700	\$74,753	-\$44,947	-37.55%	*Finance Calculation
Other Expenditures	\$1,790,270	\$1,802,916	\$12,646	0.71%	
Sub-Total:	\$5,481,657	\$5,726,759	\$245,102	4.47%	
Inter-Dept. Charges	\$935,741	\$593,684	(\$342,057)	-36.55%	Reflects the cost share of City overhead which includes: Administration Overhead, Billing and Accounting, Electricity Used, Information Technology, Other Indirect Charges, Printing and Reproduction and Warehousing.
Total Operating Expenses:	\$6,417,398	\$6,320,443	(\$96,955)	-1.51%	
Full-time Positions	19	21	2		+2 FTE in FY2019 due to realignments: -Moved 1FTE from IT to Water (GIS Technician) -Moved 1FTE from Legislative to Water (Digital Scanner/Record Asst II)

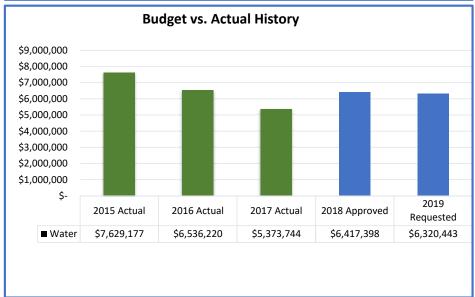
CAPITAL IMPROVEMENT PL	CAPITAL IMPROVEMENT PLAN (CIP)								
Project ID:	Project Description:	Comments							
New projects:									
N/A									
Ongoing projects									

Ongoing projects		
W1701	Valve Inspection, Exercising and Rehabilitation	Project listed in 2019-2023 CIP
W1702	Source Water Protection	Project listed in 2019-2023 CIP
W1703	Laird Tract Well Field Restoration	Project listed in 2019-2023 CIP
W1601	Backup Generation at Water Facilities	Project listed in 2019-2023 CIP
W1602	Roseville Park Pressure District	Project listed in 2019-2023 CIP
W1503	Academy Street Interconnection Pump Station	Project listed in 2019-2023 CIP
W1402	Air Stripper Replacement - South Well Field	Project listed in 2019-2023 CIP
W1302	Abandon Old Wells	Project listed in 2019-2023 CIP
W1303	Water System Master Plan and Model	Projected to be completed by EOY 2018
W0503	Well Restoration Program	Project listed in 2019-2023 CIP
W0002	Curtis WTP Alt. Disinfection and Facilities Upgrades	Project listed in 2019-2023 CIP
W9302	Water SCADA System	Project listed in 2019-2023 CIP
W9308	Water Main Replacement Program	Project listed in 2019-2023 CIP
W8605	Water Tank Maintenance	Project listed in 2019-2023 CIP
WEQSF	Equipment Replacement Program	Project listed in 2019-2023 CIP

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - WATER DIVISION

Object Level	FY2018 Approved						FY2018 Approved vs. FY2019	% Incr (Decr) over FY2018
				F	Recomm'd	Approved		
Personnel Services	\$ 2,247,925	\$	2,495,281	\$	247,356	11.00%		
Materials and Supplies	\$ 370,500	\$	404,750	\$	34,250	9.24%		
Contractual Services	\$ 953,262	\$	949,059	\$	(4,203)	-0.44%		
Depreciation	\$ 119,700	\$	74,753	\$	(44,947)	-37.55%		
Debt Service - Lease Payments	\$ 1,735,918	\$	1,748,082	\$	12,164	0.70%		
Other Expenditures	\$ 54,352	\$	54,834	\$	482	0.89%		
Subtotal:	\$ 5,481,657	\$	5,726,759	\$	245,102	4.47%		
Inter-Dept Charges	\$ 935,741	\$	593,684	\$	(342,057)	-36.55%		
Total:	\$ 6,417,398	\$	6,320,443	\$	(96,955)	-1.51%		

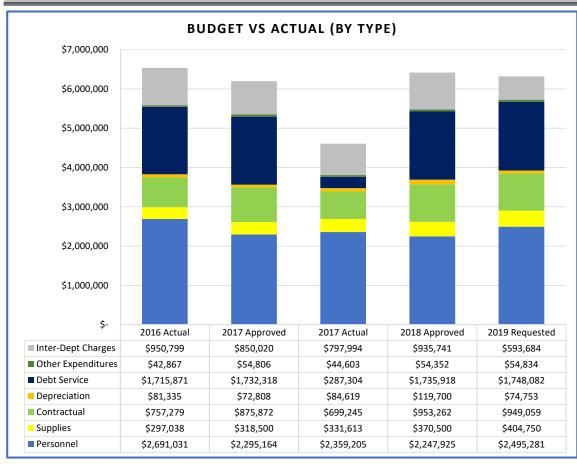




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - WATER DIVISION

Object Level (\$)	2016	2017	2017	2018	2019
Object Level (5)	Actual	Approved	Actual	Approved	Requested
Personnel Services	\$ 2,691,031	\$ 2,295,164	\$ 2,359,205	\$ 2,247,925	\$ 2,495,281
Materials and Supplies	\$ 297,038	\$ 318,500	\$ 331,613	\$ 370,500	\$ 404,750
Contractual Services	\$ 757,279	\$ 875,872	\$ 699,245	\$ 953,262	\$ 949,059
Depreciation	\$ 81,335	\$ 72,808	\$ 84,619	\$ 119,700	\$ 74,753
Debt Service - Lease Payments	\$ 1,715,871	\$ 1,732,318	\$ 287,304	\$ 1,735,918	\$ 1,748,082
Other Expenditures	\$ 42,867	\$ 54,806	\$ 44,603	\$ 54,352	\$ 54,834
Sub-Total:	\$ 5,585,421	\$ 5,349,468	\$ 3,806,589	\$ 5,481,657	\$ 5,726,759
Inter-Dept Charges	\$ 950,799	\$ 850,020	\$ 797,994	\$ 935,741	\$ 593,684
Total:	\$ 6,536,220	\$ 6,199,488	\$ 4,604,583	\$ 6,417,398	\$ 6,320,443

Object Level (9/)	2016	2017	2017	2018	2019
Object Level (%)	Actual	Approved	Actual	Approved	Requested
Personnel Services	41.2%	37.0%	51.2%	35.0%	39.5%
Materials and Supplies	4.5%	5.1%	7.2%	5.8%	6.4%
Contractual Services	11.6%	14.1%	15.2%	14.9%	15.0%
Depreciation	1.2%	1.2%	1.8%	1.9%	1.2%
Debt Service - Lease Payments	26.3%	27.9%	6.2%	27.1%	27.7%
Other Expenditures	0.7%	0.9%	1.0%	0.8%	0.9%
Inter-Dept Charges	14.5%	13.7%	17.3%	14.6%	9.4%
Total:	100.0%	100.0%	100.0%	100.0%	100.0%



PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - WATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$2,495,281	\$247,356	11.0%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for AFSCME employees. Merit increases where applicable for CWA and Management employees.

Personnel Services (Org: 5295202)

Obje	ct Line	2018	2019	\$ Difference	% Difference
6020	Supervisory	\$ 369,889	\$ 388,498	\$ 18,609	5.0%
6050	Information Technology	\$ -	\$ 55,040	\$ 55,040	#DIV/0!
6080	Clerical	\$ 85,164	\$ 89,472	\$ 4,308	5.1%
6200	Line Maintenance	\$ 373,045	\$ 429,968	\$ 56,923	15.3%
6210	Inspectors	\$ 58,013	\$ 60,947	\$ 2,934	5.1%
6220	Plant Operators	\$ 290,166	\$ 299,293	\$ 9,127	3.1%
6230	Maintenance Workers	\$ 64,355	\$ 66,025	\$ 1,670	2.6%
6580	Service Award	\$ 20,791	\$ 24,159	\$ 3,368	16.2%
6590	Sick Pay	\$ 7,930	\$ 13,845	\$ 5,915	74.6%
6610	Seasonal	\$ 14,400	\$ 14,400	\$ -	0.0%
6615	Interns	\$ 6,500	\$ 6,500	\$ -	0.0%
6620	Overtime	\$ 165,000	\$ 168,300	\$ 3,300	2.0%
6621	Shift Differential	\$ 6,000	\$ 3,120	\$ (2,880)	-48.0%
6622	Holiday Premium	\$ 16,400	\$ 16,728	\$ 328	2.0%
6623	Weekend Premium	\$ 2,150	\$ 2,193	\$ 43	2.0%
6880	Uniform Allowances	\$ 7,740	\$ 7,920	\$ 180	2.3%
6885	Device Reimbursements	\$ -	\$ 4,800	\$ 4,800	#DIV/0!
6920	Unemployment Comp. Ins.	\$ 5,985	\$ 5,544	\$ (441)	-7.4%
6930	Social Security Taxes	\$ 109,165	\$ 118,946	\$ 9,781	9.0%
6940	City Pension Plan	\$ 243,880	\$ 282,340	\$ 38,460	15.8%
6941	Defined Contribution 401(a) Plan	\$ 24,914	\$ 33,057	\$ 8,143	32.7%
6950	Term Life Insurance	\$ 5,494	\$ 6,090	\$ 596	10.8%
6960	Group Hospitalization Ins.	\$ 277,241	\$ 301,074	\$ 23,833	8.6%
6961	Long-Term Disability Ins.	\$ 2,603	\$ 2,413	\$ (190)	-7.3%
6962	Dental Insurance	\$ 16,738	\$ 16,497	\$ (241)	-1.4%
6963	Flexible Spending Account	\$ 234	\$ 189	\$ (45)	-19.2%
6964	Health Savings Account	\$ 1,500	\$ 1,500	\$ -	0.0%
6965	Post-Employment Benefits	\$ 62,182	\$ 62,760	\$ 578	0.9%
6966	Retirement Health Savings Account	\$ 6,900	\$ 9,800	\$ 2,900	42.0%
6967	Emergency Room Reimbursements	\$ 2,610	\$ 2,900	\$ 290	11.1%
6968	Vision Insurance Premiums	\$ 936	\$ 963	\$ 27	2.9%
Perso	nnel Services Total	\$ 2,247,925	\$ 2,495,281	\$ 247,356	11.0%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 WATER DIVISION

Title	Union	Grade	2018 # of		2018	2019 # of		2019	Position		\$	%
Title	Affiliation	Grade	Positions		Approved	Positions		Requested	Difference		Difference	Change
FULL TIME DOCUTIONS												
FULL TIME POSITIONS Director of PWWR	MGMT	22	1.0	۲.	117 200	1.0	۲.	125.050	0.0	۲.	7 751	C C0/
	MGMT	33	1.0	\$	117,299	1.0	\$	125,050	0.0	\$	7,751	6.6%
Deputy Director of PWWR		29	1.0	\$	95,927	1.0	\$	99,395	0.0	\$	3,468	3.6%
Water Operations Superintendent	MGMT	22	1.0	\$	82,413	1.0	\$	86,346	0.0	\$	3,933	4.8%
PWWR Supervisor	MGMT	19	1.0	\$	74,250	1.0	\$	77,707	0.0	\$	3,457	4.7%
Water and Sewer Inspector	CWA F/T	16	1.0	\$	58,013	1.0	\$	60,947	0.0	\$	2,934	5.1%
Senior Water Plant OP	AFSCME F/T	16	1.0	\$	80,530	1.0	\$	82,764	0.0	\$	2,234	2.8%
GIS Technician **	CWA F/T	14		\$	-	1.0	\$	55,040	1.0	\$	55,040	#DIV/0!
Water Plant Operator	AFSCME F/T	14	3.0	\$	209,636	3.0	\$	216,529	0.0	\$	6,893	3.3%
Water Meter Technician	AFSCME F/T	10	1.0	\$	65,180	1.0	\$	66,726	0.0	\$	1,546	2.4%
Heavy Equipment Op/Mech	AFSCME F/T	10	1.0	\$	64,355	1.0	\$	66,025	0.0	\$	1,670	2.6%
Admin Professional I	CWA F/T	10		\$	-	1.0	\$	58,735	1.0	\$	58,735	#DIV/0!
Secretary I	CWA F/T	10	1.0	\$	55,929		\$	-	(1.0)	\$	(55,929)	-100.0%
Digital Scanner/Record Asst II	CWA F/T	8		\$	-	1.0	\$	54,455	1.0	\$	54,455	#DIV/0!
Maintenance IV	AFSCME F/T	8	1.0	\$	59,753	1.0	\$	61,210	0.0	\$	1,457	2.4%
Maintenance III	AFSCME F/T	6	1.0	\$	45,032	1.0	\$	54,718	0.0	\$	9,686	21.5%
Equipment Operator *	AFSCME F/T	3	5.0	\$	203,080	3.0	\$	105,655	(2.0)	\$	(97,425)	-48.0%
Maintenance I	AFSCME F/T	1		\$	-	2.0	\$	87,204	2.0	\$	87,204	#DIV/0!
Total Full-Time Positions			19.0	\$	1,211,397	21.0	\$	1,358,506	2.0	\$	147,109	12.1%
PART-TIME FUNDING												
Clerk Typist	CWA P/T			\$	29,235		\$	30,737		\$	1,502	5.1%
Seasonal	,			\$	14,400		\$	14,400		\$	-	0.0%
Intern				\$	6,500		\$	6,500		\$	-	0.0%
Total Part-Time Funding				\$	50,135		\$	51,637		\$	1,502	3.0%
OTHER												
OTHER Ciel Per				_	7.020			12.045		,	F 04F	74.60/
Sick Pay				\$	7,930		\$	13,845		\$	5,915	74.6%
Service Award				\$	20,791		\$	24,159		\$	3,368	16.2%
Overtime				\$	165,000		\$	168,300		\$	3,300	2.0%
Shift Differential				\$	6,000		\$	3,120		\$	(2,880)	-48.0%
Holiday Premium				\$	16,400		\$	16,728		\$	328	2.0%
Weekend Premium				\$	2,150		\$	2,193		\$	43	2.0%
Uniform Allowance				\$	7,740		\$	7,920		\$	180	2.3%
Device Reimbursements				\$	-		\$	4,800		\$	4,800	#DIV/0!
Total Other				\$	226,011		\$	241,065		\$	15,054	6.7%
Total All			19.0	Ċ	1,487,543	21.0	¢	1,651,208	2.0	Ś	163,665	11%
TOTAL ALL			19.0				Ş	1,051,208	2.0	Ş	103,005	11%

 $^{^{*}}$ 2018 and 2019 total funding for Equipment Operator postions includes 1 FTE that is currently unfunded.

 $[\]hbox{**In 2019, GIS Technician was realigned from the Information Technology Division to the Water Division.}$

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - WATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Materials/Supplies:	\$404,750	\$34,250	9.2%
Upkeep and operation of our wat quotes received in 2017.	er treatment plants and distribution sys	tem. Treatment chemicals have in	creased based on

Materials/Supplies (Org: 5295203)

	, early				
Obje	ct Line	2018	2019	\$ Difference	% Difference
7080	Pumping Station Electric	\$ 40,000	\$ 40,000	\$ -	0.0%
7090	Treatment Plant Chemicals	\$ 123,500	\$ 153,500	\$ 30,000	24.3%
7110	Safety Shoes and Supplies	\$ 5,750	\$ 6,000	\$ 250	4.3%
7130	Tools, Field Sup., & Small Eq.	\$ 10,000	\$ 10,000	\$ -	0.0%
7150	Office Supplies	\$ 3,250	\$ 3,250	\$ -	0.0%
7260	Line Maintenance	\$ 110,000	\$ 110,000	\$ -	0.0%
7270	Station and Well Maintenance	\$ 3,500	\$ 3,500	\$ -	0.0%
7275	Reservoir Maintenance	\$ 7,500	\$ 7,500	\$ -	0.0%
7280	Treatment Plant Maintenance	\$ 35,000	\$ 35,000	\$ -	0.0%
7330	Water Meters	\$ 30,000	\$ 35,000	\$ 5,000	16.7%
7440	Conservation Program	\$ 2,000	\$ 1,000	\$ (1,000)	-50.0%
Mate	rials/Supplies Total	\$ 370,500	\$ 404,750	\$ 34,250	9.2%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
7080	Pumping Station Electric	\$ 40,000	Cost of Electricity at various pump stations
7090	Treatment Plant Chemicals	\$ 153,500	Cost of chemicals to treat water before distribution
7110	Safety Shoes and Supplies	\$ 6,000	Safety shoes, vests, hart hats
7130	Tools, Field Sup., & Small Eq.	\$ 10,000	Water main locating tools, field tools
7150	Office Supplies	\$ 3,250	Pens, paper, postage
7260	Line Maintenance	\$ 110,000	Valves, pipe, concrete, etc. for line repairs and maintenance
7270	Station and Well Maintenance	\$ 3,500	Materials bought by crews for general maintenance
7275	Reservoir Maintenance	\$ 7,500	Materials bought by crews for general maintenance
7280	Treatment Plant Maintenance	\$ 35,000	General maintenance of plant piping and structures
7330	Water Meters	\$ 35,000	In place meter testing and third party testing
7440	Conservation Program	\$ 1,000	Water conservation related printing and outreach
Total		\$ 404,750	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - WATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Contractual Services:	\$949,059	-\$4,203	-0.4%

Contractual services necessary for repair and maintenacne of our sytem which may be beyond staff ability to complete. Lab testing of water samples is required for regulatory compliance. Some road repair can be completed in house, but larger repairs on state roads are completed by a contractor.

Contractual Services (Org: 5295204)

Obje	t Line	2018	2019	\$ Difference	% Difference
8020	Advertising	\$ 3,500	\$ 3,500	\$ -	0.0%
8030	Casualty Insurance	\$ 28,321	\$ 28,320	\$ (1)	0.0%
8031	Insurance - Property	\$ 83,139	\$ 83,140	\$ 1	0.0%
8032	Insurance - Auto	\$ 27,163	\$ 27,165	\$ 2	0.0%
8033	Insurance - Broker	\$ 12,879	\$ 12,880	\$ 1	0.0%
8040	Merchant Fees and Discounts	\$ 100,000	\$ 100,000	\$ -	0.0%
8050	Phone/Communications	\$ 10,000	\$ 5,200	\$ (4,800)	-48.0%
8120	Outside Engineering	\$ 125,000	\$ 115,000	\$ (10,000)	-8.0%
8130	Building & Equipment Rental	\$ 3,500	\$ 3,500	\$ -	0.0%
8131	Information Technology Cont'l	\$ 66,036	\$ 81,114	\$ 15,078	22.8%
8150	Water Service Contracts	\$ 76,000	\$ 76,000	\$ -	0.0%
8260	Line Maintenance	\$ 65,000	\$ 65,000	\$ -	0.0%
8270	Station Maintenance	\$ 7,500	\$ 7,500	\$ -	0.0%
8275	Reservoir Maintenance	\$ 30,000	\$ 30,000	\$ -	0.0%
8280	Treatment Plant Maintenance	\$ 65,000	\$ 65,000	\$ -	0.0%
8312	Fleet & Facilities Services	\$ 176,724	\$ 179,740	\$ 3,016	1.7%
8320	Well Maintenance	\$ 20,000	\$ 20,000	\$ -	0.0%
8325	Tank Cleaning and Inspection	\$ 10,000	\$ 10,000	\$ -	0.0%
8330	Meter Testing and Repairs	\$ 5,000	\$ 5,000	\$ -	0.0%
8440	Conservation Program	\$ 3,000	\$ 1,000	\$ (2,000)	-66.7%
8550	Misc. Contracted Services	\$ 10,000	\$ 10,000	\$ -	0.0%
8899	Mowing Contract	\$ 25,500	\$ 20,000	\$ (5,500)	-21.6%
Contr	actual Services Total	\$ 953,262	\$ 949,059	\$ (4,203)	-0.4%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES DETAIL - WATER DIVISION

	Object Code - Description	Amount Requested	Use of Funds (Description)
8020	Advertising	\$ 3,500	Advertising for bid opportunities and annual water quality report
8030	Casualty Insurance	\$ 28,320	Allocation provided by Finance
8031	Insurance - Property	\$ 83,140	Allocation provided by Finance
8032	Insurance - Auto	\$ 27,165	Allocation provided by Finance
8033	Insurance - Broker	\$ 12,880	Allocation provided by Finance
8040	Merchant Fees and Discounts	\$ 100,000	Credit card fees
8050	Phone/Communications	\$ 5,200	Mobile phones and air cards for mobile workforce applications and GIS mapping
8120	Outside Engineering	\$ 115,000	Annual support of the Water Resources Agency, water quality testing for state compliance, on-call contractual engineering support, annual USGS stream gauge maintenance
8130	Building & Equipment Rental	\$ 3,500	Easement rent, specialty equipment rental expenses
8131	Information Technology Cont'l	\$ 81,114	Department's share of IT costs, please see Appendix A
8150	Water Service Contracts	\$ 76,000	Smart Meter measurement and verification, water plant monitoring equipment testing and calibration, altitude valve maintenance, SCADA service charges
8260	Line Maintenance	\$ 65,000	Contractual road patch repair, water system repairs outside the scope of our internal crew capabilities or schedule
8270	Station Maintenance	\$ 7,500	Maintenance and repairs of water pump stations
8275	Reservoir Maintenance	\$ 30,000	Maintenance and repairs of reservoir and equipment
8280	Treatment Plant Maintenance	\$ 65,000	Maintenance and repairs of water treatment plants
8312	Fleet & Facilities Services	\$ 179,740	Internal service charges for Fleet and Facilities Maintenance
8320	Well Maintenance	\$ 20,000	Maintenance and repairs of production wells
8325	Tank Cleaning and Inspection	\$ 10,000	Routine cleaning and inspection of water storage tanks
8330	Meter Testing and Repairs	\$ 5,000	3rd party meter testing expenses
8440	Conservation Program	\$ 1,000	Educational efforts and giveaways for water conservation
8550	Misc. Contracted Services	\$ 10,000	Items that don't fall into a standard category
8899	Mowing Contract	\$	Mowing and bed maintenance of water facilities, including reservoir slopes
Total		\$ 949,059	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - WATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change					
Depreciation Expense:	\$74,753	-\$44,947	-37.5%					
Depreciation expense is calculated annually by the Department of Figure and is based upon the equipment utilized by each								

Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each department. This amount will fluctuate depending on asset additions and retirements, cost of assets and useful life of the assets.

Other Charges (Org: 5295205) - *Depreciation Expense Only

Object Line	2018	2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 119,700	\$ 74,753	\$ (44,947)	-37.5%
Other Charges Total *	\$ 119,700	\$ 74,753	\$ (44,947)	-37.5%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEBT SERVICE - WATER DIVISION

Object Level	FY2019	\$ Change over	9/ Change				
Object Level	Recommended	FY2018	% Change				
Debt Service:	\$1,748,082	\$1,748,082 \$12,164					
Debt service related to the co	ost of money borrowed to finance the Rese	rvoir and the Smart Meter Project.					

Other Charges (Org: 5295205) - *Debt Service Only

Objec	t Line	2018	2019	\$ Difference	% Difference
9051	Debt Service Principal	\$ 1,095,000	\$ 1,140,000	\$ 45,000	4.1%
9052	Debt Service Interest	\$ 177,750	\$ 144,900	\$ (32,850)	-18.5%
9056	Debt Service Principal-Smart Meters	\$ 334,940	\$ 349,851	\$ 14,911	4.5%
9057	Debt Service Interest-Smart Meters	\$ 90,587	\$ 75,690	\$ (14,897)	-16.4%
9058	Debt Service Principal-ECM	\$ 34,510	\$ 35,202	\$ 692	2.0%
9059	Debt Service Interest-ECM	\$ 3,131	\$ 2,439	\$ (692)	-22.1%
Other	Charges Total *	\$ 1,735,918	\$ 1,748,082	\$ 12,164	0.7%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - WATER DIVISION

Object Level	FY2019	\$ Change over	% Change
	Recommended	FY2018	% Change
Other Charges:	\$54,834	\$482	0.9%
Training helps keep our staff u			
	. , .		

Other Charges (Org: 5295205) - *Excluding Depreciation Expense and Debt Service (Principal/Interest)

 		•	 	
Object Line	2018	2019	\$ Difference	% Difference
9010 Bad Debt Expense	\$ 1,309	\$ 1,791	\$ 482	36.8%
9054 Amortization of Refinance Loss	\$ 34,443	\$ 34,443	\$ -	0.0%
9070 Training	\$ 8,600	\$ 8,600	\$ -	0.0%
9099 Contingencies	\$ 10,000	\$ 10,000	\$ -	0.0%
Other Charges Total *	\$ 54,352	\$ 54,834	\$ 482	0.9%

OTHER CHARGES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
9010	Bad Debt Expense	\$ 1,791	
9054	Amortization of Refinance Loss	\$ 34,443	
9070	Training	\$ 8,600	License upkeep, industry trend participation, conferences
9099	Contingencies	\$ 10,000	
Total		\$ 54,834	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - WATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$593,684	-\$342,057	-36.6%

Administrative Overhead: Allocations of personnel expense from Finance, Planning, Administration, and Legislative for time spent on utility related issues.

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Printing and Reproduction: The costs of supplies for copiers is allocated based on previously observed percentage of use by each department.

Warehousing: Operating costs of the warehouse function allocated to those divisions that store inventory items.

Inter-Dept. Charges

Object Line	2018	2019	\$ Difference	% Difference
Administrative Overhead	\$ 615,671	\$ 369,704	\$ (245,967)	-40.0%
Billings and Accounting	\$ 122,969	\$ 81,579	\$ (41,390)	-33.7%
Electricity	\$ 215,445	\$ 193,282	\$ (22,163)	-10.3%
Information Technology	\$ 142,450	\$ 79,085	\$ (63,365)	-44.5%
Other Indirect Charges	\$ (177,468)	\$ (147,214)	\$ 30,254	-17.0%
Printing and Reproduction	\$ 146	\$ 146	\$ -	0.0%
Warehousing	\$ 16,528	\$ 17,102	\$ 574	3.5%
Inter-Dept. Charges Total	\$ 935,741	\$ 593,684	\$ (342,057)	-36.6%

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SEWER DIVISION

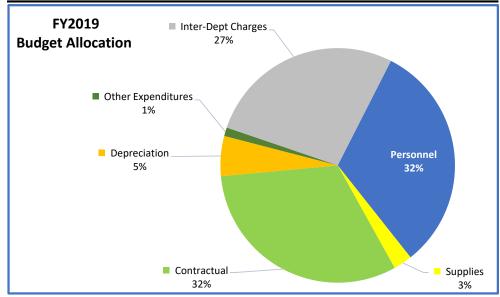
CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - SEWER DIVISION EXECUTIVE SUMMARY

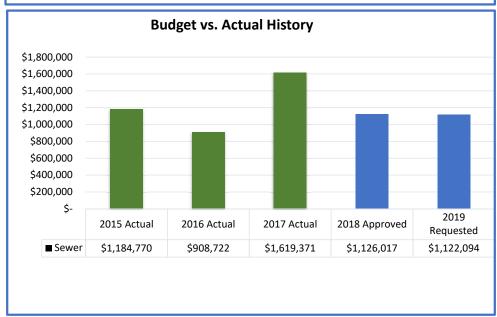
	FY2018	FY2019	FY2018 App'd	% +/- over	
Object Level Detail:	Appr'd	Rec'd	vs. FY2019 Rec'd	FY2018 Appr'd	Comments
Full-time Wages	\$195,038	\$216,353	\$21,315	10.93%	No change in total full-time positions from FY2018
Part-time Wages	\$6,500	\$6,500	\$0	0.00%	
Other Wages	\$19,999	\$21,225	\$1,226	6.13%	
Benefits	\$99,750	\$113,202	\$13,452	13.49%	
Personnel Services	\$321,287	\$357,280	\$35,993	11.20%	*Sum of above listed wages and benefits
Materials and Supplies	\$26,700	\$29,000	\$2,300	8.61%	
Contractual Services	\$334,857	\$354,549	\$19,692	5.88%	
Depreciation	\$36,400	\$61,925	\$25,525	70.12%	*Finance Calculation
Other Expenditures	\$13,392	\$13,392	\$0	0.00%	
Sub-Total:	\$732,636	\$816,146	\$83,510	11.40%	
Inter-Dept. Charges	\$393,381	\$305,948	(\$87,433)	-22.23%	Reflects the cost share of City overhead which includes: Administration Overhead, Billing and Accounting, Electricity Used, Information Technology Other Indirect Charges and Warehousing.
Total Operating Expenses:	\$1,126,017	\$1,122,094	(\$3,923)	-0.35%	
			0		No change in total full-time positions from FY2018

AL IMPROVEMENT PLAN (CIP)								
Project ID:	Project Description:	Comments						
New projects:								
N1901	City Hall - HVAC System Upgrades	New Project						
Ongoing projects								
S1602	Sewer SCADA System	Projected to be completed by EOY 2018						
S0904	Sanitary Sewer Study and Repairs	Project listed in 2019-2023 CIP						
SEQSF	Equipment Replacement Program	Project listed in 2019-2023 CIP						

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - SEWER DIVISION

Object Level	FY2018 Approved	ı	FY2019 Recommended	FY2018 Approved vs. FY2019 Recomm'd	% Incr (Decr) over FY2018 Approved
Personnel Services	\$ 321,287	\$	357,280	\$ 35,993	11.20%
Materials and Supplies	\$ 26,700	\$	29,000	\$ 2,300	8.61%
Contractual Services	\$ 334,857	\$	354,549	\$ 19,692	5.88%
Depreciation	\$ 36,400	\$	61,925	\$ 25,525	70.12%
Other Expenditures	\$ 13,392	\$	13,392	\$ -	0.00%
Subtotal:	\$ 732,636	\$	816,146	\$ 83,510	11.40%
Inter-Dept Charges	\$ 393,381	\$	305,948	\$ (87,433)	-22.23%
Total:	\$ 1,126,017	\$	1,122,094	\$ (3,923)	-0.35%

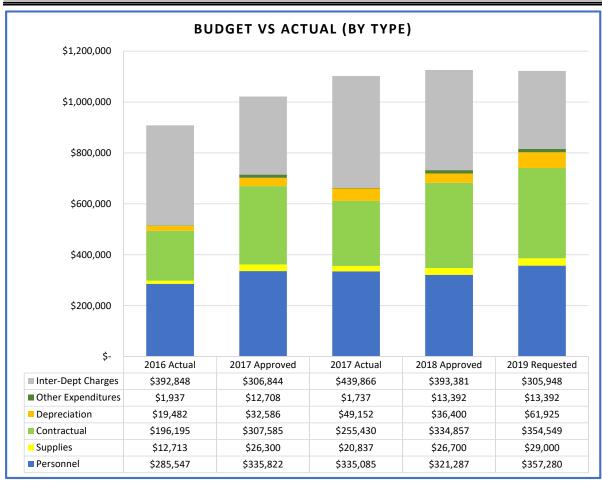




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - SEWER DIVISION

Object Level (\$)		2016	2017	2017	2018	2019
Object Level (5)		Actual	Approved	Actual	Approved	Requested
Personnel Services	\$	285,547	\$ 335,822	\$ 335,085	\$ 321,287	\$ 357,280
Materials and Supplies	\$	12,713	\$ 26,300	\$ 20,837	\$ 26,700	\$ 29,000
Contractual Services	\$	196,195	\$ 307,585	\$ 255,430	\$ 334,857	\$ 354,549
Depreciation	\$	19,482	\$ 32,586	\$ 49,152	\$ 36,400	\$ 61,925
Other Expenditures	\$	1,937	\$ 12,708	\$ 1,737	\$ 13,392	\$ 13,392
Subtotal:	\$	515,874	\$ 715,001	\$ 662,241	\$ 732,636	\$ 816,146
Inter-Dept Charges	\$	392,848	\$ 306,844	\$ 439,866	\$ 393,381	\$ 305,948
Total:	\$	908,722	\$ 1,021,845	\$ 1,102,107	\$ 1,126,017	\$ 1,122,094

Object Level (%)	2016	2017	2017	2018	2019
Object Level (70)	Actual	Approved	Actual	Approved	Requested
Personnel Services	31.4%	32.9%	30.4%	28.5%	31.8%
Materials and Supplies	1.4%	2.6%	1.9%	2.4%	2.6%
Contractual Services	21.6%	30.1%	23.2%	29.7%	31.6%
Depreciation	2.1%	3.2%	4.5%	3.2%	5.5%
Other Expenditures	0.2%	1.2%	0.2%	1.2%	1.2%
Inter-Dept Charges	43.2%	30.0%	39.9%	34.9%	27.3%
Total:	100.0%	100.0%	100.0%	100.0%	100.0%



PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - <u>SEWER DIVISION</u>

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$357,280	\$35,993	11.2%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for CWA employees.

Personnel Services (Org: 5395302)

Obje	ct Line	2018	2019	\$ Difference	% Difference
6200	Line Maintenance	\$ 195,038	\$ 216,353	\$ 21,315	10.9%
6580	Service Award	\$ 1,413	\$ 1,579	\$ 166	11.7%
6590	Sick Pay	\$ 1,186	\$ 1,046	\$ (140)	-11.8%
6615	Interns	\$ 6,500	\$ 6,500	\$ -	0.0%
6620	Overtime	\$ 15,000	\$ 15,300	\$ 300	2.0%
6880	Uniform Allowances	\$ 2,400	\$ 2,400	\$ -	0.0%
6885	Device Reimbursements	\$ -	\$ 900	\$ 900	#DIV/0!
6920	Unemployment Comp. Ins.	\$ 1,260	\$ 1,099	\$ (161)	-12.8%
6930	Social Security Taxes	\$ 16,491	\$ 18,959	\$ 2,468	15.0%
6940	City Pension Plan	\$ 15,926	\$ 18,620	\$ 2,694	16.9%
6941	Defined Contribution 401(a) Plan	\$ 10,302	\$ 11,694	\$ 1,392	13.5%
6950	Term Life Insurance	\$ 947	\$ 1,099	\$ 152	16.1%
6960	Group Hospitalization Ins.	\$ 43,221	\$ 48,641	\$ 5,420	12.5%
6961	Long-Term Disability Ins.	\$ 425	\$ 414	\$ (11)	-2.6%
6962	Dental Insurance	\$ 2,470	\$ 2,577	\$ 107	4.3%
6963	Admin Fee-Flex Spending	\$ -	\$ 11	\$ 11	#DIV/0!
6964	HSA City Contributions	\$ -	\$ 750	\$ 750	#DIV/0!
6965	Post-Employment Benefits	\$ 3,835	\$ 4,140	\$ 305	8.0%
6966	Retirement Health Savings Account	\$ 4,140	\$ 4,430	\$ 290	7.0%
6967	Emergency Room Reimbursements	\$ 580	\$ 604	\$ 24	4.1%
6968	Vision Insurance Premiums	\$ 153	\$ 164	\$ 11	7.2%
Perso	nnel Services Total	\$ 321,287	\$ 357,280	\$ 35,993	11.2%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 SEWER DIVISION

Tial -	Union		2018 # of		2018	2019 # of		2019	Position	\$		%	
Title	Affiliation	Grade	Positions		Approved	Positions		Requested	Difference	D	ifference	Change	
FULL TIME POSITIONS													
	A FCCN 4F F /T	0	2.0	<u>,</u>	100.073	2.0	,	445 677	0.0	<u>,</u>	C 705	C 20/	
Maintenance IV	AFSCME F/T	8	2.0	\$	108,972	2.0	\$	115,677	0.0	\$	6,705	6.2%	
Maintenance I	AFSCME F/T	1	1.0	\$	41,929		\$	-	(1.0)	\$	(41,929)	-100.0%	
Equipment Operator	AFSCME F/T	3	1.0	\$	44,137	2.0	\$	100,676	1.0	\$	56,539	128.1%	
Total Full-Time Positions			4.0	\$	195,038	4.0	\$	216,353	0.0	\$	21,315	10.9%	
PART-TIME FUNDING													
Intern				\$	6,500		\$	6,500		\$	-	0.0%	
Total Part-Time Funding				\$	6,500		\$	6,500		\$	-	0.0%	
OTHER													
Service Award				\$	1,413		\$	1,579		\$	166	11.7%	
Sick Pay				\$	1,186		\$	1,046		\$	(140)	-11.8%	
Overtime				\$	15,000		\$	15,300		\$	300	2.0%	
Uniform Allowance				\$	2,400		\$	2,400		\$	-	0.0%	
Device Reimbursements				\$	-		\$	900		\$	900	#DIV/0!	
Total Other				\$	19,999		\$	21,225		\$	1,226	6.1%	
Total All			4.0	Ś	221,537	4.0	Ś	244,078	0.0	Ś	22,541	10%	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - <u>SEWER DIVISION</u>

Object Level	FY2019	\$ Change over	% Change
	Recommended	FY2018	70 Change
Materials/Supplies:	\$29,000	\$2,300	8.6%
Materials necessary for use by th	ne sewer division. For obvious reasons, t	they need their own tools.	

Materials/Supplies (Org: 5395303)

<u> </u>				
Object Line	2018	2019	\$ Difference	% Difference
7110 Safety Shoes and Supplies	\$ 1,200	\$ 1,500	\$ 300	25.0%
7130 Tools, Field Sup., & Small Eq.	\$ 8,000	\$ 10,000	\$ 2,000	25.0%
7260 Line Maintenance	\$ 16,000	\$ 16,000	\$ -	0.0%
7270 Station Maintenance	\$ 1,500	\$ 1,500	\$ -	0.0%
Materials/Supplies Total	\$ 26,700	\$ 29,000	\$ 2,300	8.6%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
7110	Safety Shoes and Supplies	\$ 1,500	Safety shoes, vests, gloves for jobsite safety
7130	Tools, Field Sup., & Small Eq.	\$ 10,000	Scoops, baskets, wrenches, etc.
7260	Line Maintenance	\$ 16,000	Pipe, couplings, mortar, concrete
7270	Station Maintenance	\$ 1,500	Paint, switches, floor cleaner
Total		\$ 29,000	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - SEWER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change					
Contractual Services:	\$354,549	\$19,692	5.9%					
Contractual items that are outside the normal scope of our crew capabilities. Line maintenache is typically utilized for								

Contractual items that are outside the normal scope of our crew capabilities. Line maintenacne is typically utilized for emergency repairs.

Contractual Services (Org: 5395304)

Obje	t Line	2018	2019	\$ Difference	% Difference
8030	Casualty Insurance	\$ 2,112	\$ 2,110	\$ (2)	-0.1%
8031	Insurance - Property	\$ 2,418	\$ 2,420	\$ 2	0.1%
8033	Insurance - Broker	\$ 420	\$ 420	\$ -	0.0%
8040	Merchant Fees and Discounts	\$ 75,000	\$ 75,000	\$ -	0.0%
8050	Phone/Communications	\$ 1,300	\$ 400	\$ (900)	-69.2%
8120	Outside Engineering	\$ 40,000	\$ 40,000	\$ -	0.0%
8131	Information Technology Cont'l	\$ 54,152	\$ 71,085	\$ 16,933	31.3%
8260	Line Maintenance	\$ 115,000	\$ 100,000	\$ (15,000)	-13.0%
8265	Easement Clearing	\$ 15,000	\$ 15,000	\$ -	0.0%
8270	Station Maintenance	\$ 15,000	\$ 15,000	\$ -	0.0%
8312	Fleet & Facilities Services	\$ 14,455	\$ 33,114		
Contr	actual Services Total	\$ 334,857	\$ 354,549	\$ 19,692	5.9%

CONTRACTUAL SERVICES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
8030	Casualty Insurance	\$ 2,110	Allocation provided by Finance
8031	Insurance - Property	\$ 2,420	Allocation provided by Finance
8033	Insurance - Broker	\$ 420	Allocation provided by Finance
8040	Merchant Fees and Discounts	\$ 75,000	Credit card fees
8050	Phone/Communications	\$ 400	Mobile phones and air cards for mobile workforce applications and GIS mapping
8120	Outside Engineering	\$ 40,000	Annual support of the Water Resources Agency, sewer testing,
8131	Information Technology Cont'l	\$ 71,085	Department's share of IT costs, please see Appendix A
8260	Line Maintenance	\$ 100,000	Contractual road patch repair, sewer system repairs outside the scope of our internal crew capabilities as well as emergency repairs
8265	Easement Clearing	\$ 15,000	Regular mowing and clearing of brush in sewer easements
8270	Station Maintenance	\$ 15,000	Routine maintenance and repairs of sewer pump stations
8312	Fleet & Facilities Services	\$ 33,114	Internal service charges for Fleet and Facilities Maintenance
Total		\$ 354,549	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - <u>SEWER DIVISION</u>

Chiest Level	FY2019	\$ Change over	9/ Change	
Object Level	Recommended	FY2018	% Change	
Depreciation Expense:	\$61,925	\$25,525	70.1%	
		1 1 1 1 1		

Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each department. This amount will fluctuate depending on asset additions and retirements, cost of assets and useful life of the assets.

Other Charges (Org: 5395305) - *Depreciation Expense Only

Object Line	2018	2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 36,400 \$	\$ 61,925	\$ 25,525	70.1%
Other Charges Total *	\$ 36,400	\$ 61,925	\$ 25,525	70.1%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - <u>SEWER DIVISION</u>

Object Level	FY2019	\$ Change over	% Change
	Recommended	FY2018	% Change
Other Charges:	\$13,392	\$0	0.0%
Training helps keep our staff u	up to date on current trends and safety topic	CS.	

Other Charges (Org: 5395305) - *Excluding Depreciation Expense

Object Line	2018	2019	S Difference	% Difference
9010 Bad Debt Expense	\$ 892	\$ 892	\$ -	0.0%
9070 Training	\$ 2,500	\$ 2,500	\$ _	0.0%
9099 Contingencies	\$ 10,000	\$ 10,000	\$ -	0.0%
Other Charges Total *	\$ 13,392	\$ 13,392	\$ -	0.0%

OTHER CHARGES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
9010	Bad Debt Expense	\$ 892	
9070	Training	\$ 2,500	Flushing training, equipment recommendations, licenses
9099	Contingencies	\$ 10,000	
Total		\$ 13,392	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - SEWER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$305,948	-\$87,433	-22.2%

Administrative Overhead: Allocations of personnel expense from Finance, Planning, Administration, and Legislative for time spent on utility related issues.

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Warehousing: Operating costs of the warehouse function allocated to those divisions that store inventory items.

Inter-Dept. Charges

Object Line	2018	2019	\$ Difference	% Difference
Administrative Overhead	\$ 161,182	\$ 132,597	\$ (28,585)	-17.7%
Billings and Accounting	\$ 88,462	\$ 59,998	\$ (28,464)	-32.2%
Electricity	\$ 11,945	\$ 10,483	\$ (1,462)	-12.2%
Information Technology	\$ 120,536	\$ 79,085	\$ (41,451)	-34.4%
Other Indirect Charges	\$ 9,730	\$ 22,259	\$ 12,529	128.8%
Warehousing	\$ 1,526	\$ 1,526	\$ -	0.0%
Inter-Dept. Charges Total	\$ 393,381	\$ 305,948	\$ (87,433)	-22.2%

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STORMWATER DIVISION

CITY OF NEWARK, DELAWARE STORMWATER DIVISION EXECUTIVE SUMMARY

EXPENDITURE BUDGET					
Object Level Detail:	FY2018 Appr'd	FY2019 Rec'd	FY2018 App'd vs. FY2019 Rec'd	% +/- over FY2018 Appr'd	Comments
Full-time Wages	\$295,987	\$315,652	\$19,665	6.64%	No change in total full-time positions from FY2018
Part-time Wages	\$30,867	\$37,708	\$6,841	22.16%	
Other Wages	\$20,547	\$26,451	\$5,904	28.73%	
Benefits	\$204,022	\$249,057	\$45,035	22.07%	
Personnel Services	\$551,423	\$628,868	\$77,445	14.04%	*Sum of above listed wages and benefits
Materials and Supplies	\$20,800	\$26,100	\$5,300	25.48%	
Contractual Services	\$217,634	\$233,450	\$15,816	7.27%	
Depreciation	\$7,500	\$17,835	\$10,335	137.80%	*Finance Calculation
Other Expenditures	\$2,500	\$54,200	\$51,700	2068.00%	
Sub-Total:	\$799,857	\$960,453	\$160,596	20.08%	
Inter-Dept. Charges	\$390,117	\$336,963	(\$53,154)	-13.63%	Reflects the cost share of City overhead which includes: Administration Overhead, Billing and Accounting, Electricity Used, Information Technology Other Indirect Charges and Printing and Reproduction
Total Operating Expenses:	\$1,189,974	\$1,297,416	\$107,442	9.03%	
Full-time Positions	5	5	0		No change in total full-time positions from FY2018

	APITAL IMPROVEMENT PLAN (CIP)						
I	Project ID:	Project Description:	Comments				

New projects: N/A

14//1

 Ongoing projects

 Q1802
 Rodney Regional Stormwater Park
 Project listed in 2019-2023 CIP

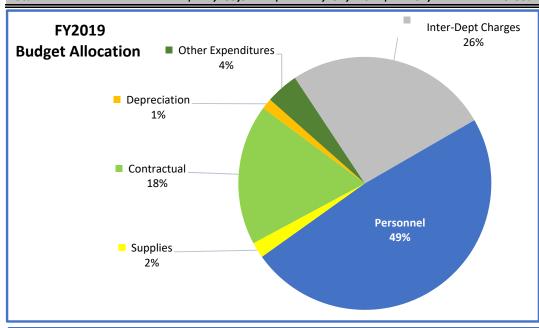
 Q1301
 Storm Drainage Improvements
 Project listed in 2019-2023 CIP

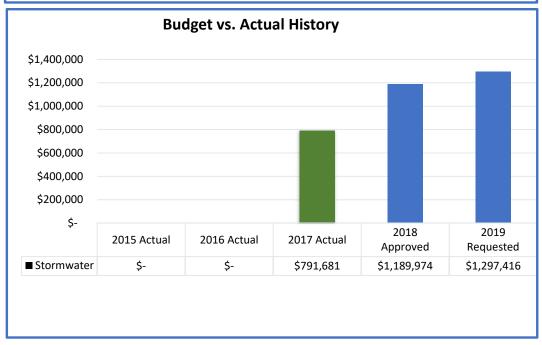
 Q0101
 NPDES (Phase II) Stormwater Quality Program
 Project listed in 2019-2023 CIP

 QEQSF
 Equipment Replacement Program
 Project listed in 2019-2023 CIP

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - STORMWATER DIVISION

Object Level		FY2018 Approved	FY2019 Recommended	FY2018 Approved vs. FY2019 Recomm'd	% Incr (Decr) over FY2018 Approved
Personnel Services	\$	551,423	\$ 628,868	\$ 77,445	14.04%
Materials and Supplies	\$	20,800	\$ 26,100	\$ 5,300	25.48%
Contractual Services	\$	217,634	\$ 233,450	\$ 15,816	7.27%
Depreciation	\$	7,500	\$ 17,835	\$ 10,335	137.80%
Other Expenditures	\$	2,500	\$ 54,200	\$ 51,700	2068.00%
Subtotal (Excluding Inter-Dept.	\$	799,857	\$ 960,453	\$ 160,596	20.08%
Inter-Dept Charges *	\$	390,117	\$ 336,963	\$ (53,154)	-13.63%
Total:		1,189,974	\$ 1,297,416	\$ 107,442	9.03%

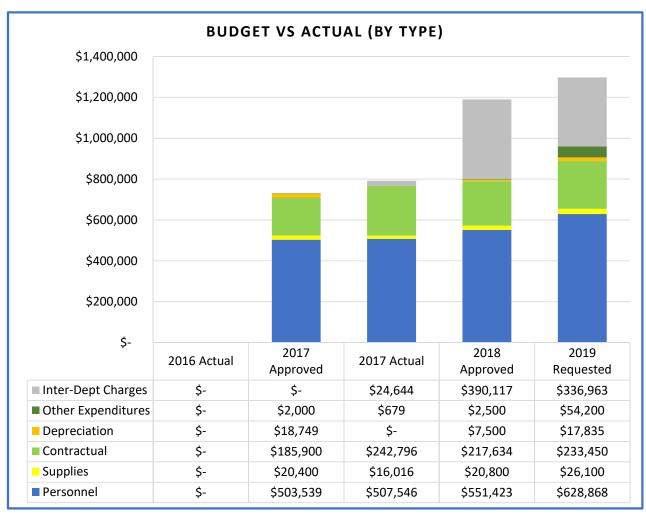




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - STORMWATER DIVISION

Object Level (¢)	2016	2017	2017	2018	2019
Object Level (\$)	Actual	Approved	Actual	Approved	Requested
Personnel Services	\$ -	\$ 503,539	\$ 507,546	\$ 551,423	\$ 628,868
Materials and Supplies	\$ -	\$ 20,400	\$ 16,016	\$ 20,800	\$ 26,100
Contractual Services	\$ -	\$ 185,900	\$ 242,796	\$ 217,634	\$ 233,450
Depreciation	\$ -	\$ 18,749	\$ -	\$ 7,500	\$ 17,835
Other Expenditures	\$ -	\$ 2,000	\$ 679	\$ 2,500	\$ 54,200
Subtotal (Operational Expenses):	\$ -	\$ 730,588	\$ 767,037	\$ 799,857	\$ 960,453
Inter-Dept Charges	\$ -	\$ -	\$ 24,644	\$ 390,117	\$ 336,963
Total:	\$ -	\$ 730,588	\$ 791,681	\$ 1,189,974	\$ 1,297,416

Object Level (%)	2016	2017	2017	2018	2019
Object Level (70)	Actual	Approved	Actual	Approved	Requested
Personnel Services	0.0%	68.9%	64.1%	46.3%	48.5%
Materials and Supplies	0.0%	2.8%	2.0%	1.7%	2.0%
Contractual Services	0.0%	25.4%	30.7%	18.3%	18.0%
Depreciation	0.0%	2.6%	0.0%	0.6%	1.4%
Other Expenditures	0.0%	0.3%	0.1%	0.2%	4.2%
Inter-Dept Charges	0.0%	0.0%	3.1%	32.8%	26.0%
Total:	0.0%	100.0%	100.0%	100.0%	100.0%



PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - STORMWATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$628,868	\$77,445	14.0%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for CWA employees.

Personnel Services (Org: 5295212)

Objec	ct Line	2018	2019	\$ Difference	% Difference
6030	Engineering/Technical	\$ 74,837	\$ 80,464	\$ 5,627	7.5%
6200	Line Maintenance	\$ 45,186	\$ 53,828	\$ 8,642	19.1%
6230	Maintenance Workers	\$ 206,831	\$ 212,568	\$ 5,737	2.8%
6580	Service Award	\$ 9,371	\$ 12,017	\$ 2,646	28.2%
6590	Sick Pay	\$ 1,425	\$ 1,994	\$ 569	39.9%
6615	Interns	\$ -	\$ 6,500	\$ 6,500	#DIV/0!
6620	Overtime	\$ 7,171	\$ 8,000	\$ 829	11.6%
6880	Uniform Allowance	\$ 2,580	\$ 2,640	\$ 60	2.3%
6885	Device Reimbursements	\$ -	\$ 1,800	\$ 1,800	#DIV/0!
6920	Unemployment Compensation Ins	\$ 1,890	\$ 1,630	\$ (260)	-13.8%
6930	Social Security Taxes	\$ 25,331	\$ 28,980	\$ 3,649	14.4%
6940	City Pension Plan	\$ 68,748	\$ 97,110	\$ 28,362	41.3%
6941	Defined Contrib 401A Plan	\$ 2,712	\$ 749	\$ (1,963)	-72.4%
6950	Term Life Insurance	\$ 1,432	\$ 1,547	\$ 115	8.0%
6960	Group Hospitalization Ins	\$ 80,159	\$ 90,903	\$ 10,744	13.4%
6961	Ltd Insurance	\$ 641	\$ 595	\$ (46)	-7.2%
6962	Dental Insurance	\$ 4,296	\$ 4,758	\$ 462	10.8%
6963	Admin Fee-Flex Spending	\$ -	\$ 10	\$ 10	#DIV/0!
6965	Post-Employment Benefits	\$ 16,555	\$ 21,590	\$ 5,035	30.4%
6966	Retirement HIth Sav Acct	\$ 1,380	\$ 239	\$ (1,141)	-82.7%
6967	Reimbursement-Emergency Room	\$ 725	\$ 750	\$ 25	3.4%
6968	Vision Insurance Premiums	\$ 153	\$ 196	\$ 43	28.1%
Perso	nnel Services Total	\$ 551,423	\$ 628,868	\$ 77,445	14.0%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 STORMWATER DIVISION

	Union		2018 # of	2018	2019 # of	2019	Position		\$	%
Title	Affiliation	Grade	Positions	Approved	Positions	Requested	Difference	D	ifference	Change
FULL TIME POSITIONS										
Environmental Program Coordinator	CWA F/T	18	1.0	\$ 74,837	1.0	\$ 80,464	0.0	\$	5,627	100.0%
Maintenance IV	AFSCME F/T	8	2.0	\$ 118,570	2.0	\$ 122,420	0.0	\$	3,850	3.2%
Street Sweeper Operator	AFSCME F/T	7	1.0	\$ 57,394	1.0	\$ 58,940	0.0	\$	1,546	2.7%
Equipment Operator	AFSCME F/T	1	1.0	\$ 45,186	1.0	\$ 53,828	0.0	\$	8,642	19.1%
Total Full-Time Positions			5.0	\$ 295,987	5.0	\$ 315,652	0.0	\$	19,665	6.6%
PART-TIME FUNDING										
Maintenance (PT) Street Sweeper	AFSCME LOCAL 1670 P/T			\$ 30,867		\$ 31,208		\$	341	1.1%
Intern				\$ -		\$ 6,500		\$	6,500	#DIV/0!
Total Part-Time Funding				\$ 30,867		\$ 37,708		\$	6,841	22.2%
OTHER										
Service Award				\$ 9,371		\$ 12,017		\$	2,646	28.2%
Sick Pay				\$ 1,425		\$ 1,994		\$	569	39.9%
Overtime				\$ 7,171		\$ 8,000		\$	829	100.0%
Uniform Allowance				\$ 2,580		\$ 2,640		\$	60	2.3%
Device Reimbursements				\$ -		\$ 1,800		\$	1,800	#DIV/0!
Total Other				\$ 20,547		\$ 26,451		\$	5,904	28.7%
Total All			5.0	\$ 347,401	5.0	\$ 379,811	0.0	\$	32,410	9%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - STORMWATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Materials/Supplies:	\$26,100	\$5,300	25.5%
Materials necessary for both fiel education.	basin, as well as office materials fo	r stormwater	

Materials/Supplies (Org: 5295213)

Object Line	2018	2019	\$ Difference	% Difference
7110 Safety Shoes and Supplies	\$ 1,500	\$ 1,800	\$ 300	20.0%
7130 Tools,Field Sup.,Small Equip.	\$ 1,300	\$ 1,300	\$ -	0.0%
7400 Storm Sewer Maintenance	\$ 10,000	\$ 15,000	\$ 5,000	50.0%
7401 Stormwater Program Supplies	\$ 8,000	\$ 8,000	\$ -	0.0%
Materials/Supplies Total	\$ 20,800	\$ 26,100	\$ 5,300	25.5%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
7110	Safety Shoes and Supplies	\$ 1,800	Safety shoes, vests, gloves for jobsite safety
7130	Tools,Field Sup.,Small Equip.	\$ 1,300	Measuring wheels, inspection supplies
7400	Storm Sewer Maintenance	\$ 15,000	Bricks, mortar, concrete
7401	Stormwater Program Supplies	\$ 8,000	Pamphlets, testing supplies
Total		\$ 26,100	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - STORMWATER DIVISION

Object Level	FY2019	\$ Change	% Change					
Object Level	Recommended	Recommended over FY2018						
Contractual Services:	\$233,450	\$15,816	7.3%					
NPDES permit assistance will be necessary in 2018 due to new permit requirements.								
· ·								

Contractual Services (Org: 5295214)

Object Line	2018	2019	\$ Difference	% Difference
8120 Outside Engineering	\$ 100,000	\$ 100,000	\$ -	0.0%
8130 Bldg & Equip Rental	\$ -	\$ 2,500	\$ 2,500	#DIV/0!
8131 IT Expense Contractual	\$ 16,402	\$ 19,683	\$ 3,281	20.0%
8312 Fleet & Facilities Services	\$ 65,332	\$ 75,267	\$ 9,935	15.2%
8401 Stormwater Program Contractual	\$ 35,900	\$ 36,000	\$ 100	0.3%
Contractual Services Total	\$ 217,634	\$ 233,450	\$ 15,816	7.3%

CONTRACTUAL SERVICES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
8120	Outside Engineering	\$ 100,000	Hire outside consultants to assist with NPDES Permit compliance expected to become effective end of 2017
8130	Bldg & Equip Rental	\$ 2,500	
8131	IT Expense Contractual	\$ 19,683	Department's share of IT costs, please see Appendix A
8312	Fleet & Facilities Services	\$ 75,267	Internal service charges for Fleet and Facilities Maintenance
8401	Stormwater Program Contractual	\$ 36,000	Covers specialty maintenance of BMP plantings, printing costs for educational materials and legal reviews of permit issues by outside counsel specializing in NPDES permits
Total		\$ 233,450	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - STORMWATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change					
Depreciation Expense:	\$17,835	\$10,335	137.8%					
Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each								

Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each department. This amount will fluctuate depending on asset additions and retirements, cost of assets and useful life of the assets.

Other Charges (Org: 5295215) - *Depreciation Expense Only

Object Line	2018	2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 7,500	\$ 17,835	\$ 10,335	137.8%
Other Charges Total *	\$ 7,500	\$ 17,835	\$ 10,335	137.8%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - STORMWATER DIVISION

Object Loyel	FY2019	\$ Change over	% Change
Object Level	Recommended	FY2018	% Change
Other Charges:	\$54,200	\$51,700	2068.0%
Training helps keep our staff u	up to date on current trends and safety topi	cs.	
	,,,		

Other Charges (Org: 5295215) - *Excluding Depreciation Expense

Object Line	2018	2019	\$ Difference	% Difference
9070 Training	\$ 2,500	\$ 3,200	\$ 700	28.0%
9084 Annual Regulatory Fees	\$ -	\$ 1,000	\$ 1,000	#DIV/0!
9095 Stormwater Grant Program	\$ -	\$ 50,000	\$ 50,000	#DIV/0!
Other Charges Total *	\$ 2,500	\$ 54,200	\$ 51,700	2068.0%

OTHER CHARGES DETAIL

	Object Code - Description	Amount	Use of Funds (Description)
	Object Code Description	Requested	ose of Funds (2 escription)
9070	Training	\$ 3,200	Licenses, GIS updates, continuing education
9084	Annual Regulatory Fees	\$ 1,000	
9095	Stormwater Grant Program	\$ 50,000	
Total		\$ 54,200	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - STORMWATER DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$336,963	-\$53,154	-13.6%

Administrative Overhead: Allocations of personnel expense from Finance, Planning, Administration, and Legislative for time spent on utility related issues.

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Printing and Reproduction: The costs of supplies for copiers is allocated based on previously observed percentage of use by each department.

Inter-Dept. Charges

Object Line	2018	2019	\$ Difference	% Difference
Administrative Overhead	\$ 150,601	\$ 253,404	\$ 102,803	68.3%
Billings and Accounting	\$ 77,299	\$ 58,858	\$ (18,441)	-23.9%
Electric Used - Transfer Station	\$ 745	\$ 683	\$ (62)	-8.3%
Information Technology	\$ 120,536	\$ -	\$ (120,536)	-100.0%
Other Indirect Charges	\$ 40,901	\$ 23,983	\$ (16,918)	-41.4%
Printing and Reproduction	\$ 35	\$ 35	\$ -	0.0%
Inter-Dept. Charges Total	\$ 390,117	\$ 336,963	\$ (53,154)	-13.6%

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FLEET MAINTENANCE DIVISION

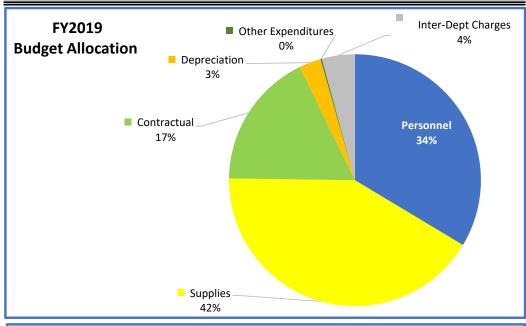
CITY OF NEWARK, DELAWARE FLEET MAINTENANCE DIVISION EXECUTIVE SUMMARY

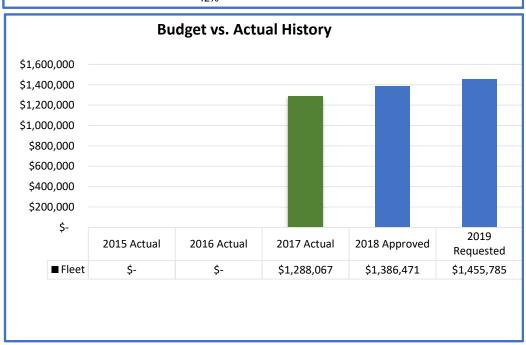
EXPENDITURE BUDGET					
Object Level Detail:	FY2018 Appr'd	FY2019 Rec'd	FY2018 App'd vs. FY2019 Rec'd	% +/- over FY2018 Appr'd	Comments
Full-time Wages	\$267,154	\$279,376	\$12,222	4.57%	No change in total full-time positions from FY2018
Part-time Wages	\$0	\$0	\$0	#DIV/0!	
Other Wages	\$45,962	\$47,425	\$1,463	3.18%	
Benefits	\$149,748	\$162,343	\$12,595	8.41%	
Personnel Services	\$462,864	\$489,144	\$26,280	5.68%	*Sum of above listed wages and benefits
Materials and Supplies	\$586,550	\$606,000	\$19,450	3.32%	
Contractual Services	\$242,565	\$255,619	\$13,054	5.38%	
Depreciation	\$38,400	\$40,791	\$2,391	6.23%	*Finance Calculation
Other Expenditures	\$2,200	\$2,700	\$500	22.73%	
Sub-Total:	\$1,332,579	\$1,394,254	\$61,675	4.63%	
Inter-Dept. Charges	\$53,892	\$61,531	\$7,639	14.17%	Reflects the cost share of City overhead which includes: Billing and Accounting, Electricity Used, Information Technology and Other Indirect Charges.
Total Operating Expenses:	\$1,386,471	\$1,455,785	\$69,314	5.00%	
Full-time Positions	4	4	0		No change in total full-time positions from FY2018

CAPITAL IMPROVEMENT PL	AN (CIP)	
Project ID:	Project Description:	Comments
New projects: MEQSF	Equipment Replacement Program	New Project
Ongoing projects M1401	Truck Lift Systems Improvements	Projected to be completed by EOY 2018

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION - FLEET MAINTENANCE DIVISION

Object Level	FY2018 Approved	FY2019 Recommended	FY2018 Approved vs. FY2019 Recomm'd	% Incr (Decr) over FY2018 Approved
Personnel Services	\$ 462,864	\$ 489,144	\$ 26,280	5.68%
Materials and Supplies	\$ 586,550	\$ 606,000	\$ 19,450	3.32%
Contractual Services	\$ 242,565	\$ 255,619	\$ 13,054	5.38%
Depreciation	\$ 38,400	\$ 40,791	\$ 2,391	6.23%
Other Expenditures	\$ 2,200	\$ 2,700	\$ 500	22.73%
Subtotal:	\$ 1,332,579	\$ 1,394,254	\$ 61,675	4.63%
Inter-Dept Charges *	\$ 53,892	\$ 61,531	\$ 7,639	14.17%
Total:	\$ 1,386,471	\$ 1,455,785	\$ 69,314	5.00%

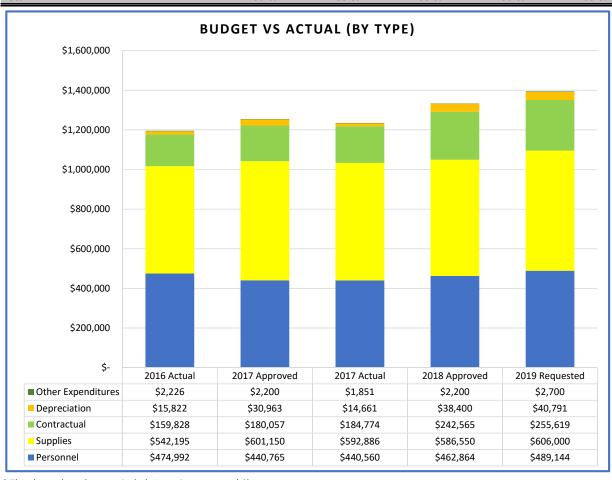




CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT BUDGET VS. ACTUAL COMPARISON - FLEET MAINTENANCE DIVISION

Object Loyal (\$)		2016	2017	2017	2018	2019
Object Level (\$)		Actual	Approved	Actual	Approved	Requested
Personnel Services	\$	474,992	\$ 440,765	\$ 440,560	\$ 462,864	\$ 489,144
Materials and Supplies	\$	542,195	\$ 601,150	\$ 592,886	\$ 586,550	\$ 606,000
Contractual Services	\$	159,828	\$ 180,057	\$ 184,774	\$ 242,565	\$ 255,619
Depreciation	\$	15,822	\$ 30,963	\$ 14,661	\$ 38,400	\$ 40,791
Other Expenditures	\$	2,226	\$ 2,200	\$ 1,851	\$ 2,200	\$ 2,700
Sub-Total:	\$	1,195,063	\$ 1,255,135	\$ 1,234,732	\$ 1,332,579	\$ 1,394,254
Inter-Dept Charges	\$	(1,195,063)	\$ (1,255,135)	\$ 53,335	\$ 53,892	\$ 61,531
Total:	\$	-	\$ -	\$ 1,288,067	\$ 1,386,471	\$ 1,455,785

Object Level (%)	2016	2017	2017	2018	2019
Object Level (%)	Actual	Approved	Actual	Approved	Requested
Personnel Services	39.7%	35.1%	35.7%	34.7%	35.1%
Materials and Supplies	45.4%	47.9%	48.0%	44.0%	43.5%
Contractual Services	13.4%	14.3%	15.0%	18.2%	18.3%
Depreciation	1.3%	2.5%	1.2%	2.9%	2.9%
Other Expenditures	0.2%	0.2%	0.1%	0.2%	0.2%
Total:	100.0%	100.0%	100.0%	100.0%	100.0%



^{*} The above chart does not include Inter-Departmental Charges

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION PERSONNEL SERVICES - FLEET MAINTENANCE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Personnel Services:	\$489,144	\$26,280	5.7%

Health insurance assumes an increase of 8% for 2019, which is equal to the increase experienced by the City in 2018. Salary assumptions include anticipated step increases when due per contract, applicable cost of living adjustments for CWA employees.

Personnel Services (Org: 6006002)

Obje	ct Line	2018	2019	\$ Difference	% Difference
6250	Mechanics	\$ 267,154	\$ 279,376	\$ 12,222	4.6%
6580	Service Award	\$ 5,357	\$ 5,831	\$ 474	8.8%
6590	Sick Pay	\$ 4,805	\$ 4,844	\$ 39	0.8%
6620	Overtime	\$ 32,000	\$ 32,000	\$ -	0.0%
6880	Uniform Allowance	\$ 2,400	\$ 2,400	\$ -	0.0%
6881	Tool Allowance	\$ 1,400	\$ 1,400	\$ -	0.0%
6885	Device Reimbursements	\$ -	\$ 950	\$ 950	#DIV/0!
6920	Unemployment Comp. Ins.	\$ 1,260	\$ 1,056	\$ (204)	-16.2%
6930	Social Security Taxes	\$ 24,218	\$ 24,799	\$ 581	2.4%
6940	City Pension Plan	\$ 58,299	\$ 66,410	\$ 8,111	13.9%
6941	Defined Contribution 401(a) Plan	\$ 4,197	\$ 4,764	\$ 567	13.5%
6950	Term Life Insurance	\$ 1,282	\$ 1,339	\$ 57	4.4%
6960	Group Hospitalization Ins.	\$ 39,802	\$ 42,734	\$ 2,932	7.4%
6961	Long-Term Disability Ins.	\$ 585	\$ 510	\$ (75)	-12.8%
6962	Dental Insurance	\$ 2,453	\$ 2,338	\$ (115)	-4.7%
6964	Health Savings Account	\$ 1,500	\$ 1,500	\$ -	0.0%
6965	Post-Employment Benefits	\$ 14,039	\$ 14,760	\$ 721	5.1%
6966	Retirement Health Savings Acct	\$ 1,380	\$ 1,400	\$ 20	1.4%
6967	Emergency Room Reimbursements	\$ 580	\$ 580	\$ -	0.0%
6968	Vision Insurance Premiums	\$ 153	\$ 153	\$ 	0.0%
Perso	nnel Services Total	\$ 462,864	\$ 489,144	\$ 26,280	5.7%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WAGE AND SALARY BUDGET - 2019 FLEET MAINTENANCE DIVISION

Title	Union	Grade	2018 # of	2018	2019 # of	2019	Position		\$	%
Title	Affiliation	Grade	Positions	Approved	Positions	Requested	Difference	e Difference		Change
FULL TIME POSITIONS										
Senior Mechanic II	AFSCME F/T	15	1.0	\$ 75,590	1.0	\$ 77,290	0.0	\$	1,700	2.2%
Senior Mechanic	AFSCME F/T	13	1.0	\$ 69,708	1.0	\$ 71,201	0.0	\$	1,493	2.1%
Mechanic II	AFSCME F/T	11	2.0	\$ 121,856	2.0	\$ 130,885	0.0	\$	9,029	7.4%
Total Full-Time Positions			4.0	\$ 267,154	4.0	\$ 279,376	0.0	\$	12,222	4.6%
OTHER										
Service Award				\$ 5,357		\$ 5,831		\$	474	8.8%
Sick Pay				\$ 4,805		\$ 4,844		\$	39	0.8%
Overtime				\$ 32,000		\$ 32,000		\$	-	0.0%
Uniform Allowance				\$ 2,400		\$ 2,400		\$	-	0.0%
Tool Allowance				\$ 1,400		\$ 1,400		\$	-	0.0%
Device Reimbursements				\$ -		\$ 950		\$	950	#DIV/0!
Total Other				\$ 45,962		\$ 47,425		\$	1,463	3.2%
Total All			4.0	\$ 313,116	4.0	\$ 326,801	0.0	\$	13,685	4.4%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION MATERIALS AND SUPPLIES - FLEET MAINTENANCE DIVISION

Object Level	FY2019	\$ Change over	% Change
Object Level	Recommended	FY2018	% Change
Materials/Supplies:	\$606,000	\$19,450	3.3%
Wear and use items associated v	vith vehicle maintenance for entire fleet	of City vehicles.	

Materials/Supplies (Org: 6006003)

Obje	t Line	2018	2019	\$ Difference	% Difference
7060	Tire & Tire Repair Expense	\$ 60,000	\$ 65,000	\$ 5,000	8.3%
7070	Gasoline, Oil, Coolant, Etc.	\$ 340,000	\$ 355,000	\$ 15,000	4.4%
7110	Safety Shoes & Supplies	\$ 1,200	\$ 1,200	\$ -	0.0%
7130	Tools, Field Sup., & Small Eq.	\$ 8,100	\$ 7,500	\$ (600)	-7.4%
7150	Office Supplies	\$ 250	\$ 300	\$ 50	20.0%
7300	Machinery & Equip. Maintenance	\$ 2,000	\$ 2,000	\$ -	0.0%
7310	Vehicle Maintenance	\$ 175,000	\$ 175,000	\$ -	0.0%
Mate	ials/Supplies Total	\$ 586,550	\$ 606,000	\$ 19,450	3.3%

MATERIALS AND SUPPLIES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
7060	Tire & Tire Repair Expense	\$ 65,000	Vehicle tires
7070	Gasoline, Oil, Coolant, Etc.	\$ 355,000	Vehicle and equipment fuel
7110	Safety Shoes & Supplies	\$ 1,200	Safety shoes, vests, hard hats, etc.
7130	Tools, Field Sup., & Small Eq.	\$ 7,500	Tire balancing machines, air hoses, etc.
7150	Office Supplies	\$ 300	Paper and pens, notepads
7300	Machinery & Equip. Maintenance	\$ 2,000	General maintenance on existing equipment
7310	Vehicle Maintenance	\$ 175,000	Belts, hoses, filters, brake pads, daily wear items
Total		\$ 606,000	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION CONTRACTUAL SERVICES - FLEET MAINTENANCE DIVISION

Object Loyal	FY2019	\$ Change	% Change						
Object Level	Recommended	Recommended over FY2018							
Contractual Services:	\$255,619	\$13,054	5.4%						
Contracted services for items or emergencies that may be beyond staffs workload or time constraints.									

Contractual Services (Org: 6006004)

Objec	t Line	2018	2019	\$ Difference	% Difference
8030	Casualty Insurance	\$ 7,997	\$ 8,000	\$ 3	0.0%
8031	Insurance - Property	\$ 46,958	\$ 46,960	\$ 2	0.0%
8032	Insurance - Auto	\$ 3,260	\$ 3,260	\$ -	0.0%
8033	Insurance - Broker	\$ 5,417	\$ 5,420	\$ 3	0.1%
8050	Phone/Communications	\$ 2,100	\$ 1,150	\$ (950)	-45.2%
8131	Information Technology Cont'l	\$ 8,151	\$ 7,142	\$ (1,009)	-12.4%
8300	Machinery & Equip. Maintenance	\$ 1,000	\$ 1,000	\$ -	0.0%
8310	Vehicle Maintenance	\$ 90,000	\$ 100,000	\$ 10,000	11.1%
8311	Vehicle Accidents	\$ 4,500	\$ 4,500	\$ -	0.0%
8312	Fleet & Facilities Services	\$ 73,182	\$ 78,187	\$ 5,005	6.8%
Contra	actual Services Total	\$ 242,565	\$ 255,619	\$ 13,054	5.4%

CONTRACTUAL SERVICES DETAIL

	Object Code - Description	Amount Requested	Use of Funds (Description)
8030	Casualty Insurance	\$ 8,000	Allocation provided by Finance
8031	Insurance - Property	\$ 46,960	Allocation provided by Finance
8032	Insurance - Auto	\$ 3,260	Allocation provided by Finance
8033	Insurance - Broker	\$ 5,420	Allocation provided by Finance
8050	Phone/Communications	\$ 1,150	Mobile phones and air cards for mobile workforce applications and GIS mapping
8131	Information Technology Cont'l	\$ 7,142	Department's share of IT costs, please see Appendix A
8300	Machinery & Equip. Maintenance	\$ 1,000	Maintenance and repair of diagnostic tools
8310	Vehicle Maintenance	\$ •	Contractual vehicle and mechanized equipment repairs that exceed the capacity of our internal mechanics due to either scope of repairs or workload
8311	Vehicle Accidents	\$ 4,500	Repairs due to vehicle accidents not covered by insurance
8312	Fleet & Facilities Services	\$ 78,187	Internal service charges for Fleet and Facilities Maintenance
Total		\$ 255,619	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION DEPRECIATION - FLEET MAINTENANCE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Depreciation Expense:	\$40,791	\$2,391	6.2%
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Depreciation expense is calculated annually by the Department of Finance and is based upon the equipment utilized by each department. This amount will fluctuate depending on asset additions and retirements, cost of assets and useful life of the assets.

Other Charges (Org: 6006005) - *Depreciation Expense Only

Object Line	2018		2019	\$ Difference	% Difference
9060 Depreciation Expense	\$ 38,400 \$	i	40,791	\$ 2,391	6.2%
Other Charges Total *	\$ 38,400 \$		40,791	\$ 2,391	6.2%

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION OTHER CHARGES - FLEET MAINTENANCE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Other Charges:	\$2,700	\$500	22.7%
Training helps keep our staff u	up to date on current trends and safety top	oics as well as new vehicle types.	

Other Charges (Org: 6006005) - *Excluding Depreciation Expense

Object Line	2018	2019	\$ Difference	% Difference
9020 Mileage & Small Bus. Expense	\$ 200	\$ 200	\$ -	0.0%
9070 Training	\$ 2,000	\$ 2,500	\$ 500	25.0%
Other Charges Total *	\$ 2,200	\$ 2,700	\$ 500	22.7%

OTHER CHARGES DETAIL

	Object Code - Description	ject Code - Description Amount Requested		Use of Funds (Description)
9020	Mileage & Small Bus. Expense	\$	200	
9070	Training	\$	2,500	
Total		\$	2,700	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT FY2019 BUDGET RECOMMENDATION INTER-DEPT. CHARGES - FLEET MAINTENANCE DIVISION

Object Level	FY2019 Recommended	\$ Change over FY2018	% Change
Inter-Dept. Charges:	\$61,531	\$7,639	14.2%

Billings and Accounting: Various costs of the Finance Department are allocated based on pertinent ratios; for example, the payroll function is allocated based on the percentage of equivalent personnel head count (including temporary part-time), accounts payable function is allocated by the percentage of total budget dollars, and the accounting function is allocated by an average of the two previous ratios.

Electricity: Electricity consumption allocated to the department based on square footage of the department offices compared to the total City Hall building. Meter readings are obtained by the Electric Department at the end of each year. Cost is based on budget DEMEC rate.

Information Technology: Costs are allocated based on percentage of equivalent personnel head count (including temporary part-time) with the exception of items identified specifically for utility fund items such as support for Harris billing system and smart meter network.

Other Indirect Charges: Includes charges for work done by other divisions to benefit the receiving division offset by credits for work done by this division for other divisions. Example: For Parks, the Electric, Street, and Refuse crews performing work for Community Day.

Inter-Dept. Charges

Object Line	2018	2019	\$ Difference	% Difference
Billings and Accounting	\$ 11,090	\$ 15,119	\$ 4,029	36.3%
Electricity	\$ 11,073	\$ 8,758	\$ (2,315)	-20.9%
Information Technology	\$ 20,565	\$ 25,681	\$ 5,116	24.9%
Other Indirect Charges	\$ 11,164	\$ 11,973	\$ 809	7.2%
Inter-Dept. Charges Total	\$ 53,892	\$ 61,531	\$ 7,639	14.2%

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PUBLIC WORKS AND WATER RESOURCES DEPARTMENT GENERAL FUND

CAPITAL IMPROVEMENT PROJECTS (2019 - 2023)

CITY OF NEWARK, DELAWARE

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - GENERAL FUND - <u>REFUSE, STREET AND ENGINEERING DIVISIONS</u> CAPITAL IMPROVEMENTS PROGRAM 2019-2023

			201	9						
Project Number	Project Name	2018 Budget	Reserves & Other Funding	Current Funding	2019	2020	2021	2022	2023	TOTAL
REQSF	Equipment Replacement Program	\$0	\$151,775	\$73,225	\$225,000	\$0	\$480,000	\$0	\$0	\$705,000
H1901	Annual Street Program	0	741,671	858,329	1,600,000	1,625,000	1,650,000	1,675,000	1,750,000	8,300,000
H1902	ADA Accessibility Transition Plan	0	153,150	0	153,150	156,395	159,736	163,178	166,441	798,900
H1903	Bobcat	0	0	0	0	0	75,000	0	0	75,000
H1801	Annual Street Program	641,671	0	0	0	0	0	0	0	0
H1802	ADA Accessibility Transition Plan	140,000	0	0	0	0	0	0	0	0
H1503	Newark Transportation Plan Implementation	704,000	0	20,000	20,000	20,000	20,000	20,000	20,000	100,000
HEQSF	Equipment Replacement Program	200,000	122,796	230,204	353,000	196,000	233,000	60,000	455,000	1,297,000
TEQSF	Equipment Replacement Program	0	47,337	27,663	75,000	0	0	0	35,000	110,000
		\$1,685,671	\$1,216,729	\$1,209,421	\$2,426,150	\$1,997,395	\$2,617,736	\$1,918,178	\$2,426,441	\$11,385,900
	GROSS CAPITAL IMPROVEMENTS	\$1,685,671	\$1,216,729	\$1,209,421	\$2,426,150	\$1,997,395	\$2,617,736	\$1,918,178	\$2,426,441	\$11,385,900
	LESS: USE OF RESERVES	0	0	0	0	0	0	0	0	0
	VEHICLE/EQUIPMENT REPLACEMENT	(200,000)	(321,908)	0	(321,908)	(95,845)	(497,683)	(50,759)	(296,160)	(1,262,355)
	GRANTS	(516,671)	(516,671)	0	(516,671)	(516,671)	(516,671)	(516,671)	(25,000)	(2,091,684)
	BOND ISSUES	(115,000)	(228,150)	0	(228,150)	(631,395)	(234,736)	(278,430)	(587,029)	(1,959,740)
	OTHER FINANCING SOURCES	(854,000)	(150,000)	0_	(150,000)	(150,000)	(150,000)	(150,000)	0	(600,000)
	NET CAPITAL IMPROVEMENTS	\$0	\$0	\$1,209,421	\$1,209,421	\$603,484	\$1,218,646	\$922,318	\$1,518,252	\$5,472,121



REQSF PROJECT NO:

Equipment Replacement Program PROJECT TITLE: Reoccurring (with no end date) **PROJECT STATUS:**

FUNDING SUMMARY:

NEW FUNDING:

CARRYOVER FUNDING: \$ TOTAL FUNDING: \$ 705,000

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Public Works & Water Resources					
DIVISION:	Refuse					
FUND:	General					
PROJECT LOCATION:	Various					
PROJECT PRIORITY:	1 - Highest Priority Level					
	underway and must be completed					
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:					
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	Perpetual
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	Various
Est. Total Cost:	\$ 898,963
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 193,963
% Complete (if underway):	21.6%
Balance to be funded¹:	\$ 705,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	3063026.9623	\$	705,000					
TOTAL PRO	\$	705,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	73,225		78,162			\$ 151,387
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT	193,963	193,963		\$ -	151,775		401,838			\$ 553,613
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 193,963	\$ 193,963	\$ -	\$ -	\$ 225,000	\$ -	\$ 480,000	\$ -	\$ -	\$ 705,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				2019	2020	2021	2022	2023	TOTAL	
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: H1901

PROJECT TITLE: **Annual Street Program**

Reoccurring (with no end date) PROJECT STATUS:

FUNDING SUMMARY:

NEW FUNDING: CARRYOVER FUNDING: \$

8,300,000 TOTAL FUNDING: \$ 8,300,000

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Public Works & Water Resources					
DIVISION:	Street					
FUND:	General					
PROJECT LOCATION:	Various					
PROJECT PRIORITY:	1 - Highest Priority Level					
Project	t underway and must be completed					
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:					
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	Perpetual
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	15
Est. Total Cost:	\$ 8,941,671
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 641,671
% Complete (if underway):	7.2%
Balance to be funded¹:	\$ 8,300,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	3063006.9760	\$	8,300,000					
TOTAL PRO	JECT COST	\$	8,300,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT

In 2016 we contracted with a consultant to utilize an optimization software to analyze our road survey data. This program provided the City the optimal street repair locations and methods to use for the most economical use of our funding. The result of the analysis was confirmation of the need for an increase in funding for road rehabilitation or else the average Pavement Conditions Index (PCI) for the city will continue to decline and the backlog of needed improvements will continue to increase. As we have previously discussed, the optimization analysis shows that we would need to spend approximately \$1.5 - \$2.0 Million each year to maintain our current roadway conditions. We ran deterioration simulations using five different annual funding levels: \$750M, \$1MM, \$1.5MM, "Maintain Current Conditions" and "Improve to average PCI of 80."

\$750M - Backlog increases from \$14.5MM to \$29.2MM, PCI decreases from 76 to 61, % "Poor/Very Poor" increases from 20% to 27% \$1MM - Backlog increases from \$14.5MM to \$24.8MM, PCI decreases from 76 to 65, % "Poor/Very Poor" increases from 20% to 22% \$1.5MM - Backlog increases from \$14.5MM to \$17.2MM, PCI decreases from 76 to 73, % "Poor/Very Poor" decreases from 20% to 13% \$1.75MM - Backlog decreases from \$14.5MM to \$12.9MM, PCI remains the same, % "Poor/Very Poor" decreases from 20% to 8% \$2.1MM - Backlog decreases from \$14.5MM to \$8.8MM, PCI increases from 76 to 80, % "Poor/Very Poor" decreases from 20% to 4%

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	858,329	483,329	908,329	893,077	1,162,971	\$ 4,306,035
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS MSA (Updated 2018)	491,671	2,638	489,033	\$ -	491,671	491,671	491,671	491,671		\$ 1,966,684
BOND ISSUES				\$ -	100,000	500,000	100,000	140,252	587,029	\$ 1,427,281
STATE REVOLVING LOAN				\$ -						\$ -
OTHER CTF	150,000		150,000	\$ -	150,000	150,000	150,000	150,000		\$ 600,000
TOTAL:	\$ 641,671	\$ 2,638	\$ 639,033	\$ -	\$ 1,600,000	\$ 1,625,000	\$ 1,650,000	\$ 1,675,000	\$ 1,750,000	\$ 8,300,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				2019	2020	2021	2022	2023	TOTAL	
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: H1902

PROJECT TITLE: ADA Accessibility Transition Plan PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$
TOTAL FUNDING: \$

798,900 798,900

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Street				
FUND:	General				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Projec	t underway and must be completed				
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:				
İ	Inclusive Community				

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2009
Est. Completion Date:	2024
Est. Useful Life (in years):	20
Est. Total Cost:	\$ 938,900
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 140,000
% Complete (if underway):	14.9%
Balance to be funded¹:	\$ 798,900

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:	1191196.9621	\$	298,900					
Other Contracts:	3063006.9760	\$	500,000					
TOTAL PRO	JECT COST	\$	798,900					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT

The US Department of Justice per the ADA (American with Disabilities Act) requires incorporated communities to establish a transition plan to upgrade their public facilities to meet ADA accessibility standards. At the start of 2016 we had 1689 ramps in the City and 20 locations that are in need of ramps. Out of this total, 1347 were ADA compliant and 342 are non-compliant.

The 2019 ADA Accessibility Contract will address approximately 40 of these non-compliant ramps, assuming favorable bid results that allow us to execute the entire proposed contract. That will leave 291 non compliant ramps by the end of 2019. Using pricing of approximately \$2,800 per ramp, the funding below. \$360,000 of the Balance to be funded amount is beyond the five year period detailed below.

Since we have a plan in place to address non-compliant ramps and are successfully following the plan we are in compliance with the ADA.

*Please be advised that Capital Project (K1303 - FACILITIES ACCESSIBILITY (ADA COMPLIANCE) has been been merged with Capital Project (H1802 - ADA ACCESSIBILITY TRANSITION PLAN). These changes were part of the approved proposal of "Plan B" Funding Sources via Council on 12/4/2017.

			PROJECT FIN	ANCING BY PLA	AN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -					141,441	\$ 141,441
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS CDBG	25,000		25,000	\$ -	25,000	25,000	25,000	25,000	25,000	\$ 125,000
BOND ISSUES	115,000		115,000	\$ -	128,150	131,395	134,736	138,178		\$ 532,459
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 140,000	\$ -	\$ 140,000	\$ -	\$ 153,150	\$ 156,395	\$ 159,736	\$ 163,178	\$ 166,441	\$ 798,900
§ 806.1(4) ESTIMATED ANNUA	L COST OF	OPE	RATING IMPAC	Г:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJ	ECT OR ASSET	INCREMENT	AL COSTS (NET	SAVINGS)						\$ -



PROJECT NO: H1902

PROJECT TITLE: Skid Steer Purchase

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$ 75,000

CARRYOVER FUNDING: \$
TOTAL FUNDING: \$ 75,000

CAPITAL BUDGET - PROJECT DETAIL							
DEPARTMENT:	Public Works & Water Resources						
DIVISION:	Street						
FUND:	General						
PROJECT LOCATION:	FOC						
PROJECT PRIORITY:	3 - Medium-High						
	king a calculated risk in the deferral of this item						
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:							
	Healthy & Active Community						

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2019
Est. Completion Date:	2021
Est. Useful Life (in years):	
Est. Total Cost:	\$ 75,000
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ -
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 75,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	75,000					
Other Contracts:		\$	-					
TOTAL PRO	DJECT COST	\$	75,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

PWWR has from time to time rented a skid steer type piece of equipment for various in-house projects over the past 5 years. It has come in handy on these projects and allowed all divisions to complete tasks more efficiently and effectively. There are several implements that can be fitted to the front of the machine including, but not limited to the following:

snow blower - the anticipated two-way cycletrack on dDelaware Avenue will require a piece of equipment to remove the snow in a smaller space than our traditional plows will be able to. This option would allow us to blow the snow directly into a dump truck for removal from this busy road.

asphalt milling head - Currently asphalt patches are completed in three steps by sawcutting, digging out the old, then laying the new asphalt. This head would allow us to quickly mill out the old paving and lay the new paving, likely in the same day. Use in conjuction with the asphalt patching machine would allow a better repair of problem potholes.

rotary broom - easy cleanup of road surfaces after maintenance operations snow plow

			PROJECT FIN	ANCING BY PLA	N YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -			75,000			\$ 75,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ 75,000
§ 806.1(4) ESTIMATED ANI	NUAL COST OF	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING P	ROJECT OR ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)			750	750	750	\$ 2,250



PROJECT NO: H1503

PROJECT TITLE: Newark Transportation Plan Implementation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$ 100,000

CARRYOVER FUNDING: \$ -

CARRYOVER FUNDING: \$ TOTAL FUNDING: \$ 100,000

FICATION:

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Street				
FUND:	General				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	2 - High Priority Level				
Critical need to remedia	te failing service, prevent failure, or generate savings				
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:				
	Healthy & Active Community				

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2015
Est. Completion Date:	2023
Est. Useful Life (in years):	20
Est. Total Cost:	\$ 1,057,759
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 957,759
% Complete (if underway):	90.5%
Balance to be funded¹:	\$ 100,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	3063006.9760	\$	100,000					
TOTAL PRO	JECT COST	\$	100,000					

 $^{^2}$ Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Newark City Council has approved the "Newark Transportation Plan" and "Newark Bicycle Plan" and this project intends to begin implementing the recommendations contained within each plan.

The major part of this project, the Main Street pedestrian upgrades is scheudled to begin in March of 2019 in conjunction with the repaving of Main Street.

Funding remains in the out years in order to take advantage of grant opportunities, which are typically 20% matches for federal money.

	PROJECT FINANCIN									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	20,000	20,000	20,000	20,000	20,000	\$ 100,000
CAPITAL RESERVES	253,759		253,759	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER DelDOT	704,000		704,000	\$ -						\$ -
TOTAL:	\$ 957,759	\$ -	\$ 957,759	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: HEQSF

PROJECT TITLE: Equipment Replacement Program Reoccurring (with no end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$

RYOVER FUNDING: \$ TOTAL FUNDING: \$ 1,297,000

CAPITAL BUDGET - PROJECT DETAIL				
DEPARTMENT:	Public Works & Water Resources			
DIVISION: Street				
FUND:	General			
PROJECT LOCATION:	Various			
PROJECT PRIORITY: 1 - Highest Priority Level				
Project underway and must be completed				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:				

Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:	Perpetual					
Est. Completion Date:	Perpetual					
Est. Useful Life (in years):	Various					
Est. Total Cost:	\$ 1,992,000					
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 695,000					
% Complete (if underway):	34.9%					
Balance to be funded¹:	\$ 1,297,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION ACCOUNT NUMBER AMOUNT								
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	3063026.9623	\$	1,297,000					
TOTAL PRO	TOTAL PROJECT COST							

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	122,796	100,155	137,155	9,241	180,646	\$ 549,993
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT	695,000	130,031	564,969	\$ -	230,204	95,845	95,845	50,759	274,354	\$ 747,007
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 695,000	\$ 130,031	\$ 564,969	\$ -	\$ 353,000	\$ 196,000	\$ 233,000	\$ 60,000	\$ 455,000	\$ 1,297,000
§ 806.1(4) ESTIMATED ANNUAL COST OF	=	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



TEQSF PROJECT NO:

Equipment Replacement Program PROJECT TITLE: Reoccurring (with no end date) **PROJECT STATUS:**

FUNDING SUMMARY:

NEW FUNDING: CARRYOVER FUNDING: \$

110,000 TOTAL FUNDING: \$ 110,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Engineering				
FUND: General					
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Project underway and must be completed					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
	Sustainable Community				

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:	Perpetual					
Est. Completion Date:	Perpetual					
Est. Useful Life (in years):	Various					
Est. Total Cost:	\$ 110,000					
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ -					
% Complete (if underway):	0.0%					
Balance to be funded¹:	\$ 110,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	FICATION ACCOUNT NUMBER AMOUNT						
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	3063026.9623	\$	110,000				
TOTAL PRO	\$	110,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	27,663				13,194	\$ 40,857
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -	47,337				21,806	\$ 69,143
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ 35,000	\$ 110,000
§ 806.1(4) ESTIMATED ANNUAL COST ()F	OPE	RATING IMPACT	r:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT WATER FUND

CAPITAL IMPROVEMENT PROJECTS (2019 - 2023)

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - WATER FUND - WATER DIVISION CAPITAL IMPROVEMENTS PROGRAM 2019-2023

			201	9						
Project Number	Project Name	2018 Budget	Reserves & Other Funding	Current Funding	2019	2020	2021	2022	2023	TOTAL
W1701	Valve Inspection, Exercising and Rehabilitation	\$0	\$0	\$165,000	\$165,000	\$125,000	\$125,000	\$125,000	\$125,000	\$665,000
W1702	Source Water Protection	20,000	0	20,000	20,000	20,000	20,000	20,000	25,000	105,000
W1703	Laird Tract Well Field Restoration	0	0	0	0	0	225,000	1,925,000	0	2,150,000
W1601	Backup Generation at Water Facilities	82,500	70,000	0	70,000	0	0	0	0	70,000
W1602	Roseville Park Pressure District	0	0	0	0	25,000	250,000	0	0	275,000
W1503	Academy Street Interconnection Pump Station	0	0	50,000	50,000	500,000	0	0	0	550,000
W1402	Air Stripper Replacement - South Well Field	1,700,000	200,000	0	200,000	2,800,000	0	0	0	3,000,000
W1302	Abandon Old Wells	0	5,000	40,000	45,000	0	0	0	0	45,000
W1303	Water System Master Plan and Model	50,000	0	0	0	0	0	0	0	0
W0503	Well Restoration Program	28,000	0	28,000	28,000	58,000	29,000	29,000	29,000	173,000
W0002	Curtis WTP Alt. Disinfection and Facilities Upgrades	673,000	0	25,000	25,000	0	0	0	0	25,000
W9302	Water SCADA System	200,000	350,000	0	350,000	0	0	0	0	350,000
W9308	Water Main Replacement Program	500,000	1,000,000	0	1,000,000	1,000,000	1,000,000	1,000,000	1,250,000	5,250,000
W8605	Water Tank Maintenance	700,000	700,000	0	700,000	350,000	700,000	500,000	0	2,250,000
WEQSF	Equipment Replacement Program	0	107,126	101,874	209,000	210,000	100,000	50,000	50,000	619,000
		\$3,953,500	\$2,432,126	\$429,874	\$2,862,000	\$5,088,000	\$2,449,000	\$3,649,000	\$1,479,000	\$15,527,000
	GROSS CAPITAL IMPROVEMENTS	\$3,953,500	\$2,432,126	\$429,874	\$2,862,000	\$5,088,000	\$2,449,000	\$3,649,000	\$1,479,000	\$15,527,000
	LESS: USE OF RESERVES	(751,000)	(5,000)	0	(5,000)	0	0	0	0	(5,000)
	VEHICLE/EQUIPMENT REPLACEMENT	0	(107,126)	0	(107,126)	(191,796)	(59,447)	(37,999)	(19,541)	(415,909)
	GRANTS	(82,500)	(70,000)	0	(70,000)	0	0	0	0	(70,000
	BOND ISSUES	0	0	0	0	0	0	0	0	0
	STATE REVOLVING LOANS	(3,100,000)	(2,250,000)	0	(2,250,000)	(4,150,000)	(1,700,000)	(3,425,000)	0	(11,525,000)
	OTHER FINANCING SOURCES	(105,000)	0	0	0	0	0	0	0	0
	NET CAPITAL IMPROVEMENTS	(\$85,000)	\$0	\$429,874	\$429,874	\$746,204	\$689,553	\$186,001	\$1,459,459	\$3,511,091



PROJECT NO: W1701

PROJECT TITLE: Valve Inspection, Exercising and Rehabilitation

PROJECT STATUS: In Progress (with end date) **FUNDING SUMMARY: NEW FUNDING:** CARRYOVER FUNDING: \$

TOTAL FUNDING: \$ 665,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION: Water					
FUND: Water					
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	2 - High Priority Level				
Critical need to remediate failing service, prevent failure, or generate savings					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA					
First Year in Program:		2017			
Est. Completion Date:		2023			
Est. Useful Life (in years):		100			
Est. Total Cost:	\$	665,000			
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$	-			
% Complete (if underway):		0.0%			
Balance to be funded¹:	\$	665,000			
1					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION ACCOUNT NUMBER AMOUN							
Labor:		\$	-				
Materials:	5295203.9760	\$	219,450				
Other Contracts:	5295206.9760	\$	445,550				
TOTAL PRO	\$	665,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

According to AWWA, "Each valve should be operated through a full cycle and returned to it's normal position on a schedule that is designed to prevent a buildup of tuberculation [rust formation in pipes as a result of corrosion] or other deposits that could render the valve inoperable or prevent a tight shutoff. The interval of time between operations of valves in critical locations or valves subjected to severe operating conditions should be shorter than for other less important installations, but can be whatever time period is found to be satisfactory based on local experience. The number of turns required to complete the operation cycle should be recorded and compared with permanent installation records to ensure that full gate travel (i.e., it can be opened and closed) is maintained.

This project proposes to develop a valve exercising program utilizing our GIS database and contract documents in 2019 that would be put out to bid in a multi-year contract with an initial goal of exercising all valves in the system within the first 5 years. During this period we would also re-visit previously exercised valves to attempt to determine the appropriate return interval for service in the coming years. Once the first round of this program is complete, this program can be moved into the operating budget.

It is our current expectation that we should exercise valves no less frequently than every 2 to 3 years but we have spread out the initial round over 5 years because it is our expectation that there will be a higher than normal failure rate resulting in higher than normal replacement costs. Each valve that cannot be successfully excercised will be recommended for replacement. If the valve should fail, the replacement will occur as soon as possible to avoid service disruption. We will revisit this estimate annually during the program as we have more data to support optimization.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	165,000	125,000	125,000	125,000	125,000	\$ 665,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 165,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 665,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	ī:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W1702

PROJECT TITLE: Source Water Protection In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$
TOTAL FUNDING: \$

105,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Water				
FUND:	Water				
PROJECT LOCATION:	White Clay Creek Watershed				
PROJECT PRIORITY:	2 - High Priority Level				
Critical need to remediate failing service, prevent failure, or generate savings					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Healthy & Active Community					

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:	2017					
Est. Completion Date:	2027					
Est. Useful Life (in years):	20					
Est. Total Cost:	\$ 125,000					
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 20,000					
% Complete (if underway):	16.0%					
Balance to be funded¹:	\$ 105,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY						
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT			
Labor:		\$	-			
Materials:		\$	-			
Other Contracts:	5295206.9760	\$	105,000			
TOTAL PROJECT COST			105,000			

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

This project will fund source water protection efforts in the White Clay Creek watershed, upstream from our surface water intake at the Curtis Water Treatment Plant. The goal for these projects is to reduce risk of contamination from both point and non point source pollution sources. Additionally, projects may also seek to reduce bacterial, nutrient, and sediment loading in the creek which will improve water quality, improving treatment efficiency, while reducing electrical and chemical costs slowly over time. As an added benefit, in addition to Source Water protection, we are also in discussions with DNREC to allow the efforts from these projects to be included in our NPDES Permit compliance reporting, which would benefit the Stormwater Utility.

Previously, projects of this sort have been funded on an ad-hoc basis using operating funding when available. In order to realize a benefit, this will require a long term commitment allowing community partners with leveraging funding a reliable matching funding source. Additionally, the PWWR Department is working with the UD Water Resources Agency and the Nature Conservancy with funding from the William Penn Foundation to develop the Brandywine-Christina Healthy Water Fund (Fund). The goal of this fund is to implement a funding mechanism and science-based investment protocol to restore the Brandywine-Christina watershed to fishable, swimmable, and potable status within 10 years. A water fund is a mechanism for downstream beneficiaries to invest in upstream conservation measures designed to secure freshwater resources – both quality and quantity. Our funding would be leveraged to access other funding sources, multiplying our impact. Moving forward there will be a consistent source of projects, prioritized by their cost effectiveness at achieving the fishable, swimmable, potable goal. A pilot project for this fund was completed in 2017 and the results have been positive so far. We anticipate another pilot project to be completed in late 2018 to further evaluate the potential benefits of long term participation in the Fund.

For more information on the fund please visit:

http://www.wra.udel.edu/brandywine-christina-healthy-water-fund/

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	20,000		20,000	\$ -	20,000	20,000	20,000	20,000	25,000	\$ 105,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 25,000	\$ 105,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W1703

PROJECT TITLE: Laird Tract Well Field Restoration PROJECT STATUS: In Progress (with end date)

REFERENDUM PROJECT

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$
TOTAL FUNDING: \$

\$ 2,150,000 \$ -\$ 2,150,000

CAPITAL BUDGET - PROJECT DETAIL				
DEPARTMENT:	Public Works & Water Resources			
DIVISION:	Water			
FUND:	Water			
PROJECT LOCATION:	Curtis Water Treatment Plant			
PROJECT PRIORITY:	2 - High Priority Level			
Critical need to remediate failing service, prevent failure, or generate savings				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:				
	Healthy & Active Community			

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:		2017				
Est. Completion Date:		2027				
Est. Useful Life (in years):		20				
Est. Total Cost:	\$	2,150,000				
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$	-				
% Complete (if underway):		0.0%				
Balance to be funded¹:	\$	2,150,000				

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5295206.9760	\$	2,150,000				
TOTAL PRO	\$	2,150,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

'This project will fund the design and construction of a new drinking water treatment plant or supply configuration changes necessary for the reliable supply for the existing treatment plant, capable of processing the existing public supply wells in the City's Laird Tract Well Field (LTWF). The wells, installed in 1971 (Wells 23 & 25) and 1990 (Well 20 & 21), pumped groundwater directly into the system with no filtration; however, as government regulations were developed and due to the City's commitment to providing high quality drinking water, the Laird well water is no longer adequate for direct distribution. Specifically, the water quality of the wells consist of elevated levels of iron,

manganese, and hydrogen sulfide none of which present a risk to human health but do result in poor aesthetics (i.e. taste, color, odor).

The reintroduction of the LTWF wells would provide the City with up to 1.5 million gallons per day, which becomes more important in times of drought, when we would be able to continue to draw up to 1.5 mgd when our creek passby requirements are not being met and our surface water intake is shut down. Alternatives include additional feeds that would introduce well water to the Newark Reservoir, which can have nutrient problems due to pumping of nutrient rich water from our surface water intake. We anticipate testing and rehabilitating the wells in 2020 along with the design of the collection system upgrades with the full project being constructed in 2021.

The wells located in, or adjacent to, the protected lands of the White Clay Creek State Park provide the City a reliable long-term water supply solution. The parkland surrounding the LTWF is in direct contrast to the City's South Well Field Treatment Plant (SWF) where the land use is predominantly commercial/industrial resulting in higher risk of contamination.

We have submitted an application for funding through the State Revolving Loan Fund based on the successful passage of the 2018 Referendum. We anticipate being eligible for Project Planning Advances and Planning Grants to help offset the costs of planning and design.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -			225,000			\$ 225,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS PPA, DW				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -				1,925,000		\$ 1,925,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 225,000	\$ 1,925,000	\$ -	\$ 2,150,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W1601

PROJECT TITLE: Backup Generation at Water Facilities

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$ 70,000

CARRYOVER FUNDING: \$
TOTAL FUNDING: \$ 70,000

CAPITAL BUDGET - PROJECT DETAIL				
DEPARTMENT:	Public Works & Water Resources			
DIVISION:	Water			
FUND:	Water			
PROJECT LOCATION:	Well 17 and Northwest Booster			
PROJECT PRIORITY:	1 - Highest Priority Level			
Project underway and must be completed				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:				
	Healthy & Active Community			

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:	2016					
Est. Completion Date:	2019					
Est. Useful Life (in years):	20					
Est. Total Cost:	\$ 152,500					
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 82,500					
% Complete (if underway):	54.1%					
Balance to be funded¹:	\$ 70,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY						
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT			
Labor:		\$	-			
Materials:		\$	-			
Other Contracts:	5295206.9760	\$	70,000			
TOTAL PROJECT COST			70,000			

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

We currently have backup generation at the South Well Field Treatment Plant (SWF) which would allow the plant to continue operating during an emergency. Unfortunately, there are only three wells that also have backup generation capability and of those, only one could be used during a widespread power outage due to groundwater contamination. Due to this, the fact that we have backup power at SWF is generally irrelevant and the plant would be basically offline during emergencies. Fortunately, as long as the Curtis Treatment Plant is online and fully operational we can go without SWF if needed, albeit at a higher cost of production and the potential need for water restrictions depending on the time of year.

When this project was originally created, two of our three current high production wells - wells 15 and 17 - lacked backup power. This project originally proposed the installation of generators at each well. The sites will be served by natural gas or diesel generators with a preference toward natural gas, if available. Since the original proposal of the project, we have been able to repurpose an obsolete generator from the old Arbour Park booster station to operate Well 15. The cost was less than \$5,000, saving approximately \$50,000 from this project.

Total estimated cost for backup power for a well is \$70,000 for natural gas or \$58,000 for diesel, per location. 2018 will cover engineering and bid preparation for Well 17 and the NW Booster along with the actual construction at the NW Booster. 2019 will cover construction at Well 17.

We have applied for Grant Funding through the FEMA Pre-Disaster Mitigation Grant and we anticipate recieveing this funding once we have the specifications written for the NW Booster Installation. If the grant remains open, we will apply for the Well 17 installation.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -						\$ -
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS FEMA Pre-Disaster Mitigation Grant	82,500		82,500	\$ -	70,000					\$ 70,000
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 82,500	\$ -	\$ 82,500	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:					2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR ASSET INC.			AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W1602

PROJECT TITLE: Roseville Park Pressure District PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$
TOTAL FUNDING: \$

275,000

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Public Works & Water Resources					
DIVISION:	Water					
FUND:	Water					
PROJECT LOCATION:	Roseville Park and Delaplane Manor					
PROJECT PRIORITY:	3 - Medium-High					
	aking a calculated risk in the deferral of this item					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2016
Est. Completion Date:	2021
Est. Useful Life (in years):	50
Est. Total Cost:	\$ 275,000
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ -
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 275,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION ACCOUNT NUMBER AMOU								
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	275,000					
TOTAL PRO	\$	275,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

The higher elevation areas of Roseville Park and Delaplane Manor subdivisions have very low water pressure and little fire protection water flows, often losing pressure entirely when a hydrant downhill is opened creating potential for backflows and excessive water discoloration. The first year of this project was to investigate alternative solutions with costs to be used to budget for design and construction in 2021 depending on funding availability.

We have identified the best solution which is a booster station that will be located on Laurel Avenue. This solution was more cost effective than the other options while providing a larger improvement to pressures. Due to the piping configuration we believe this installation can be performed using in-house forces. If we determine otherwise once we get further into the design phase the construction cost estimate will have to be revised upward at that time.

Deauthorize \$16,757.00 to be transferred to Capital Project W0002.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -		25,000	250,000			\$ 275,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 250,000	\$ -	\$ -	\$ 275,000
§ 806.1(4) ESTIMATED ANI	NUAL COST OF	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING P	ROJECT OR ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)	2,500	2,500	2,500	2,500	2,500	\$ 12,500



PROJECT NO: W1503

PROJECT TITLE: Academy Street Interconnection Pump Station

PROJECT STATUS: In Progress (with end date) **FUNDING SUMMARY: NEW FUNDING:** CARRYOVER FUNDING: \$

550,000 TOTAL FUNDING: \$

CAPITAL	. BUDGET - PROJECT DETAIL				
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Water				
FUND:	Water				
PROJECT LOCATION:	Academy Street and Waterworks Lane				
PROJECT PRIORITY:	3 - Medium-High				
The City would be taking a calculated risk in the deferral of this item					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
	Sustainable Community				

§ 806.1(3) SUMMARY OF PROJECT	DATA	
First Year in Program:		2015
Est. Completion Date:		2020
Est. Useful Life (in years):		15
Est. Total Cost:	\$	550,000
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$	-
% Complete (if underway):		0.0%
Balance to be funded¹:	\$	550,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	550,000					
TOTAL PRO	\$	550,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget vear and/or "out vears."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

The City of Newark's drinking water currently comes from one of three sources, the Newark Water Treatment Plant (NWTP), South Well Field (SWF), and interconnections with Suez (formerly United Water) and Artesian Water Companies. If we were to have a long term outage at the NWTP (plant maintenance or failure resulting in NWTP being fully or partially offline for several days), SWF will be unable to keep up with demand, requiring the purchase of water from either Suez or Artesian. NWTP can usually keep up with demand if SWF were to be out of service but may require water purchases if the SWF were to fail during the peak season. In 2014 we had to purchase water from United during the NWTP filter rehab project and experienced a failure of the 2.0 MGD pump, requiring significant repairs.

Our interconnection with Suez, located at the intersection of Academy Street and Waterworks Lane, is the existing interconnection location best suited to serve as the backup supply for the NWTP. The existing station has three pumps which produce 1.0, 1.5 and 2.0 million gallons per day, located in the basement of the old brick building. The pumps and building at this location are in exceedingly poor condition and will require significant repairs and possibly complete replacement if we are to rely on them for backup water service long term. This project scope has been modified in 2017 and beyond due to the relocation of the interconnection because of a relocation of the Suez water interconnection location to the south side of the railroad tracks due to the construction of the new Train Station. The new location features standpipes and valves which we will connect a portable pump on a temporary basis if the need for water purchases arises. We have an oncall availability agreement with Godwin Pumps to be able to have this interconnection up and running within 24 hours. The planning for the out years contemplates a permanent building and pumps or self contained pump package similar to recent upgrades at the Northwest Booster Station and the Arbour Park Booster Station.

Deauthorize \$36,486.00 to be transferred to Capital Project W0002.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	50,000	500,000				\$ 550,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 550,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	ī:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W1402

PROJECT TITLE: Air Stripper Replacement - South Well Field

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$ 1,300,000

CARRYOVER FUNDING: \$ 1,700,000

TOTAL FUNDING: \$ 3,000,000

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Public Works & Water Resources					
DIVISION:	Water					
FUND:	Water					
PROJECT LOCATION:	South Well Field Treatment Plant					
PROJECT PRIORITY:	2 - High Priority Level					
	e failing service, prevent failure, or generate savings					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2014
Est. Completion Date:	2020
Est. Useful Life (in years):	15
Est. Total Cost:	\$ 3,010,306
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 10,306
% Complete (if underway):	0.3%
Balance to be funded¹:	\$ 3,000,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER AMOUN							
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9740	\$	3,000,000					
TOTAL PRO	\$	3,000,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT

The current air stripper has been in service for approximately 15 years running 24/7 and is likely nearing the end of it's service life. The system is very difficult to maintain due to its location on top of the raw water tank. Although effective at removing the harmful contaminents in the groundwater, it is unable to adequately treat all of the available source water (wells 14r and 16) resulting in these wells sitting idle. Furthermore, because there is no redundency in the treatment process if the air stripper were to fail the South Well Field Treatment Plant (which accounts to roughly 40% of the City's water production) would need to be shut down.

The 2018 Referendum included this project to utilize the State Revolving Loan in order to complete the design and construction. As part of the planning process for the referendum, our consultant, AECOM, reviewed the process upgrades necessassry and has recommended several new configuation possibilities at the SWFTP that would incorporate the air stripping requirements as well as removal or rehabilitation of the lead-coated storage tanks at the site.

Due to the current rehabilitation at our Curtis Water Treatment Plant, we anticipate the design and bidding to be completed in 2019 and construction beginning in early 2020.

Deauthorize \$195,000.00 to be transferred to Capital Project W0002.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -						\$ -
CAPITAL RESERVES	10,306	10,306		\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	1,700,000			\$ 1,700,000	200,000	2,800,000				\$ 3,000,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 1,710,306	\$ 10,306	\$ -	\$ 1,700,000	\$ 200,000	\$ 2,800,000	\$ -	\$ -	\$ -	\$ 3,000,000
§ 806.1(4) ESTIMATED ANNUAL COST C)F	OPE	RATING IMPACT	T:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W1302

PROJECT TITLE: **Abandon Old Wells**

PROJECT STATUS: In Progress (with end date) **FUNDING SUMMARY: NEW FUNDING:** CARRYOVER FUNDING: \$

TOTAL FUNDING: \$ 45,000

CAPITAL BUDGET - PROJECT DETAIL							
DEPARTMENT:	Public Works & Water Resources						
DIVISION:	Water						
FUND:	Water						
PROJECT LOCATION:	Various						
PROJECT PRIORITY:	3 - Medium-High						
The City would be to	sking a calculated risk in the deferral of this item						
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:							
	Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2013
Est. Completion Date:	2019
Est. Useful Life (in years):	Various
Est. Total Cost:	\$ 46,718
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 1,718
% Complete (if underway):	3.7%
Balance to be funded¹:	\$ 45,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	45,000					
TOTAL PRO	\$	45,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

The Water Department has over time developed various well fields that are no longer in use. In several cases the well head and associated piping including the well itself are still on site and subject to vandalism and possible contamination of the aquifer. This project will allow us to seal the old wells and deactivate the sites. Wells that we will be considering for closure include those associated with the City of Newark's North Well Field at Lewis Park. Any work will be done in coordination with the DNREC Division of Water Water Supply Section to obtain authorized abandonment permits and reports.

Deauthorize \$35,000.00 to be transferred to Capital Project W0002.

	PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:		Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES					\$ -	40,000					\$ 40,000
CAPITAL RESERVES		1,718	1,718		\$ -	5,000					\$ 5,000
EQUIPMENT REPLACEMENT					\$ -						\$ -
GRANTS (SPEC	IFY)				\$ -						\$ -
BOND ISSUES					\$ -						\$ -
STATE REVOLVING LOAN					\$ -						\$ -
OTHER (SPEC	IFY)				\$ -						\$ -
TOTAL:		\$ 1,718	\$ 1,718	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:			2019	2020	2021	2022	2023	TOTAL			
OPERATING / MAINTAININ	G PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W0503

PROJECT TITLE: Well Restoration Program Reoccurring (with no end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$

RYOVER FUNDING: \$

TOTAL FUNDING: \$ 17

CAPITAL	CAPITAL BUDGET - PROJECT DETAIL								
DEPARTMENT:	Public Works & Water Resources								
DIVISION:	Water								
FUND:	Water								
PROJECT LOCATION:	Various								
PROJECT PRIORITY:	1 - Highest Priority Level								
Project underway and must be completed									
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:									

Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2005
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	0
Est. Total Cost:	\$ 221,576
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 48,576
% Complete (if underway):	21.9%
Balance to be funded¹:	\$ 173,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	173,000					
TOTAL PRO	JECT COST	\$	173,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Restore / Redevelop Wells 11, 12, 13, 14, 15, 16, 17, 20, 23, 25 as needed in anticipation of routine maintenance and rehabilitation.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	28,000	58,000	29,000	29,000	29,000	\$ 173,000
CAPITAL RESERVES	48,576		48,576	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 48,576	\$ -	\$ 48,576	\$ -	\$ 28,000	\$ 58,000	\$ 29,000	\$ 29,000	\$ 29,000	\$ 173,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:		Г:	2019	2020	2021	2022	2023	TOTAL		
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET	SAVINGS)						\$ -



PROJECT NO: W0002 PROJECT TITLE:

Curtis WTP Alternative Disinfection and Facilities Upgrades In Progress (with end date)

FUNDING SUMMARY: NEW FUNDING: CARRYOVER FUNDING: \$

TOTAL FUNDING: \$ 25,000

CAPITAL	. BUDGET - PROJECT DETAIL
DEPARTMENT:	Public Works & Water Resources
DIVISION:	Water
FUND:	Water
PROJECT LOCATION:	Curtis Water Treatment Plant
PROJECT PRIORITY:	1 - Highest Priority Level
Project	t underway and must be completed
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:
	Sustainable Community

PROJECT STATUS:

§ 806.1(3) SUMMARY OF PROJECT DATA								
First Year in Program:	2015							
Est. Completion Date:	2019							
Est. Useful Life (in years):	20							
Est. Total Cost:	\$ 1,242,089							
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 1,217,089							
% Complete (if underway):	98.0%							
Balance to be funded¹:	\$ 25,000							

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9740	\$	25,000					
TOTAL PRO	\$	25,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

This project will provide alternative disinfection equipment at the Curtis Water Treatment Plant (CWTP). The gaseous chlorine that we currently use is subject to increasing regulatory action. We plan to replace the gaseous chlorine with bulk sodium hypochlorite with a system similar to what is in use at the South Well Field Treatment Plant. As part of our study to select an appropriate replacement for gaseous chlorine we investigated the need for building upgrades and identified a variety of necessary rehabilitation work including roof and siding replacement, insulation replacement, ventilation upgrades, and interior layout changes.

Work has commenced on this projet as of August 2018. We anticipate the majority of the work to be completed by Spring 2019. We have added \$25,000 in 2019 funding to cover any incidentals that will innevitably arise on a \$2mm project.

Funds were deauthorized from the following Capital Projects (W1101, W1102, W1302, W1402, W1503, W1602, W8605 and W9308) in the amount of \$673,000.00 to fund Capital Project W0002 for 2018.

PROJECT FINANCING BY PLAN YEAR											
§ 806.1(3) SOURCE OF FUN	DS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES					\$ -	25,000					\$ 25,000
CAPITAL RESERVES		1,217,089	41,100	1,175,989	\$ -						\$ -
EQUIPMENT REPLACEMENT	T				\$ -						\$ -
GRANTS	(SPECIFY)				\$ -						\$ -
BOND ISSUES					\$ -						\$ -
STATE REVOLVING LOAN					\$ -						\$ -
OTHER	(SPECIFY)				\$ -						\$ -
TOTAL:		\$ 1,217,089	\$ 41,100	\$ 1,175,989	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:			2019	2020	2021	2022	2023	TOTAL			
OPERATING / MAIN	TAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W9302

PROJECT TITLE: Water SCADA System PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$
TOTAL FUNDING: \$

350,000 35 -350,000

CAPITAL	BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources					
DIVISION:	Water					
FUND:	Water					
PROJECT LOCATION:	Various					
PROJECT PRIORITY:	2 - High Priority Level					
	e failing service, prevent failure, or generate savings					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA	
First Year in Program:		1993
Est. Completion Date:		2019
Est. Useful Life (in years):		15
Est. Total Cost:	\$ 61	7,505
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 26	7,505
% Complete (if underway):		43.3%
Balance to be funded¹:	\$ 35	0,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ATION ACCOUNT NUMBER AMOUN							
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	350,000					
TOTAL PRO	\$	350,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT

Development of a SCADA System for the PWWR Department will allow us to more efficiently and effectively manage and monitor the utilities. We currently have four water plant operator positions that work three shifts per day, every day of the year. With a SCADA System, we will significantly reduce the need to drive to each facilities at least once per shift. This will also free up time for the operators to perform routine preventative maintenance tasks that are currently either contracted out or not completed at all. Management staff will also be able to monitor system data and performance to assist the planning of capital spending and recommend operational efficiencies.

After a thorough search, the City in 2016 selected a new integrator experienced in the water and wastewater industry to provide a turn-key product. Our integrator, ACS, is currently working on the implementation of all of the water facilities, including assisting in the rehabilitation of the Curtis Water Treatment Plant.

			PROJECT FIN	ANCING BY PLA	N YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -						\$ -
CAPITAL RESERVES	67,505	7,974	59,531	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	200,000		200,000	\$ -	350,000					\$ 350,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 267,505	\$ 7,974	\$ 259,531	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000
§ 806.1(4) ESTIMATED ANNUAL COST OF	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)	1,500	1,500	1,500	1,500	1,500	\$ 7,500



PROJECT NO: W9308

PROJECT TITLE: Water Main Replacement Program Reoccurring (with no end date)

FUNDING SUMMARY:

NEW FUNDING: \$
CARRYOVER FUNDING: \$
TOTAL FUNDING: \$

4,750,000 500,000 **5,250,000**

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Water				
FUND:	Water				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Projec	t underway and must be completed				
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:				
	Sustainable Community				

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	1993
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	75+
Est. Total Cost:	\$ 5,327,407
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 77,407
% Complete (if underway):	1.5%
Balance to be funded¹:	\$ 5,250,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	5,250,000					
TOTAL PRO	\$	5,250,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT

Ductile and cast iron water mains have an expected lifespan of between 75 and 100 years and make up over 95% of our distribution network. There are a large number of mains in Newark's system that are either approaching the end of their expected lifespan or have experienced a higher than normal rate of failure (main breaks). In order to properly replace mains with a 100 year lifespan, we should be replacing 1% per year, assuming an even distribution of pipe age. Current year pricing for replacement of 6" water main was \$240 per foot which means that in order to sustainably manage our distribution network, we should be spending a minimum of \$1,500,000 per year. This project involves either replacing mains or lining the interior to minimize main breaks, improve water quality, and improve fire flow. In 2017 we completed replacement of the water main along East Park Place from South Chapel to Manuel Street and replacement of the main in Dallam Road from Old Oak to Bent Lane. In 2018, we did not complete a project as funding was not available prior to passage of the 2018 Referendum. In 2019, using State revolving Loan Funds, we intend to complete the portion of East Park Place from Manuel to Academt Street and replace the water main along Wilson Road and upgrade an undersized pipe along West main Street. Exhibits are attached to this CIP sheet.

We also intend to initiate the evaluation of several conditions assessment technologies to help guide the decision process for the segments to address in the out-years.

Deauthorize \$177,758.00 to be transferred to Capital Project W0002.

			PROJECT FIN	ANCING BY PLA	N YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -					1,250,000	\$ 1,250,000
CAPITAL RESERVES	77,407	4,534	72,873	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	500,000			\$ 500,000	1,000,000	1,000,000	1,000,000	1,000,000		\$ 4,000,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 577,407	\$ 4,534	\$ 72,873	\$ 500,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,250,000	\$ 5,250,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: W8605

PROJECT TITLE: **Water Tank Maintenance** PROJECT STATUS: Reoccurring (with no end date) **FUNDING SUMMARY:**

NEW FUNDING CARRYOVER FUNDING: \$ TOTAL FUNDING: \$ 2,250,000

1.550.000 700,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Water				
FUND:	Water				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	2 - High Priority Level				
	e failing service, prevent failure, or generate savings				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
	Sustainable Community				

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	1986
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	15
Est. Total Cost:	\$ 2,271,763
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 21,763
% Complete (if underway):	1.0%
Balance to be funded¹:	\$ 2,250,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5295206.9760	\$	2,250,000					
TOTAL PRO	\$	2,250,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT

This project will continue the evaluation and rehabilitation of our water tanks in various locations throughout the City. Water Tank surface coatings generally last 15 years. Several of our tanks have lead present in the existing coatings. Lead removal will be required at the next scheduled painting and additional funding has been including to account for additional testing, notification and safety precautions. The current painting schedule is:

2019 - New London Tank (2,000,000 gallon ground tank) - \$500,000, last painted in 1997

2020 - South Well Field raw and finished water tanks (each 500,000 gallon ground tanks) - Lead present is current coating. \$300,000 each, need to be completed simultaneously because the treatment plant will have to be taken offline during blasting and painting. May require water purchases during painting so I have included \$100,000 to cover this cost. Last painted in 2003. Funding was authorized in 2018 Budget to be part of SRL Funding resulting from the passage of the 2018 Referendum. In order to line up with the CWTP Upgrades, this funding will carry to 2020.

2020 - Dallam Road Tank (565,000 gallon ground tank) - Lead present is current coating. \$350,000, last painted in 2003

2021 - Nottingham Road Tank (220,000 gallon ground tank) -Lead present is current coating. \$350,000, last painted in 2003

2021 - Arbour Park Tank (500,000 gallon ground tank) - \$350,000, last painted in 2003

2030 - Windy Hills Tank (300,000 gallon elevated tank) - \$900,000, last painted in 2015

2031 - Concrete Tank (3,200,000 gallon ground tank) - \$550,000, last painted in 2015

2031 - Louviers Tank (1,000,000 gallon elevated tank) - \$750,000, last painted in 2016

Due to the presence of lead in the existing coatings and the methods required to remove and dispose of the leasd properly, we are exploring the option of removing the entire tank and replacing them. Preliminary cost estimates show similar pricing when all things are considered.

Deauthorize \$55,963.00 to be transferred to Capital Project W0002.

			PROJECT FIN	ANCING BY PLA	N YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -						\$ -
CAPITAL RESERVES	21,763	13,863	7,900	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	700,000			\$ 700,000	700,000	350,000	700,000	500,000		\$ 2,250,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 721,763	\$ 13,863	\$ 7,900	\$ 700,000	\$ 700,000	\$ 350,000	\$ 700,000	\$ 500,000	\$ -	\$ 2,250,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



WEQSF **PROJECT NO:**

Equipment Replacement Program PROJECT TITLE: Reoccurring (with no end date) **PROJECT STATUS:**

FUNDING SUMMARY:

NEW FUNDING: CARRYOVER FUNDING: \$

619,000

TOTAL FUNDING: \$ 619,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Water				
FUND:	Water				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Project underway and must be completed					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA					
First Year in Program:	Perpetual				
Est. Completion Date:	Perpetual				
Est. Useful Life (in years):	Various				
Est. Total Cost:	\$ 784,000				
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 165,000				
% Complete (if underway):	21.0%				
Balance to be funded¹:	\$ 619,000				

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER AMOUNT						
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5295206.9623	\$	619,000				
TOTAL PRO	\$	619,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	101,874	18,204	40,553	12,001	30,459	\$ 203,091
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT	165,000		165,000	\$ -	107,126	191,796	59,447	37,999	19,541	\$ 415,909
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 165,000	\$ -	\$ 165,000	\$ -	\$ 209,000	\$ 210,000	\$ 100,000	\$ 50,000	\$ 50,000	\$ 619,000
§ 806.1(4) ESTIMATED ANNUAL COST	OF	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OF	ASSET	INCREMENT	AL COSTS (NET	SAVINGS)						\$ -

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT SEWER FUND

CAPITAL IMPROVEMENT PROJECTS (2019 - 2023)

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - SEWER FUND - SEWER DIVISION CAPITAL IMPROVEMENTS PROGRAM 2019-2023

			201	9						
Project Number	Project Name	2018 Budget	Reserves & Other Funding	Current Funding	2019	2020	2021	2022	2023	TOTAL
S1602	Sewer SCADA System	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S0904	Sanitary Sewer Study and Repairs	1,261,701	800,000	0	800,000	1,000,000	800,000	800,000	1,000,000	4,400,000
SEQSF	Equipment Replacement Program	0	0	0	0	0	0	0	300,000	300,000
		\$1,336,701	\$800,000	\$0	\$800,000	\$1,000,000	\$800,000	\$800,000	\$1,300,000	\$4,700,000
	GROSS CAPITAL IMPROVEMENTS	\$1,336,701	\$800,000	\$0	\$800,000	\$1,000,000	\$800,000	\$800,000	\$1,300,000	\$4,700,000
	LESS: USE OF RESERVES	(436,701)	0	0	0	0	0	0	0	0
	VEHICLE/EQUIPMENT REPLACEMENT	0	0	0	0	0	0	0	0	0
	GRANTS	0	0	0	0	0	0	0	0	0
	BOND ISSUES	0	0	0	0	0	0	0	0	0
	STATE REVOLVING LOANS	(500,000)	(800,000)	0	(800,000)	(1,000,000)	(800,000)	(800,000)	0	(3,400,000)
	OTHER FINANCING SOURCES	0	0	0	0	0	0	0	0	0
	NET CAPITAL IMPROVEMENTS	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,300,000	\$1,300,000



PROJECT NO: S0904

PROJECT TITLE: Sanitary Sewer Study and Repairs PROJECT STATUS: Reoccurring (with no end date)

REFERENDUM PROJECT

FUNDING SUMMARY:

NEW FUNDING: SCARRYOVER FUNDING:

\$ 4,400,000

YOVER FUNDING: \$ TOTAL FUNDING: \$ 4,400,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Sewer				
FUND:	Sewer				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Project	t underway and must be completed				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA					
First Year in Program:		2009			
Est. Completion Date:		Perpetual			
Est. Useful Life (in years):		50+			
Est. Total Cost:	\$	5,615,811			
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$	1,215,811			
% Complete (if underway):		21.6%			
Balance to be funded¹:	\$	4,400,000			

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION ACCOUNT NUMBER AMOU							
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5395306.9760	\$	4,400,000				
TOTAL PRO	\$	4,400,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

'This project affords the continuation of our cleaning and investigation of the condition of the sanitary sewer system and will result in recommendations for repair. To date we have inspected approximately 10 miles of the 95 miles of sanitary sewer main in our system. Using results from 10 miles of inspections we have identified and prioritized approximately \$2,600,000 worth of necessary repairs. To date our inspections have been prioritized based on line size and backup history. As part of the ongoing sanitary sewer master plan project we have completed sanitary sewer flow monitoring in the Christina Basin and the White Clay Basin largely paid for by grant funds throught the State Revolving Loan Fund. This flow monitoring will allow us to target inspections on those areas where we are experiencing the most rainfall derived inflow and infiltration (RDII) which is a good indicator of structural damage in pipes. (rainfall can get into the pipes through cracks and holes). This will allow for a more targeted, data driven approach to investigations. The flow monitoring will also be used for a capacity model that will allow us to target select lines for capacity increases when performing rehabilitation efforts.

In 2018 we completed repairs and installed lining in segments of pipe identified in the above referenced investigations. We also inspected critical areas ahead of planned DelDOT and City paving jobs, most notably Main Street and Delaware Avenue. In 2019 we plan to continue targeted inspections based on data derived from flow testing. We also plan to ramp up rehabilitation/replacement as determined by the prioritization and capacity model driven pipe diameter increases. Area maps for planned work in 2019 are attached.

Deauthorize \$75,000.00 to be transferred to CIP Project S1602.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	400,000		400,000	\$ -					1,000,000	\$ 1,000,000
CAPITAL RESERVES	315,811	313,434	2,377	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	500,000		500,000	\$ -	800,000	1,000,000	800,000	800,000		\$ 3,400,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 1,215,811	\$ 313,434	\$ 902,377	\$ -	\$ 800,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,400,000
§ 806.1(4) ESTIMATED ANNUAL COST OF	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



SEQSF PROJECT NO:

Equipment Replacement Program PROJECT TITLE: Reoccurring (with no end date) **PROJECT STATUS:**

FUNDING SUMMARY:

NEW FUNDING: CARRYOVER FUNDING: \$

TOTAL FUNDING: \$ 300,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Sewer				
FUND:	Sewer				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
	underway and must be completed				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA					
First Year in Program:	Perpe	etual			
Est. Completion Date:	Perpe	etual			
Est. Useful Life (in years):	Vai	rious			
Est. Total Cost:	\$ 300,	000			
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$				
% Complete (if underway):		0.0%			
Balance to be funded¹:	\$ 300,	000			

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION ACCOUNT NUMBER AMOUNT							
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5395306.9760	\$	300,000				
TOTAL PRO	\$	300,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -				300,000		\$ 300,000
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000
§ 806.1(4) ESTIMATED ANNUAL COST C)F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT STORMWATER FUND

CAPITAL IMPROVEMENT PROJECTS (2019 - 2023)

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STORMWATER FUND - STORMWATER DIVISION CAPITAL IMPROVEMENTS PROGRAM 2019-2023

			201	9						
Project Number	Project Name	2018 Budget	Reserves & Other Funding	Current Funding	2019	2020	2021	2022	2023	TOTAL
Q1802	Rodney Regional Stormwater Park	\$1,625,000	\$4,375,000	\$0	\$4,375,000	\$1,000,000	\$2,000,000	\$0	\$0	\$7,375,000
Q1301	Storm Drainage Improvements	420,000	50,000	441,000	491,000	463,050	536,203	510,513	525,000	2,525,766
Q0101	NPDES (Phase II) Stormwater Quality Program	40,000	40,000	0	40,000	40,000	40,000	40,000	40,000	200,000
QEQSF	Equipment Replacement Program	18,000	161,375	153,625	315,000	30,000	0	0	45,000	390,000
		\$2,103,000	\$4,626,375	\$594,625	\$5,221,000	\$1,533,050	\$2,576,203	\$550,513	\$610,000	\$10,490,766
	GROSS CAPITAL IMPROVEMENTS	\$2,103,000	\$4,626,375	\$594,625	\$5,221,000	\$1,533,050	\$2,576,203	\$550,513	\$610,000	\$10,490,766
	LESS: USE OF RESERVES	(40,000)	(40,000)	0	(40,000)	0	0	0	0	(40,000)
	VEHICLE/EQUIPMENT REPLACEMENT	(18,000)	(161,375)	0	(161,375)	(13,489)	0	0	(26,245)	(201,109)
	GRANTS	0	(50,000)	0	(50,000)	0	(50,000)	0	0	(100,000)
	BOND ISSUES	0	0	0	0	0	0	0	0	0
	STATE REVOLVING LOANS	(1,415,000)	(4,375,000)	0	(4,375,000)	(1,000,000)	(2,000,000)	0	0	(7,375,000)
	OTHER FINANCING SOURCES	0	0	0_	0	0	0	0	0	0
	NET CAPITAL IMPROVEMENTS	\$630,000	\$0	\$594,625	\$594,625	\$519,561	\$526,203	\$550,513	\$583,755	\$2,774,657



PROJECT NO: Q1802

PROJECT TITLE: **Rodney Regional Stormwater Park**

PROJECT STATUS: New Project **FUNDING SUMMARY:**

NEW FUNDING: CARRYOVER FUNDING: \$ 1,415,000 TOTAL FUNDING: \$ 7,375,000

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Public Works & Water Resources					
DIVISION:	Stormwater					
FUND:	Stormwater					
PROJECT LOCATION:	103 Hillside Road					
PROJECT PRIORITY:	1 - Highest Priority Level					
Project underway and must be completed						
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
Healthy & Active Community						

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:	2018						
Est. Completion Date:	2021						
Est. Useful Life (in years):	100						
Est. Total Cost:	\$ 7,585,000						
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 210,000						
% Complete (if underway):	2.8%						
Balance to be funded¹:	\$ 7,375,000						

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER	AMOUNT					
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5595506.9720	\$	7,375,000				
TOTAL PRO	\$	7,375,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

REFERENDUM PROJECT City staff has identified the shuttered Rodney Dormitory parcel as ideally located at the top of a watershed in Newark with downstream drainage problems. The City has entered into a contract to purchase the parcel from the University of Delaware. After a year long public process to identify the features that residents wanted to see incorporated into the park and stormwater facility, the project was approved by voters in the 2018 Referendum. The project was also approved for funding through the State Revolving Loan Fund for \$9mm at 2% interest. The funding shown below is the latest estimate of timeline for completing the project, including remediation, demolition, purchase of the property, grading, and park amenities. Project Planning Advances and Planning Grants as well as Brownfield funding, have also been taken advantage of for this project.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	210,000		210,000	\$ -						\$ -
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	1,415,000			\$ 1,415,000	4,375,000	1,000,000	2,000,000			\$ 7,375,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 1,625,000	\$ -	\$ 210,000	\$ 1,415,000	\$ 4,375,000	\$ 1,000,000	\$ 2,000,000	\$ -	\$ -	\$ 7,375,000
§ 806.1(4) ESTIMATED ANNUAL COST OF	F	OPE	RATING IMPACT	:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	AVINGS)						\$ -



PROJECT NO: Q1301

Storm Drainage Improvements PROJECT TITLE: PROJECT STATUS: Reoccurring (with no end date) **FUNDING SUMMARY:**

NEW FUNDING: CARRYOVER FUNDING: \$

TOTAL FUNDING: \$ 2,525,766

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Stormwater				
FUND:	Stormwater				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Project underway and must be completed					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2013
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	75+
Est. Total Cost:	\$ 3,546,063
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 1,020,297
% Complete (if underway):	28.8%
Balance to be funded¹:	\$ 2,525,766

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER	UNT NUMBER AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:	5595506.9720	\$	2,525,766					
TOTAL PRO	\$	2,525,766						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget vear and/or "out vears."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

An engineering consultant has completed a detailed CCTV Inspection and Priority Ranking in order to aid the decision making for the future replacement or rehabilitation of all of the known Corrugated Metal Pipe (CMP) in the City. The issues with the premature failure and deterioration of CMP has been well documented over the past several years and will be the focus of this Capital Project over the next 10 years. The memorandum from JMT identifies approximately \$3.5mm in lining and replacement of CMP over the next 10 years. PWWR recommends the CIP reflect approximately \$350,000 per year over the next 10 years to address the problem pipe. JMT has prepared a 14 year plan for the repairs and annual repair locations has been presented as part of any Contract Recommendation brought to Council in annual budget presentations each year. Exhibits are attached for the anticipated work in 2019. Emergent and newly identified problems may arise over the term of this project and will be paid for under this project. Examples of this type of emergent work are the Jenneys Run Culvert Removal in 2016 and the Creek Bend Court Outfall Failure in 2014. In 2018 we replaced the outfall of a culvert crossing on Wyoming Road which has recently failed. We have also identified City owned Parcels The City has ownership of numerous parks throughout the city, some of which are simply maintained as open area and are very underutilized. Several of those parks are around or near critical drainageways and the opportunity exists to design detention basins or water quality facilities at those locations. The parks department could realize savings by removing the maintenance responsibilities and the public works and water resources department could utilize these areas to mitigate flooding and water quality issues throughout the City. The areas were identified for a number of reasons, including, but not limited to, location within a watershed, level of probable benefit, ease of construction, reduction in maintenance burden on Parks staff and aesthetic benefit of plantings. Parks Dept. has been consulted and will work with PWWR to determine availability of property. Grant opportunities also exists to incorporate innovative design and new technologies to study the effect on the watershed.

The following parks have been identified for further review and study:

- 1. Park off of Short Lane
- 2. Lewis Park
- 3. Handloff Park (NE Corner)
- 4. Kells Park
- 5. Devon Park

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	420,000		420,000	\$ -	441,00	463,05	486,203	510,513	525,000	\$ 2,425,766
CAPITAL RESERVES	600,297	148,573	451,724	\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS SRF Planning				\$ -	50,00	0	50,000			\$ 100,000
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 1,020,297	\$ 148,573	\$ 871,724	\$ -	\$ 491,00	0 \$ 463,05	536,203	\$ 510,513	\$ 525,000	\$ 2,525,766
§ 806.1(4) ESTIMATED ANNUAL COST C)F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -



PROJECT NO: Q0101

PROJECT TITLE: **NPDES (Phase II) Stormwater Quality Program**

Reoccurring (with no end date) PROJECT STATUS:

FUNDING SUMMARY: NEW FUNDING: CARRYOVER FUNDING: \$

160,000 40,000 TOTAL FUNDING: \$ 200,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Public Works & Water Resources				
DIVISION:	Stormwater				
FUND:	Stormwater				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	1 - Highest Priority Level				
Project underway and must be completed					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:	2009						
Est. Completion Date:	Perpetual						
Est. Useful Life (in years):	20						
Est. Total Cost:	\$ 240,000						
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 40,000						
% Complete (if underway):	16.7%						
Balance to be funded¹:	\$ 200,000						

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY									
CLASSIFICATION	ACCOUNT NUMBER	R AMOUN							
Labor:		\$	-						
Materials:		\$	-						
Other Contracts:	\$	200,000							
TOTAL PRO	\$	200,000							

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Per the 1999 NPDES Phase II Stormwater Quality Regulations, the City of Newark is required to meet approved standards to improve stormwater quality. According to our original plan submittal, we had planned the following: Install in-line storm sewer quality controls at McKees Park, Rahway Park, Handloff Park, and Yorkshire Woods I.

We received a surface water planning grant in 2014, part of which paid for a report to identify and rank water quality Best Management Practices (BMP) retrofits in stormwater basins around the City, which are better suited to retrofits than the original list above.

We chose not to complete a 2015 project due to uncertainty associated with impending changes to our permit which we have been provided a pre-publication draft. We have commented on the pre-publication draft and anticipate the Final Permit in 2019. In 2018, we are in process of purchasing an aeration system for an exiting pond that will increase the water quality leaving the site. We are planning on \$40,000 annually to help with permit compliance.

Depending on the type of facility constructed, ongoing maintenance will be required including mowing, invasive weed removal, inspections, etc. We have assumed \$5,000 per year per facility in maintenance costs.

	PROJECT FINANCING BY												
§ 806.1(3) SOURCE OF FUN	IDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estim Autho Balai 12/3:	orized nce ²	2019	2020	2021	2022	2023		OTAL ear CIP
CURRENT RESOURCES					\$	-		40,000	40,000	40,000	40,000	\$	160,000
CAPITAL RESERVES		80,000		40,000	\$ 4	40,000	40,000					\$	40,000
EQUIPMENT REPLACEMEN	Τ				\$	-						\$	-
GRANTS	(SPECIFY)				\$	-						\$	-
BOND ISSUES					\$	-						\$	-
STATE REVOLVING LOAN					\$	-						\$	-
OTHER	(SPECIFY)				\$	-						\$	-
TOTAL:		\$ 80,000	\$ -	\$ 40,000	\$ 4	40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$	200,000
§ 806.1(4) ESTIN	NATED ANNUAL COST O	-	OPE	RATING IMPAC	Г:		2019	2020	2021	2022	2023	TC	OTAL
OPERATING / MAIN	TAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET :	SAVINGS)						\$	-



QEQSF PROJECT NO:

Equipment Replacement Program PROJECT TITLE: Reoccurring (with no end date) **PROJECT STATUS:**

FUNDING SUMMARY:

NEW FUNDING: CARRYOVER FUNDING: \$

TOTAL FUNDING: \$

390,000

CAPITAL BUDGET - PROJECT DETAIL								
DEPARTMENT: Public Works & Water Resources								
DIVISION: Stormwater								
UND: Stormwater								
PROJECT LOCATION:	Various							
PROJECT PRIORITY:	1 - Highest Priority Level							
	underway and must be completed							
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:								
	Sustainable Community							

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	Perpetual
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	Various
Est. Total Cost:	\$ 623,000
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ 233,000
% Complete (if underway):	37.4%
Balance to be funded¹:	\$ 390,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY									
CLASSIFICATION		AMOUNT							
Labor:		\$	-						
Materials:		\$	-						
Other Contracts:	5595506.9623	\$	390,000						
TOTAL PROJECT COST \$ 390,000									

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

	PROJECT FINANCING BY PLAN									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Estimated Expenditures 03/31/18 - 12/31/18	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	153,625	16,511			18,755	\$ 188,891
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT	233,000		233,000	\$ -	161,375	13,489			26,245	\$ 201,109
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 233,000	\$ -	\$ 233,000	\$ -	\$ 315,000	\$ 30,000	\$ -	\$ -	\$ 45,000	\$ 390,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT MAINTENANCE FUND

CAPITAL IMPROVEMENT PROJECTS (2019 - 2023)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - MAINTENANCE FUND - FLEET MAINTENANCE DIVISION CAPITAL IMPROVEMENTS PROGRAM 2019-2023

		201	9							
Project Number	Project Name	2018 Budget	Reserves & Other Funding	Current Funding	2019	2020	2021	2022	2023	TOTAL
M1401	Truck Lift Systems Improvements	\$124,549	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MEQSF	Equipment Replacement Program	0	17,805	32,195	50,000	0	0	0	0	50,000
		\$124,549	\$17,805	\$32,195	\$50,000	\$0	\$0	\$0	\$0	\$50,000
	GROSS CAPITAL IMPROVEMENTS	\$124,549	\$17,805	\$32,195	\$50,000	\$0	\$0	\$0	\$0	\$50,000
	LESS: USE OF RESERVES	0	0	0	0	0	0	0	0	0
	VEHICLE/EQUIPMENT REPLACEMENT	0	(17,805)	0	(17,805)	0	0	0	0	(17,805)
	GRANTS	0	0	0	0	0	0	0	0	0
	BOND ISSUES	(124,549)	0	0	0	0	0	0	0	0
	OTHER FINANCING SOURCES	0	0	0	0	0	0	0	0	0
	NET CAPITAL IMPROVEMENTS	\$0	\$0	\$32,195	\$32,195	\$0	\$0	\$0	\$0	\$32,195



MEQSF PROJECT NO:

Equipment Replacement Program PROJECT TITLE: Reoccurring (with no end date) **PROJECT STATUS:**

FUNDING SUMMARY:

NEW FUNDING: CARRYOVER FUNDING: \$

50,000 TOTAL FUNDING: \$ 50,000

CAPITAL BUDGET - PROJECT DETAIL									
DEPARTMENT: Public Works & Water Resources									
DIVISION:	VISION: Fleet Maintenance								
FUND:	JND: Maintenance								
PROJECT LOCATION:	Various								
PROJECT PRIORITY:	1 - Highest Priority Level								
Project	underway and must be completed								
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:									
	Sustainable Community								

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	Perpetual
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	Various
Est. Total Cost:	\$ 50,000
Est. Spend @ 12/31/2018 (if underway) ¹ :	\$ -
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 50,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY									
CLASSIFICATION		AMOUNT							
Labor:		\$	-						
Materials:		\$	-						
Other Contracts:	\$	50,000							
TOTAL PRO	\$	50,000							

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please see the attached schedule.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/18	Expenditures	Estimated Authorized Balance ² 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES				\$ -	32,195					\$ 32,195
CAPITAL RESERVES				\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -	17,805					\$ 17,805
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN				\$ -						\$ -
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
§ 806.1(4) ESTIMATED ANNUAL COST ()F	OPE	RATING IMPACT	Г:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)						\$ -

APPENDICES

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

APPENDIX A - OBJECT CODES 7131 AND 8131 - (2018 & 2019 BUDGET COMPARISON)

REFUSE DIVISION

Code	2019 IT Annual Operating Expenses	201	8 Budget 20:	19 Budget	Over/Under	Description
8131	Verizon - Cellular/Data - Allocated	\$	600.00 \$	- \$	(600.00)	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription - Allocated	\$	- \$	347.22 \$	347.22	VOIP Phone System
	8131 Subtotal:	\$	600.00 \$	347.22 \$	(252.78)	
8131	Actual Budgeted Numbers	\$	600.00 \$	347.00	(253.00)	

STREET DIVISION

Code 2019 IT Annual Operating Expenses	20	18 Budget	20	19 Budget	(Over/Under	Description
8131 Tyler Technologies Munis Annual Maintenance - Allocated	\$	3,807.20	\$	4,371.77	\$	564.57	Computer Mobile Internet Connectivity
8131 Verizon - Cellular/Data - Allocated	\$	-	\$	500.00	\$	500.00	Computer Mobile Internet Connectivity
8131 VOIP Networks - Cloud9 VOIP Subscription - Allocated	\$	1,323.53	\$	347.22	\$	(976.31)	VOIP Phone System
8131 Subtotal:	\$	5,130.73	\$	5,218.99	\$	88.26	
8131 Actual Budgeted Numbers	\$	5,131.00	\$	5,219.00	\$	88.00	

ENGINEERING DIVISION

Codo	2019 IT Annual Operating Expenses	20	19 Rudget	20	19 Budget	_	Over/Under	Description
		Ż.	18 Buuget	Ž.			•	· · · · · · · · · · · · · · · · · · ·
8131	AutoTurn	\$	-	\$	2,610.00	\$	2,610.00	Engineering software to truck turn around design and planning
8131	Bluebeam Revu	\$	-	\$	300.00	\$	300.00	
8131	Esri Small Government ELA - Allocated	\$	2,500.00	\$	2,500.00	\$	-	GIS Server, Client, Cloud Licensing
8131	Hydrocad	\$	-	\$	600.00	\$	600.00	
8131	Tyler Technologies Munis Annual Maintenance - Allocated	\$	3,807.20	\$	4,371.77	\$	564.57	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131	Verizon - Cellular/Data - Allocated	\$	2,400.00	\$	3,400.00	\$	1,000.00	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription - Allocated	\$	6,176.47	\$	3,472.22	\$	(2,704.25)	VOIP Phone System
8131	Canon Financial - Copier Lease - Allocated	\$	-	\$	1,311.75	\$	1,311.75	Canon Copier Leases
8131	HP T2530PS - Plotter (48 month) - Allocated	\$	1,298.28	\$	1,298.28	\$	-	Wide Format Plotter and Scanner
	8131 Subtotal:	\$	16,181.95	\$	19,864.02	\$	3,682.07	
8131	Actual Budgeted Numbers	\$	16,182.00	\$	19,864.00	\$	3,682.00	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

APPENDIX A - OBJECT CODES 7131 AND 8131 - (2018 & 2019 BUDGET COMPARISON)

WATER DIVISION

Code 2019 IT Annual Operating Expenses	20	18 Budget	20	019 Budget	(Over/Under	Description
8131 AutoDesk (Civil 3D) - 3 licenses - Allocated	\$	2,222.23	\$	3,150.00	\$	927.77	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131 Comcast / Verizon South Chapel St South Well Field (SWF) \$105.15	\$	1,357.62	\$	1,357.62	\$	-	Internet Connection
8131 Crystal Reports Server Annual Maintenance - Allocated	\$	1,250.00	\$	1,500.00	\$	250.00	Report Generation Software (SCADA)
8131 Elster License Fee (SLA) Tropos Software Maintenance - Allocated	\$	17,500.00	\$	17,500.00	\$	-	Smart-Meter System (Wireless Infrastructure)
8131 Elster Software Maintenance - EAMS Allocated	\$	6,500.00	\$	6,500.00	\$	-	Smart-Meter System (Radio Infrastructure)
8131 Elster Upgrade - Allocated	\$	-	\$	10,500.00	\$	10,500.00	Smart-Meter System (Radio Infrastructure) - Required Upgrade
8131 Esri Small Government ELA - Allocated	\$	2,500.00	\$	2,500.00	\$	-	GIS Server, Client, Cloud Licensing
8131 Harris - Smartworks - Oracle Database Tuning - Allocated	\$	3,750.00	\$	4,100.00	\$	350.00	Smart Meter System - Proactive Oracle Database Maintenance
8131 Harris - Smartworks Software Maintenance - Allocated	\$	6,250.00	\$	6,375.00	\$	125.00	Smart-Meter System (Middleware)
8131 Harris - NorthStar Annual Maintenance - Allocated	\$	11,666.67	\$	12,300.00	\$	633.33	Utility Billing Software (including Smart-Meter System)
8131 Oracle Software Subscription Renewal (Not Harris) - Allocated	\$	1,250.00	\$	1,250.00	\$	-	Smart Meter - Oracle Database Software License
8131 Redhat Software Maintenance - Allocated	\$	-	\$	625.00	\$	625.00	Smart Meter - Linux Operating System for Servers
8131 Schneider Electric - Clearscada Development Software Maintenance	\$	600.00	\$	600.00	\$	-	Schneider Electric - Clearscada Development Software Maintenance
8131 Schneider Electric - ClearScada Annual Maintenance (ACS)	\$	2,000.00	\$	2,000.00	\$	-	ClearScada, Win911, Kepware
8131 Tyler Technologies Munis Annual Maintenance - Allocated	\$	2,588.89	\$	2,972.80	\$	383.91	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131 Verizon - Cellular/Data - Allocated	\$	6,600.00	\$	5,800.00	\$	(800.00)	Computer Mobile Internet Connectivity
8131 VOIP Networks - Cloud9 VOIP Subscription - Allocated	\$	-	\$	2,083.33	\$	2,083.33	VOIP Phone System
8131 Subtotal:	: \$	66,035.41	\$	81,113.75	\$	15,078.34	
8131 Actual Budgeted Numbers	\$	66,035.00	\$	81,114.00	\$	15,078.00	

SEWER DIVISION

Code 2019 IT Annual Operating Expenses	20	018 Budget	20	19 Budget	(Over/Under	Description
8131 AutoDesk (Civil 3D) - 3 licenses - Allocated	\$	2,222.23	\$	3,150.00	\$	927.77	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131 Elster License Fee (SLA) Tropos Software Maintenance - Allocated	\$	17,500.00	\$	17,500.00	\$	-	Smart-Meter System (Wireless Infrastructure)
8131 Elster Software Maintenance - EAMS Allocated	\$	6,500.00	\$	6,500.00	\$	-	Smart-Meter System (Radio Infrastructure)
8131 Elster Upgrade - Allocated	\$	-	\$	10,500.00	\$	10,500.00	Smart-Meter System (Radio Infrastructure) - Required Upgrade
8131 Esri Small Government ELA - Allocated	\$	2,500.00	\$	2,500.00	\$	-	GIS Server, Client, Cloud Licensing
8131 Harris - Smartworks - Oracle Database Tuning - Allocated	\$	3,750.00	\$	4,100.00	\$	350.00	Smart Meter System - Proactive Oracle Database Maintenance
8131 Harris - Smartworks Software Maintenance - Allocated	\$	6,250.00	\$	6,375.00	\$	125.00	Smart-Meter System (Middleware)
8131 Harris - NorthStar Annual Maintenance - Allocated	\$	11,666.67	\$	12,300.00	\$	633.33	Utility Billing Software (including Smart-Meter System)
8131 Oracle Software Subscription Renewal (Not Harris) - Allocated	\$	1,250.00	\$	1,250.00	\$	-	Smart Meter - Oracle Database Software License
8131 Redhat Software Maintenance - Allocated	\$	-	\$	625.00	\$	625.00	Smart Meter - Linux Operating System for Servers
8131 Tyler Technologies Munis Annual Maintenance - Allocated	\$	2,512.75	\$	2,885.37	\$	372.62	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131 Verizon - Cellular/Data - Allocated	\$	-	\$	3,400.00	\$	3,400.00	Computer Mobile Internet Connectivity
8131 Subtotal	: \$	54,151.65	\$	71,085.37	\$	16,933.72	
8131 Actual Budgeted Numbers	\$	54,152.00	\$	71,085.00	\$	16,934.00	

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

APPENDIX A - OBJECT CODES 7131 AND 8131 - (2018 & 2019 BUDGET COMPARISON)

STORMWATER DIVISION

Code	2019 IT Annual Operating Expenses	20	18 Budget	20	019 Budget	C	Over/Under	Description
8131	AutoDesk (Civil 3D) - 3 licenses - Allocated	\$	2,222.23	\$	3,150.00	\$	927.77	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131	Harris - NorthStar Annual Maintenance - Allocated	\$	11,666.67	\$	12,300.00	\$	633.33	Utility Billing Software (including Smart-Meter System)
8131	Tyler Technologies Munis Annual Maintenance - Allocated	\$	2,512.75	\$	2,885.37	\$	372.62	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131	Verizon - Cellular/Data - Allocated	\$	-	\$	1,000.00	\$	1,000.00	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription - Allocated	\$	-	\$	347.22	\$	347.22	VOIP Phone System
	8131 Subtotal	: \$	16,401.65	\$	19,682.59	\$	3,280.94	
8131	Actual Budgeted Numbers	\$	16,402.00	\$	19,683.00	\$	3,281.00	

FLEET MAINTENANCE DIVISION

Code	2019 IT Annual Operating Expenses	20	18 Budget 2	2019 Budg	et	Over/Under	Description
8131	Cummins Insite Lite Registration	\$	500.00 \$	500.0	00 \$	-	Large Truck Diagnostic Software
8131	Cummins Quick Serve	\$	450.00 \$	450.0	00 \$	-	Large Truck Diagnostic Software
8131	International Servicemaxx Fleet Pro Software	\$	650.00 \$	650.0	00 \$	-	Large Truck Diagnostic Software
8131	ShopKey Software Renewal	\$	3,200.00 \$	3,300.0	0 \$	100.00	ShopKey Vehicle Maintenance Software Renewal
8131	Snap On Modis Ultra Handheld Scanner Software	\$	1,145.00 \$	1,200.0	0 \$	55.00	Snap-On Vehicle Diagnostic Handheld Scanner Software
8131	VOIP Networks - Cloud9 VOIP Subscription - Allocated	\$	2,205.88 \$	1,041.6	7 \$	(1,164.21)	VOIP Phone System
	8131 Subtota	: \$	8,150.88 \$	7,141.6	57 \$	(1,009.21)	
8131	Actual Budgeted Numbers	\$	8,151.00	\$ 7,142.0	0 \$	(1,009.00)	

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT APPENDIX B - PART TIME HISTORY (2018-2019)

Position Descriptions	2018 Positions	2018 Budget	2019 Positions	2019 Budget	Position +/- Difference	\$ Change
Interns	5	\$ 32,500	5	\$ 32,500	0	\$ -
Clerk Typist	1	\$ 29,673	1	\$ 30,737	0	\$ 1,064
Seasonals	5	\$ 62,400	4	\$ 47,400	(1)	\$ (15,000)
Maintenance Worker (Stormwater)	1	\$ 30,867	1	\$ 31,208	0	\$ 341
	12	\$ 155,440	11	\$ 141,845	-1	\$ (13,595)

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT APPENDIX C - INFRASTRUCTURE REPLACEMENT SHEET

	Inventory ***	Service Life	Cost per Unit	Comment
Water Mains	140 Miles	100 years	\$1,200,000	Replace - restores full life
Sanitary Sewer Mains *****	95 Miles	100 years	\$700,000	Reline - restores 50-years
Streets (City) *****	65 Miles	17.5 years *	n/a	Per Pavement Management Plan
Storm Sewer (Concrete)	80 Miles	85 years	\$1,200,000	Replace - restores full life
Storm Sewer (Metal)	5.01875 Miles	15 years **	\$1,000,000	Replace with concrete or reline
Handicap Accessible Ramps	1689 Units	25 years	\$3,500	Replace non-compliant ramps

	Need per year ****	Cost per	2017 Budget	2017 Funding	2018 Budget	2018 Funding
	iveed per year	year	Funding	Gap	Funding	Gap
Water Mains	1.4 Miles	\$1,680,000	\$1,000,000	\$680,000	\$500,000	\$1,180,000
Sanitary Sewer Mains *****	0.95 Miles	\$665,000	\$500,000	\$165,000	\$700,000	(\$35,000)
Streets (City) *****	n/a Miles	\$1,750,000	\$1,515,000	\$235,000	\$1,865,000	(\$115,000)
Storm Sewer (Concrete)	0.94 Miles	\$1,128,000	\$0	\$1,128,000	\$0	\$1,128,000
Storm Sewer (Metal)	0.33 Miles	\$330,000	\$0	\$330,000	\$420,000	(\$90,000)
Handicap Accessible Ramps	67.56 Units	\$236,460	\$120,000	\$116,460	\$130,000	\$106,460
	Total:	\$5,553,000	\$3,135,000	\$2,418,000	\$3,615,000	\$1,938,000

^{* \$1,750,000} needed per year for the next 5 years to maintain the current average pavement condition per the 2016 Agile Assets Pavement Management Plan

*Please be advised that this document has not yet been updated for the 2019 Budget Process

^{**} Metal storm pipe has not been used in the City for many years. Traditionally I would apply a 25 year life for CMP but most is already severely deteriorated and in need of replacement

^{***} Inventory lengths reflect our best available current records. Road miles are the only survey grade values at this point and all others will change as we complete surveys

^{****} Replacement costs include structures like manholes, valves, catch basins, curbing, etc. in an effort to give a simple replacement value for an average street, main, etc.

^{***** 2017} Funding held at \$1,515,000 with the expectation that State CTF money will make up the difference to get to \$1,750,000 target

^{******} Sewer replacement cost includes \$200,000 per year of inspection and prioritization cost assuming inspection of entire sanitary sewer system on a 15-year cycle

CITY OF NEWARK, DELAWARE PUBLIC WORKS AND WATER RESOURCES DEPARTMENT DOCUMENT VERSION CONTROL

Date:	Version:	Description of Change(s):
8/31/18	1	Initial Submission (Version 1)