PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

2020

BUDGET PRESENTATION

TO CITY COUNCIL

SEPTEMBER 16, 2019

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

EXPENDITURE BUDGET

Object Level Detail:		FY2019 Appr'd		FY2020 Rec'd		FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages		*1,358,506*		*1,378,994*		*20,488*	*1.51%*	**Step increases and advancements*
Part-time Wages		*51,637*		*53,510*		*1,873*	*3.63%*	**Step increases and advancements*
Other Wages		*241,065*		*263,767*		*22,702*	*9.42%*	**Increase largely due to an increase of $16,700 for 6620 (Overtime) along with smaller increases to our Service Award, Sick Pay, and Shift Differential lines*
Benefits		*839,813*		*889,677*		*49,864*	*5.94%*	**City Pension, Defined Contribution, Group Hospitalization increases and OPEB.*
Personnel Services	$	2,491,021	$	2,585,948		94,927	3.81%	*Sum of above listed wages and benefits
Materials and Supplies	$	404,750	$	420,261		15,511	3.83%	*Increase of $15,000 is largely due to increases of $4,000 for 7130 (Tools|Small Equip.), $6,500 for 7270 (Station|Well Maint.) and $5,000 for 7330 (Water Meters)
Contractual Services	$	958,824	$	1,000,386		41,562	4.33%	*Increase largely due to a new line being added City-Wide in 2020, 8035 (Worker's Compensation) budgeted at $48,450
Debt Service	$	1,748,082	$	1,759,186		11,104	0.64%	*Finance Calculation
Depreciation	$	74,753	$	85,156		10,403	13.92%	*Finance Calculation
Other Expenditures	$	48,134	$	51,727		3,593	7.46%	*Increase of $3,593 is related to 9010 (Bad Debt Expense), this is a finance calculation
Subtotal:	**$**	**5,725,564**	**$**	**5,902,664**	**$**	**177,100**	**3.09%**	
Inter-Dept. Charges	$	582,288	$	624,661		42,373	7.28%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Printing and Reproduction, and Utility Billing
Total Operating Expenses:	**$**	**6,307,852**	**$**	**6,527,325**	**$**	**219,473**	**3.48%**	
Full-time Positions		21		21		0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
W2001	Newark Reservoir Upgrades	New Project
Ongoing projects		
W1901	Main Street Water Main	Projected to be completed by EOY 2019
W1701	Valve Inspection, Exercising and Rehabilitation	Project listed in 2019-2023 CIP
W1702	Source Water Protection	Perpetual Project
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	Projected to be completed by EOY 2019
W1302	Abandon Old Wells	Funding moved to Capital Project W1503
W0503	Well Restoration Program	Perpetual Project
W0002	Curtis WTP Alt. Disinfection and Facilities Upgrades	Projected to be completed by EOY 2019
W9302	Water SCADA System	Project listed in 2019-2023 CIP
W9308	Water Main Replacement Program	Perpetual Project
W8605	Water Tank Maintenance	Perpetual Project
WEQSF	Equipment Replacement Program	Perpetual Project

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

EXPENDITURE BUDGET

Object Level Detail:		FY2019 Appr'd		FY2020 Rec'd		FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages		*216,353*		*221,218*		*4,865*	*2.25%*	**Step increases and advancements*
Part-time Wages		*6,500*		*6,500*		*-*	*0.00%*	**No change from FY2019 to FY2020*
Other Wages		*21,225*		*23,518*		*2,293*	*10.80%*	**Increase largely due to an increase of $1,700 for 6620 (Overtime)*
Benefits		*112,514*		*114,649*		*2,135*	*1.90%*	**City Pension, Defined Contribution, Group Hospitalization increases and OPEB.*
Personnel Services	$	356,592	$	365,885		9,293	2.61%	*Sum of above listed wages and benefits
Utility Purchases	$	5,286,144	$	5,286,144		-	0.00%	*No change from FY2019 to FY2020, based off current trends
Materials and Supplies	$	29,000	$	28,261		(739)	-2.55%	*Decrease of $739 is largely due to an decrease of $2,000 for 7130 (Tools, Field Sup. & Small Equip.), and an increase of $1,261 for 7131 (IT Supplies)
Contractual Services	$	353,235	$	330,544		(22,691)	-6.42%	*Decrease of $22,691 is largely due to decrease of $25,000 for 8260 (Line Maintenance)
Depreciation	$	61,925	$	35,086		(26,839)	-43.34%	*Finance Calculation
Other Expenditures	$	6,892	$	8,590		1,698	24.64%	*Increase of $1,698 is related to 9010 (Bad Debt Expense), this is a finance calculation
Subtotal:	**$**	**6,093,788**	**$**	**6,054,510**	**$**	**(39,278)**	**-0.64%**	
Inter-Dept. Charges	$	293,615	$	329,417		35,802	12.19%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Mailroom and Postage, Printing and Reproduction, Records and Utility Billing
Total Operating Expenses:	**$**	**6,387,403**	**$**	**6,383,927**	**$**	**(3,476)**	**-0.05%**	
Full-time Positions		4		4		0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
N/A		No new projects planned in 2020-2024 CIP
Ongoing projects		
S0904	Sanitary Sewer Study and Repairs	Perpetual Project
SEQSF	Equipment Replacement Program	Perpetual Project

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

EXPENDITURE BUDGET

Object Level Detail:	FY2019 Appr'd	FY2020 Rec'd	FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages	*315,652*	*315,902*	*250*	*0.08%*	
Part-time Wages	*37,708*	*28,682*	*(9,026)*	*-23.94%*	**Decrease largely due to reduction of budgeted amount for Maintenance PT Street Sweeper*
Other Wages	*26,451*	*27,197*	*746*	*2.82%*	
Benefits	*247,771*	*246,264*	*(1,507)*	*-0.61%*	
Personnel Services	$ 627,582	$ 618,045	(9,537)	-1.52%	*Sum of above listed wages and benefits
Materials and Supplies	$ 26,100	$ 4,100	(22,000)	-84.29%	*Decrease of $22,000 is largely due to a decrease of $15,000 to 7400 (Storm Sewer Maint.) as well as a decrease of $8,000 to 7401 (Stormwater Program Supplies)
Contractual Services	$ 229,680	$ 256,912	27,232	11.86%	*Increase largely due to a new line being added City-Wide in 2020, 8035 (Worker's Compensation) budgeted at $16,150 as well as an increase of $15,000 to 8040 (Merchant Fees and Discounts)
Depreciation	$ 17,835	$ 52,283	34,448	193.15%	*Finance Calculation
Other Expenditures	$ 54,200	$ 54,800	600	1.11%	*Increase of $600 is due to additional funds needed for Standards Manual/Guidelines
Subtotal:	**$ 955,397**	**$ 986,140**	**$ 30,743**	**3.22%**	
Inter-Dept. Charges	$ 394,141	$ 446,228	52,087	13.22%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Printing and Reproduction, and Utility Billing.
Total Operating Expenses:	**$ 1,349,538**	**$ 1,432,368**	**$ 82,830**	**6.14%**	
Full-time Positions	5	5	0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
<u>New projects:</u>		
N/A		No new projects planned in 2020-2024 CIP
<u>Ongoing projects</u>		
Q1802		Project listed in 2019-2023 CIP
Q1301		Perpetual Project
Q0101		Perpetual Project
QEQSF		Perpetual Project

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

EXPENDITURE BUDGET

Object Level Detail:		FY2019 Appr'd		FY2020 Rec'd		FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages		*518,222*		*512,031*		*(6,191)*	*-1.19%*	**Staffing/Personnel changes at lower grades and steps than before.*
Part-time Wages		*-*		*6,000*		*6,000*	*#DIV/0!*	**Reallocation of Seasonal Staff budget within PWWR, $6,000 added to Refuse in 2020.*
Other Wages		*43,470*		*41,303*		*(2,167)*	*-4.99%*	**Decrease largely due to an decrease of $2,500 for 6620 (Overtime)*
Benefits		*396,578*		*435,668*		*39,090*	*9.86%*	**City Pension, Defined Contribution, Group Hospitalization increases and OPEB.*
Personnel Services	$	958,270	$	995,002		36,732	3.83%	*Sum of above listed wages and benefits
Materials and Supplies	$	27,700	$	30,200		2,500	9.03%	*Increased line 7132 (Collection Carts) $4,000 related to a Dumpster purchase
Contractual Services	$	892,019	$	924,669		32,650	3.66%	*Increase largely due to a new line being added City-Wide in 2020, 8035 (Worker's Compensation) budgeted at $25,500 as well as an increase of $6,000 to line item 8190 (Refuse Disposal - Landfill)
Depreciation	$	228,011	$	218,875		(9,136)	-4.01%	*Finance Calculation
Other Expenditures	$	750	$	750		-	0.00%	*No change from FY2019 to FY2020
Subtotal:	**$**	**2,106,750**	**$**	**2,169,496**	**$**	**62,746**	**2.98%**	
Inter-Dept. Charges	$	104,320	$	102,412		(1,908)	-1.83%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Mailroom and Postage, Printing and Reproduction, Records and Utility Billing
Total Operating Expenses:	**$**	**2,211,070**	**$**	**2,271,908**	**$**	**60,838**	**2.75%**	
Full-time Positions		9		9		0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
N/A		No new projects planned in 2020-2024 CIP
Ongoing projects		
REQSF	Equipment Replacement Program	Perpetual Project

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

EXPENDITURE BUDGET

Object Level Detail:		FY2019 Appr'd		FY2020 Rec'd		FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages		*398,021*		*407,087*		*9,066*	*2.28%*	**Staffing/Personnel changes as well as step increases and advancements*
Part-time Wages		*33,000*		*39,000*		*6,000*	*18.18%*	**Increased Seasonal budget by $6,000*
Other Wages		*55,311*		*56,352*		*1,041*	*1.88%*	**Increase of $1,041 due to Service Award and Sick Pay increases*
Benefits		*263,102*		*297,049*		*33,947*	*12.90%*	**City Pension, Defined Contribution, Group Hospitalization increases and OPEB.*
Personnel Services	$	749,434	$	799,488		50,054	6.68%	*Sum of above listed wages and benefits
Materials and Supplies	$	143,300	$	152,000		8,700	6.07%	*Increase largely due to $10,000 additional funds being budgeted for 7450 (Salt, Sand & Snow Removal)
Contractual Services	$	296,172	$	315,983		19,811	6.69%	*Increase largely due to a new line being added City-Wide in 2020, 8035 (Worker's Compensation) budgeted at $23,800 as well as an decrease of $6,059 to line item 8032 (Insurance - Auto). Both figures are provided by Finance
Depreciation	$	135,167	$	113,458		(21,709)	-16.06%	*Finance Calculation
Other Expenditures	$	2,500	$	2,500		-	0.00%	*No change from FY2019 to FY2020
Subtotal:	**$**	**1,326,573**	**$**	**1,383,429**	**$**	**56,856**	**4.29%**	
Inter-Dept. Charges	$	308,992	$	298,069		(10,923)	-3.54%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Mailroom and Postage, Printing and Reproduction, Records and Utility Billing
Total Operating Expenses:	**$**	**1,635,565**	**$**	**1,681,498**	**$**	**45,933**	**2.81%**	
Full-time Positions		7		7		0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
H2001	Annual Street Program	Perpetual Project
H2002	ADA Accessibility Transition Plan	New Project
Ongoing projects		
H1903	Skid Steer Purchase	Project listed in 2019-2023 CIP
H1503	Newark Transportation Plan Implementation	Project listed in 2019-2023 CIP
HEQSF	Equipment Replacement Program	Perpetual Project

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

EXPENDITURE BUDGET

Object Level Detail:		FY2019 Appr'd		FY2020 Rec'd		FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages		*515,353*		*530,437*		*15,084*	*2.93%*	**Step increases and advancements*
Part-time Wages		*13,000*		*13,000*		*-*	*0.00%*	**No change from FY2019 to FY2020*
Other Wages		*31,150*		*32,039*		*889*	*2.85%*	**Increase of $889 due to Service Award and Sick Pay increases*
Benefits		*292,966*		*318,319*		*25,353*	*8.65%*	**City Pension, Defined Contribution, Group Hospitalization increases and OPEB.*
Personnel Services	$	852,469	$	893,795		41,326	4.85%	*Sum of above listed wages and benefits
Materials and Supplies	$	7,500	$	7,200		(300)	-4.00%	*Small decrease to supplies
Contractual Services	$	117,498	$	141,579		24,081	20.49%	*Increase largely due to a new line being added City-Wide in 2020, 8035 (Worker's Compensation) budgeted at $23,800
Depreciation	$	15,168	$	11,083		(4,085)	-26.93%	*Finance Calculation
Other Expenditures	$	9,000	$	9,000		-	0.00%	*No change from FY2019 to FY2020
Subtotal:	**$**	**1,001,635**	**$**	**1,062,657**	**$**	**61,022**	**6.09%**	
Inter-Dept. Charges	$	47,383	$	45,312		(2,071)	-4.37%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Mailroom and Postage, Printing and Reproduction, Records and Utility Billing
Total Operating Expenses:	**$**	**1,049,018**	**$**	**1,107,969**	**$**	**58,951**	**5.62%**	
Full-time Positions		8		8		0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
N/A		No new projects planned in 2020-2024 CIP
Ongoing projects		
TEQSF	Equipment Replacement Program	Perpetual Project

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

EXPENDITURE BUDGET

Object Level Detail:		FY2019 Appr'd		FY2020 Rec'd		FY2019 App'd vs. FY2020 Rec'd	% +/- over FY2019 Appr'd	Comments
Full-time Wages		*279,376*		*287,835*		*8,459*	*3.03%*	**Step increases and advancements*
Other Wages		*47,425*		*44,888*		*(2,537)*	*-5.35%*	**Decrease largely due to an decrease of $4,000 for 6620 (Overtime)*
Benefits		*161,738*		*185,730*		*23,992*	*14.83%*	**City Pension, Defined Contribution, Group Hospitalization increases and OPEB.*
Personnel Services	$	488,539	$	518,453		29,914	6.12%	*Sum of above listed wages and benefits
Materials and Supplies	$	606,000	$	586,150		(19,850)	-3.28%	*Decrease largely due to reduction of $20,000 for 7070 (Gasoline, Oil, Coolant, Etc.)
Contractual Services	$	254,758	$	279,710		24,952	9.79%	*Increase largely due to a new line being added City-Wide in 2020, 8035 (Worker's Compensation) budgeted at $14,450
Depreciation	$	40,791	$	28,617		(12,174)	-29.84%	*Finance Calculation
Other Expenditures	$	2,700	$	2,700		-	0.00%	*No change from FY2019 to FY2020
Subtotal:	**$**	**1,392,788**	**$**	**1,415,630**	**$**	**22,842**	**1.64%**	
Inter-Dept. Charges	$	59,372	$	57,292		(2,080)	-3.50%	Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Printing and Reproduction, and Utility Billing
Total Operating Expenses:	**$**	**1,452,160**	**$**	**1,472,922**	**$**	**20,762**	**1.43%**	
Full-time Positions		4		4		0		No change in FTE from FY2019 to FY2020

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
N/A		No new projects planned in 2020-2024 CIP
Ongoing projects		
MEQSF	Equipment Replacement Program	Perpetual Project

THIS PAGE IS LEFT INTENTIONALLY BLANK

Table of Contents

Department Organizational Chart **1**

Department Narrative **2-3**

Department 2019 Accomplishments **4**

Department 2020 Goals **5**

General Operating Budget - Water Fund - Water Division **6**

Summary 7

Personnel Services 8

Position Detail 9

Materials and Supplies 10

Contractual Services 11

Other Charges | Inter-Dept. Charges | Department Totals 12

Capital Improvements Program (2020-2024) - Water Fund - Water Division **14**

2020-2024 CIP Summary 15

W2001 16

W1701 17

W1702 18

W1703 19

W1601 20

W1602 21

W1503 22

W1402 23

W0503 24

W9302 25

W9308 26

W9308 (Supporting Documentation #1) 27

W9308 (Supporting Documentation #2) 28

W8605 29

WEQSF 30

WEQSF (Supporting Documentation) 31

General Operating Budget - Sewer Fund - Sewer Division **32**

Summary 33

Table of Contents

Personnel Services 34

Position Detail 35

Materials and Supplies | Contractual Services 36

Other Charges | Inter-Dept. Charges | Department Totals 37

Capital Improvements Program (2020-2024) - Sewer Fund - Sewer Division 38

2020-2024 CIP Summary 39

S0904 40

S0904 (Supporting Documentation #1) 41

S0904 (Supporting Documentation #2) 42

SEQSF 44

SEQSF (Supporting Documentation) 45

General Operating Budget - Stormwater Fund - Stormwater Division 46

Summary 47

Personnel Services 48

Position Detail 49

Materials and Supplies | Contractual Services 50

Other Charges | Inter-Dept. Charges | Department Totals 51

Capital Improvements Program (2020-2024) - Stormwater Fund - Stormwater Division 52

2020-2024 CIP Summary 53

Q1802 54

Q1301 55

Q1301 (Supporting Documentation #1) 56

Q1301 (Supporting Documentation #2) 57

Q1301 (Supporting Documentation #3) 58

Q1301 (Supporting Documentation #4) 59

Q1301 (Supporting Documentation #5) 60

Q0101 61

QEQSF 62

QEQSF (Supporting Documentation) 63

Table of Contents

General Operating Budget - General Fund - Refuse Division 64
Summary 65
Personnel Services 66
Position Detail 67
Materials and Supplies | Contractual Services 68
Other Charges | Inter-Dept. Charges | Department Totals 69
General Operating Budget - General Fund - Street Division 70
Summary 71
Personnel Services 72
Position Detail 73
Materials and Supplies | Contractual Services 74
Other Charges | Inter-Dept. Charges | Department Totals 75
General Operating Budget - General Fund - Engineering Division 76
Summary 77
Personnel Services 78
Position Detail 79
Materials and Supplies | Contractual Services 80
Other Charges | Inter-Dept. Charges | Department Totals 81
Capital Improvements Program (2020-2024) - General Fund - Refuse, Street and Engineering Divisions 82
2020-2024 CIP Summary 83
REQSF 84
REQSF (Supporting Documentation) 85
H2001 86
H2002 87
H1903 88
H1503 89
HEQSF 90
HEQSF (Supporting Documentation) 91
TEQSF 92
TEQSF (Supporting Documentation) 93

Table of Contents

General Operating Budget - Maintenance Fund - Fleet Maintenance Division....94

Summary 95

Personnel Services 96

Position Detail 97

Materials and Supplies | Contractual Services 98

Other Charges | Inter-Dept. Charges | Department Totals 99

Capital Improvements Program (2020-2024) - Maintenance Fund - Fleet Maintenance Division 100

2020-2024 CIP Summary 101

MEQSF 102

MEQSF (Supporting Documentation) 103

Appendices 104

Appendix A: 7131 and 8131 - Information Technology Detail - Water Division 105

Appendix A: 7131 and 8131 - Information Technology Detail - Sewer Division 106

Appendix A: 8131 - Information Technology Detail - Stormwater Division 107

Appendix A: 8131 - Information Technology Detail - Refuse Division 108

Appendix A: 8131 - Information Technology Detail - Street Division 109

Appendix A: 8131 - Information Technology Detail - Engineering Division 110

Appendix A: 8131 - Information Technology Detail - Fleet Maintenance Division 111

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

DIRECTOR OF PUBLIC WORKS AND WATER RESOURCES

WATER PRODUCTION
- Well Operations
- Water Plant Operations
- Booster Stations
- Tank Maintenance
- Reservoir
- Water System Regulatory Compliance
- Sewer System Regulatory Compliance
- Water System Capital Project Administration
- SCADA, GIS Mapping and Asset Management
- Metering

ENGINEERING
- Project Inspection
- Plan Review
- NPDES
- Surveying
- Drafting
- Capital Project Management
- Sediment and Stormwater Program
- Inspections

WATER RESOURCES
- Light Construction
- Emergency Repairs
- Valve Maintenance
- Sanitary Sewer Maintenance
- Hydrant Inspection and Maintenance
- Meter Installation and Repair
- Storm Sewers
- Street Sweeping
- Storm System Maintenance
- Sewer Capital Administration
- Stormwater Capital Administration
- Customer Service
- Purchasing

STREET MAINTENANCE
- Pavement
- Sign and Traffic Marking Maintenance
- Tank Maintenance
- Snow Plowing
- Leaf Collection
- Sidewalk Sweeping
- Catch Basin Cleaning

REFUSE COLLECTION
- Refuse Collection
- Recycling Collection
- Yard Waste Collection
- Yard Waste Processing

VEHICLE MAINTENANCE
- Vehicle Specification and Preparation
- Fleet and Equipment Maintenance

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
2020 DEPARTMENTAL 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
2019 DEPARTMENTAL ACCOMPLISHMENTS

Key accomplishments in 2019 include:

- Completed a major upgrade to the Curtis Water Treatment Plant, including the conversion from Gaseous Chlorine to Bulk Sodium Hypochlorite for disinfection.
- Prepared Plans and Specifications for bidding on the South Well Field Water Treatment Plant upgrade including a new finished water tank and air stripper building required to treat the contamination in the groundwater feeding the treatment plant.
- Prepared plans and specifications for the upgrade of 2,600 linear feet of water main.
- Lined or replaced 1,100 linear feet of degraded corrugated metal pipe (CMP) as part of the stormwater utility.
- Reviewed and approved 42 plan submissions for new development or new construction.
- Lined 5,100 linear feet of sanitary sewer pipe.
- Replaced 15 fire hydrants and tees and added 14 new gate valves to assist in future maintenance of the busy downtown area.
- Completed the Environmental Remediation and started the demolition at the Rodney Dorm site.
- Utilized our in-house staff in order to complete update to the City's Water and Wastewater Standards and Specifications including generation of new construction details.

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
2020 DEPARTMENTAL GOALS

Goals for 2020 include:

- We expect to have the final version of our NPDES MS4 stormwater permit in late 2019. 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.
- Perform an audit of our water meter systems and reporting.
- Utilize our in-house staff in order to complete the update the City's Road Construction and Utility Standards and Specifications for Construction, last updated in 2001.
- Create Standard Operating Procedures for each Division within the Department.
- Complete the rehabilitation at the South Well Field Water Treatment Plant.
- Complete the construction of the park and stormwater pond at 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.
- Continue to assess environmental compliance at all City Owned facilities.
- Utilize grant funding to provide backup generation at a remote well site in Delmarva territory.
- Complete the initial SCADA programming on all water and sewer facilities in our system.
- Work with DelDOT to implement pedestrian and bicycle improvements to Casho Mill Road as part of the Safe Routes to School Program.
- Work with DelDOT on the completion of the Main Street Improvements
- Partner with DelDOT and New Castle County to restore floodplain storage and water quality in a shared drainage area near Robscott Manor.
- Engage in sewer agreement discussions with New Castle County.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

WATER DIVISION

GENERAL OPERATING BUDGET

Water Fund - Public Works and Water Resources Department - Water Division

Summary:

WATER DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
REVENUES						
Sale of Water	$ 9,299,681	$ 9,200,000	$ 9,616,300	$ 9,616,300	$ -	0.0%
Penalties	26,621	35,000	31,200	29,100	(2,100)	-6.7%
Service Fees	40,524	32,471	33,100	35,200	2,100	6.3%
Other Revenues	224,195	207,045	133,400	164,990	31,590	23.7%
Interest Revenue	28,987	30,000	30,200	31,000	800	2.6%
Subtotal	$ 9,620,008	$ 9,504,516	$ 9,844,200	$ 9,876,590	$ 32,390	0.3%
Less: Water Purchased	N/A	N/A	N/A	N/A	N/A	N/A
Gross Operating Revenue	$ 9,620,008	$ 9,504,516	$ 9,844,200	$ 9,876,590	$ 32,390	0.3%
OPERATING EXPENSES						
Personnel Services	$ 2,359,205	$ 2,124,854	$ 2,491,021	$ 2,585,948	$ 94,927	3.8%
Utility Purchases	-	-	-	-	-	0.0%
Materials & Supplies	331,613	319,958	404,750	420,261	15,511	3.8%
Contractual Services	699,245	939,681	958,824	1,000,386	41,562	4.3%
Other Charges	1,855,298	1,856,771	1,870,969	1,896,069	25,100	1.3%
Subtotal	$ 5,245,361	$ 5,241,264	$ 5,725,564	$ 5,902,664	$ 177,100	3.1%
Inter-Dept. Charges	797,994	554,335	582,288	624,661	42,373	7.3%
Total Operating Expenses	$ 6,043,355	$ 5,795,599	$ 6,307,852	$ 6,527,325	$ 219,473	3.5%
Net Operating Margin (Before Capital Costs)	**$ 3,576,653**	**$ 3,708,917**	**$ 3,536,348**	**$ 3,349,265**	**$ (187,083)**	**-5.3%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Water Fund - Public Works and Water Resources Department - Water Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5295202	6020	Supervisory	$ 361,039	$ 381,809	$ 388,498	$ 387,153	$ (1,345)	-0.3%
5295202	6030	Engineering/Technical (1)	2,747	853	-	-	-	0.0%
5295202	6050	Information Technology	-	-	55,040	58,377	3,337	6.1%
5295202	6080	Clerical	82,006	83,291	89,472	93,611	4,139	4.6%
5295202	6200	Line Maintenance	416,772	385,101	429,968	436,569	6,601	1.5%
5295202	6210	Inspectors (2)	99,470	57,703	60,947	64,643	3,696	6.1%
5295202	6220	Plant Operators	279,200	288,853	299,293	305,221	5,928	2.0%
5295202	6230	Maintenance Workers	30,601	65,230	66,025	66,030	5	0.0%
5295202	6240	Sweeper Operator	2,058	-	-	-	-	0.0%
5295202	6580	Service Award	20,465	22,944	24,159	26,102	1,943	8.0%
5295202	6590	Sick Pay	7,002	7,355	13,845	15,352	1,507	10.9%
5295202	6610	Seasonal	11,018	10,652	14,400	14,400	-	0.0%
5295202	6615	Interns	5,122	5,077	6,500	6,500	-	0.0%
5295202	6620	Overtime	156,324	173,272	168,300	185,000	16,700	9.9%
5295202	6621	Shift Differential	5,733	5,812	3,120	5,800	2,680	85.9%
5295202	6622	Holiday Premium	14,166	15,302	16,728	16,000	(728)	-4.4%
5295202	6623	Weekend Premium	2,339	3,497	2,193	2,193	-	0.0%
5295202	6880	Uniform Allowance	7,925	7,570	7,920	7,920	-	0.0%
5295202	6885	Device Reimbursement	-	4,625	4,800	5,400	600	12.5%
5295202	6920	Unemployment Comp. Ins.	7,449	5,749	5,544	6,491	947	17.1%
5295202	6930	Social Security Taxes	113,247	110,462	118,946	123,404	4,458	3.7%
5295202	6940	City Pension Plan	308,246	318,589	282,340	301,725	19,385	6.9%
5295202	6941	Defined Contribution 401(a) Plan	19,752	24,965	33,057	42,975	9,918	30.0%
5295202	6950	Term Life Insurance	5,235	5,533	6,090	6,197	107	1.8%
5295202	6960	Group Hospitalization Ins.	255,770	254,522	296,814	304,566	7,752	2.6%
5295202	6961	Long-Term Disability Ins.	2,063	2,191	2,413	3,135	722	29.9%
5295202	6962	Dental Insurance	16,009	14,287	16,497	16,734	237	1.4%
5295202	6963	Flexible Spending Account	194	189	189	189	-	0.0%
5295202	6964	Health Savings Account	1,500	1,500	1,500	1,500	-	0.0%
5295202	6965	Post-Employment Benefits	115,433	(142,700)	62,760	67,503	4,743	7.6%
5295202	6966	Retirement Health Savings Account	5,071	6,977	9,800	11,368	1,568	16.0%
5295202	6967	Emergency Room Reimbursements	4,347	2,775	2,900	2,900	-	0.0%
5295202	6968	Vision Insurance Premiums	902	869	963	990	27	2.8%
TOTAL PERSONNEL SERVICES			**$ 2,359,205**	**$ 2,124,854**	**$ 2,491,021**	**$ 2,585,948**	**$ 94,927**	**3.8%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
WATER DIVISION

Title	Union Affiliation	Grade	2019 # of Positions	2019 Approved	2020 # of Positions	2020 Requested	Position Difference	$ Difference	% Change
FULL TIME POSITIONS									
Director of PWWR	MGMT	33	1.0	$ 125,050	1.0	$ 121,469	0.0	$ (3,581)	-2.9%
Deputy Director of PWWR	MGMT	29	1.0	$ 99,395	1.0	$ 97,954	0.0	$ (1,441)	-1.4%
Water Operations Superintendent	MGMT	22	1.0	$ 86,346	1.0	$ 88,264	0.0	$ 1,918	2.2%
PWWR Supervisor	MGMT	19	1.0	$ 77,707	1.0	$ 79,466	0.0	$ 1,759	2.3%
Water and Sewer Inspector	CWA F/T	16	1.0	$ 60,947	1.0	$ 64,643	0.0	$ 3,696	6.1%
Senior Water Plant OP	AFSCME LOCAL 3919 F/T	16	1.0	$ 82,764	1.0	$ 84,386	0.0	$ 1,622	2.0%
GIS Technician **	CWA F/T	14	1.0	$ 55,040	1.0	$ 58,377	0.0	$ 3,337	6.1%
Water Plant Operator	AFSCME LOCAL 3919 F/T	14	3.0	$ 216,529	3.0	$ 220,835	0.0	$ 4,306	2.0%
Water Meter Technician	AFSCME LOCAL 1670 F/T	10	1.0	$ 66,726	1.0	$ 66,731	0.0	$ 5	0.0%
Heavy Equipment Op/Mech	AFSCME LOCAL 1670 F/T	10	1.0	$ 66,025	1.0	$ 66,030	0.0	$ 5	0.0%
Admin Professional I	CWA F/T	10	1.0	$ 58,735	1.0	$ 61,001	0.0	$ 2,266	3.9%
Digital Scanner/Record Asst II	CWA F/T	8	1.0	$ 54,455	1.0	$ 57,249	0.0	$ 2,794	5.1%
Maintenance IV	AFSCME LOCAL 1670 F/T	8	1.0	$ 61,210	1.0	$ 61,215	0.0	$ 5	0.0%
Maintenance III	AFSCME LOCAL 1670 F/T	6	1.0	$ 54,718	1.0	$ 55,246	0.0	$ 528	1.0%
Equipment Operator *	AFSCME LOCAL 1670 F/T	3	3.0	$ 105,655	4.0	$ 152,697	1.0	$ 47,042	44.5%
Maintenance I	AFSCME LOCAL 1670 F/T	1	2.0	$ 87,204	1.0	$ 43,431	(1.0)	$ (43,773)	-50.2%
Total Full-Time Positions			21.0	**$ 1,358,506**	21.0	**$ 1,378,994**	0.0	**$ 20,488**	**1.5%**
PART-TIME FUNDING									
Clerk Typist	CWA P/T			$ 30,737		$ 32,610		$ 1,873	6.1%
Seasonal				$ 14,400		$ 14,400		$ -	0.0%
Intern				$ 6,500		$ 6,500		$ -	0.0%
Total Part-Time Funding				**$ 51,637**		**$ 53,510**		**$ 1,873**	**3.6%**
OTHER									
Service Award				$ 24,159		$ 26,102		$ 1,943	8.0%
Sick Pay				$ 13,845		$ 15,352		$ 1,507	10.9%
Overtime				$ 168,300		$ 185,000		$ 16,700	9.9%
Shift Differential				$ 3,120		$ 5,800		$ 2,680	85.9%
Holiday Premium				$ 16,728		$ 16,000		$ (728)	-4.4%
Weekend Premium				$ 2,193		$ 2,193		$ -	0.0%
Uniform Allowance				$ 7,920		$ 7,920		$ -	0.0%
Device Reimbursements				$ 4,800		$ 5,400		$ 600	12.5%
Total Other				**$ 241,065**		**$ 263,767**		**$ 22,702**	**9.4%**
Total All			**21.0**	**$ 1,651,208**	**21.0**	**$ 1,696,271**	**0.0**	**$ 45,063**	**2.7%**

* 2019 and 2020 total funding for Equipment Operator postions includes 1 FTE that is currently unfunded.
** In 2019, GIS Technician was realigned from the Information Technology Division to the Water Division.

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Water Fund - Public Works and Water Resources Department - Water Division

Expenditures:

MATERIALS AND SUPPLIES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5295203	7080	Pumping Station Electric	$ 33,948	$ 30,585	$ 40,000	$ 40,000	$ -	0.0%
5295203	7090	Treatment Plant Chemicals	101,900	110,796	153,500	150,000	(3,500)	-2.3%
5295203	7110	Safety Shoes and Supplies	7,401	7,220	6,000	7,500	1,500	25.0%
5295203	7130	Tools, Field Sup., & Small Eq.	13,432	14,604	10,000	14,000	4,000	40.0%
5295203	7131	Information Technology Supplies	-	-	-	1,261	1,261	100.0%
5295203	7140	Uniforms	-	58	-	-	-	0.0%
5295203	7150	Office Supplies	3,427	4,981	3,250	4,000	750	23.1%
5295203	7260	Line Maintenance	108,918	85,119	110,000	110,000	-	0.0%
5295203	7270	Station and Well Maintenance	2,212	1,834	3,500	10,000	6,500	185.7%
5295203	7275	Reservoir Maintenance	4,428	8,170	7,500	7,500	-	0.0%
5295203	7280	Treatment Plant Maintenance	4,932	15,616	35,000	35,000	-	0.0%
5295203	7320	Well Maintenance	673	11,088	-	-	-	0.0%
5295203	7330	Water Meters	49,450	39,172	35,000	40,000	5,000	14.3%
5295203	7440	Conservation Program	-	-	1,000	1,000	-	0.0%
5295203	7540	Inventory Adjustment	817	(9,285)	-	-	-	0.0%
5295203	7550	Miscellaneous Supplies	75	-	-	-	-	0.0%
TOTAL MATERIALS & SUPPLIES			**$ 331,613**	**$ 319,958**	**$ 404,750**	**$ 420,261**	**$ 15,511**	**3.8%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Water Fund - Public Works and Water Resources Department - Water Division

Expenditures:

CONTRACTUAL SERVICES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5295204	8020 Advertising	$ 2,203	$ 8,154	$ 3,500	$ 2,000	$ (1,500)	-42.9%
5295204	8030 Casualty Insurance	23,665	25,148	28,320	26,400	(1,920)	-6.8%
5295204	8031 Insurance - Property	56,896	90,456	83,140	85,120	1,980	2.4%
5295204	8032 Insurance - Auto	13,918	26,793	27,165	17,940	(9,225)	-34.0%
5295204	8033 Insurance - Broker	9,561	12,681	12,880	12,864	(16)	-0.1%
5295204	8035 Insurance - Worker's Compensation	-	-	-	48,450	48,450	100.0%
5295204	8040 Merchant Fees and Discounts	103,232	102,842	100,000	100,000	-	0.0%
5295204	8050 Phone/Communications	9,937	3,277	5,200	480	(4,720)	-90.8%
5295204	8120 Outside Engineering (1)	65,186	37,953	115,000	115,000	-	0.0%
5295204	8130 Building & Equipment Rental	2,236	4,382	3,500	3,500	-	0.0%
5295204	8131 Information Technology Cont'l	68,642	44,836	81,114	82,586	1,472	1.8%
5295204	8150 Water Service Contracts	53,075	73,061	76,000	85,000	9,000	11.8%
5295204	8260 Line Maintenance	8,205	42,213	65,000	50,000	(15,000)	-23.1%
5295204	8270 Station Maintenance	7,135	6,488	7,500	7,500	-	0.0%
5295204	8275 Reservoir Maintenance	14,707	24,673	30,000	30,000	-	0.0%
5295204	8280 Treatment Plant Maintenance	72,617	82,964	83,000	90,000	7,000	8.4%
5295204	8312 Fleet & Facilities Services	145,354	319,113	171,505	176,546	5,041	2.9%
5295204	8320 Well Maintenance	15,750	3,857	20,000	20,000	-	0.0%
5295204	8325 Tank Cleaning and Inspection	6,400	2,500	10,000	10,000	-	0.0%
5295204	8330 Meter Testing and Repairs	237	204	5,000	5,000	-	0.0%
5295204	8440 Conservation Program	-	-	1,000	-	(1,000)	-100.0%
5295204	8550 Misc. Contracted Services	5,919	6,456	10,000	10,000	-	0.0%
5295204	8899 Mowing Contract	14,370	21,630	20,000	22,000	2,000	10.0%
TOTAL CONTRACTUAL SERVICES		**$ 699,245**	**$ 939,681**	**$ 958,824**	**$ 1,000,386**	**$ 41,562**	**4.3%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Water Fund - Public Works and Water Resources Department - Water Division

Expenditures:

OTHER CHARGES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5295205	9002 Subvention - Aetna Hook and Ladder	$ -	$ -	$ 3,300	$ 3,300	$ -	0.0%
5295205	9010 Bad Debt Expense	389	25,696	1,791	5,384	3,593	200.6%
5295205	9020 Mileage & Small Bus. Expense	4,638	4	-	-	-	0.0%
5295205	9051 Debt Service Principal	1,070,000	1,095,000	1,140,000	1,185,000	45,000	3.9%
5295205	9052 Debt Service Interest	192,908	168,169	144,900	110,700	(34,200)	-23.6%
5295205	9054 Amortization of Refinance Loss	34,443	34,443	34,443	34,443	-	0.0%
5295205	9056 Debt Service Principal-Smart Meters	334,940	342,320	349,851	357,851	8,000	2.3%
5295205	9057 Debt Service Interest-Smart Meters	90,587	83,221	75,690	67,994	(7,696)	-10.2%
5295205	9058 Debt Service Principal-ECM	33,832	34,510	35,202	35,908	706	2.0%
5295205	9059 Debt Service Interest-ECM	3,809	3,131	2,439	1,733	(706)	-28.9%
5295205	9060 Depreciation Expense	84,619	67,041	74,753	85,156	10,403	13.9%
5295205	9070 Training & Continuing Educ/Conf	5,133	3,236	8,600	8,600	-	0.0%
TOTAL OTHER CHARGES		**$ 1,855,298**	**$ 1,856,771**	**$ 1,870,969**	**$ 1,896,069**	**$ 25,100**	**1.3%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Administrative Overhead	$ 489,945	$ 362,695	$ 371,258	$ 396,261	$ 25,003	6.7%
Billings and Accounting	130,505	63,628	78,817	88,798	9,981	12.7%
Electricity	201,211	208,527	193,282	177,828	(15,454)	-8.0%
Information Technology	83,848	86,381	68,930	90,296	21,366	31.0%
Other Indirect Charges	(130,442)	(196,649)	(147,214)	(147,214)	-	0.0%
Printing and Reproduction	108	100	146	146	-	0.0%
Warehousing	22,819	29,653	17,069	18,546	1,477	8.7%
TOTAL INTER-DEPT. CHARGES	**$ 797,994**	**$ 554,335**	**$ 582,288**	**$ 624,661**	**$ 42,373**	**7.3%**

OPERATING EXPENSES - WATER DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 6,043,355**	**$ 5,795,599**	**$ 6,307,852**	**$ 6,527,325**	**$ 219,473**	**3.5%**

THIS PAGE IS LEFT INTENTIONALLY BLANK

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

WATER DIVISION

CAPITAL IMPROVEMENTS PROGRAM

CITY OF NEWARK, DELAWARE
CAPITAL IMPROVEMENTS PROGRAM 2020-2024
(with current year amended budget)

WATER FUND - PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - WATER DIVISION

F U N D I N G   S U M M A R Y

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 1,315,906	$ 2,314,000	$ 4,249,000	$ 1,579,000	$ 3,025,000	$ 12,482,906
*Prior Authorized Balance:	$ 1,147,094	$ 250,000	$ -	$ -	$ -	$ 1,397,094
2020-2024 Funding:	$ 2,463,000	$ 2,564,000	$ 4,249,000	$ 1,579,000	$ 3,025,000	$ 13,880,000

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NUMBER	PROJECT NAME	*	2019 BUDGET AS AMENDED	2020 RESERVES AND OTHER FUNDING	2020 CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
W2001	Newark Reservoir Upgrades	B	$ -	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ 1,500,000	$ 1,600,000
W1901	Main Street Water Main	B	331,155	-	-	-	-	-	-	-	-
W1701	Valve Inspection, Exercising and Rehabilitation	B	165,000	-	125,000	125,000	125,000	125,000	125,000	-	500,000
W1702	Source Water Protection	A	20,000	-	20,000	20,000	20,000	20,000	25,000	25,000	110,000
W1703	Laird Tract Well Field Restoration	A	-	-	-	-	100,000	1,925,000	-	-	2,025,000
W1601	Backup Generation at Water Facilities	A	70,000	75,000	50,000	125,000	-	-	-	-	125,000
W1602	Roseville Park Pressure District	B	-	-	25,000	25,000	250,000	-	-	-	275,000
W1503	Academy Street Interconnection Pump Station	B	-	-	-	-	90,000	500,000	-	-	590,000
W1402	Air Stripper Replacement - South Well Field	B	3,000,000	-	-	-	-	-	-	-	-
W1302	Abandon Old Wells	B	5,000	-	-	-	-	-	-	-	-
W0503	Well Restoration Program	B	28,000	-	58,000	58,000	29,000	29,000	29,000	-	145,000
W0002	Curtis WTP Alt. Disinfection and Facilities Upgrades	B	25,000	-	-	-	-	-	-	-	-
W9302	Water SCADA System	B	200,000	350,000	-	350,000	-	-	-	-	350,000
W9308	Water Main Replacement Program	B	1,000,000	1,000,000	-	1,000,000	1,000,000	1,000,000	1,250,000	1,500,000	5,750,000
W8605	Water Tank Maintenance	B	361,000	450,000	-	450,000	850,000	600,000	-	-	1,900,000
WEQSF	Equipment Replacement Program	B	124,000	213,546	96,454	310,000	100,000	50,000	50,000	-	510,000
	Total Water Fund - Water Division		$ 5,329,155	$ 2,088,546	$ 374,454	$ 2,463,000	$ 2,564,000	$ 4,249,000	$ 1,579,000	$ 3,025,000	$ 13,880,000

PLANNED FINANCING SOURCES	2019 BUDGET AS AMENDED	2020 RESERVES AND OTHER FUNDING	2020 CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
GROSS CAPITAL IMPROVEMENTS	$ 5,329,155	$ 2,088,546	$ 374,454	$ 2,463,000	$ 2,564,000	$ 4,249,000	$ 1,579,000	$ 3,025,000	$ 13,880,000
LESS: USE OF RESERVES	(210,155)	-	-	-	-	-	-	-	-
VEHICLE & EQUIPMENT REPLACEMENT	(85,376)	(213,546)	-	(213,546)	(59,447)	(37,999)	(19,541)	-	(330,533)
GRANTS	(70,000)	(75,000)	-	(75,000)	(50,000)	-	(50,000)	-	(175,000)
BOND ISSUES	-	-	-	-	-	-	-	-	-
STATE REVOLVING LOANS	(4,550,000)	(1,800,000)	-	(1,800,000)	(1,850,000)	(3,525,000)	-	-	(7,175,000)
OTHER FINANCING SOURCES	-	-	-	-	-	-	-	-	-
NET CAPITAL IMPROVEMENTS	$ 413,624	$ -	$ 374,454	$ 374,454	$ 604,553	$ 686,001	$ 1,509,459	$ 3,025,000	$ 6,199,467

* Justification Codes:
A - Return on Investment
B - Public Safety
C - Community Health
D - Efficiency/Other

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W2001

PROJECT TITLE: Newark Reservoir Upgrades

PROJECT STATUS: New Project

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ -	$ -	$ 100,000	$ 1,500,000	$ 1,600,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ -	$ -	$ 100,000	$ 1,500,000	$ 1,600,000

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
DIVISION:	Water
FUND:	Water
PROJECT LOCATION:	Newark Reservoir
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:	2020
Est. Completion Date:	2025
Est. Useful Life (in years):	20
Est. Total Cost:	$ 1,600,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 1,600,000

[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:	5295206.9960	$ 1,600,000
TOTAL PROJECT COST		$ 1,600,000

[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 Newark Reservoir has been in use since 2008 and there are upgrades and changes necessary to continue operations. Among the work contemplated for this project include:

Rehabilitation of the 'moat' area that surrounds the reservoir and moves water from the I/O Tower to the wetlands bench on the north end of the reservoir. This includes replacing rock protection and pest deterents that have degraded over the years.

Replacement of the wetland bench on the north end to restore and enhance the filtering capabilities.

The original design for the reservoir called for a concrete liner or armor on the interior of the reservoir. This was omitted during the construction phase of the project. In times of drought, if the reservoir was to be used below the existing armor, special considerations would need to be followed during refill in order to keep the liner intact. Extending the liner would increase the confidence PWWR would have in times of drought.

Many recreational uses and operational needs have been realized at the reservoir property since it's opening and this has changed the vegetative and facility needs, this project would alllow us to do a comprehensive review for possible future uses.

2023 Funding includes 50/50 Planning Grant through SRF Program.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	50,000	1,500,000	$ 1,550,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS SRF	-	-	-	$ -	-	-	-	50,000	-	$ 50,000
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ 1,500,000	$ 1,600,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W1701

PROJECT TITLE: Valve Inspection, Exercising and Rehabilitation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 125,000	$ 125,000	$ 125,000	$ 125,000	$ -	$ 500,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 125,000	$ 125,000	$ 125,000	$ 125,000	$ -	$ 500,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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 @ 12/31/2019 (if underway)[1]:	$ 165,000
% Complete (if underway):	24.8%
Balance to be funded[1]:	$ 500,000

[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:	5295206.9760	$ 165,000
Other Contracts:	5295206.9960	$ 335,000
TOTAL PROJECT COST		$ 500,000

[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 its 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 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	165,000	-	165,000	$ -	125,000	125,000	125,000	125,000	-	$ 500,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 165,000	$ -	$ 165,000	$ -	$ 125,000	$ 125,000	$ 125,000	$ 125,000	$ -	$ 500,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W1702

PROJECT TITLE: Source Water Protection

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 20,000	$ 20,000	$ 20,000	$ 25,000	$ 25,000	$ 110,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 20,000	$ 20,000	$ 20,000	$ 25,000	$ 25,000	$ 110,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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:	Perpetual
Est. Useful Life (in years):	20
Est. Total Cost:	$ 130,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 20,000
% Complete (if underway):	15.4%
Balance to be funded[1]:	$ 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	ACCOUNT NUMBER	AMOUNT
Labor:		$ -
Materials:	5295206.9760	$ 110,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 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:

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, and potable goal. A pilot project for this fund was completed in 2017 and the results have been positive so far.

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 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	20,000	-	20,000	$ -	20,000	20,000	20,000	25,000	25,000	$ 110,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 20,000	$ -	$ 20,000	$ -	$ 20,000	$ 20,000	$ 20,000	$ 25,000	$ 25,000	$ 110,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W1703

PROJECT TITLE: Laird Tract Well Field Restoration

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ 100,000	$ 1,925,000	$ -	$ -	$ 2,025,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ 100,000	$ 1,925,000	$ -	$ -	$ 2,025,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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:	2022
Est. Useful Life (in years):	20
Est. Total Cost:	$ 2,025,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 2,025,000

[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	$ 2,025,000
TOTAL PROJECT COST		$ 2,025,000

[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 fund the design and construction of a new drinking water treatment plant or supply configuration changes necessary for the reliable supply for the existing Newark Water Treatment Plant (NWTP), 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, increased drinking water regulations and 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 consists 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 2021 along with the design of the collection system upgrades with the full project being constructed in 2022.

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 will submit 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 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	50,000	-	-	-	$ 50,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS PPA and Planning Grants	-	-	-	$ -	-	50,000	-	-	-	$ 50,000
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	1,925,000	-	-	$ 1,925,000
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ 1,925,000	$ -	$ -	$ 2,025,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W1601
PROJECT TITLE: Backup Generation at Water Facilities
PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 125,000	$ -	$ -	$ -	$ -	$ 125,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 125,000	$ -	$ -	$ -	$ -	$ 125,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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:	2020
Est. Useful Life (in years):	20
Est. Total Cost:	$ 195,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 70,000
% Complete (if underway):	35.9%
Balance to be funded[1]:	$ 125,000

[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	$ 125,000
TOTAL PROJECT COST		$ 125,000

[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.

We have secured Grant Funding through the FEMA Pre-Disaster Mitigation Grant and we anticipate receiving 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.

2020 - Added $50,000 due to local match necessary to recieve grant for 2019 and 2020. Potential for in kind services performed by City staff originally was not allowed by grant, but the rules have been relaxed. Well 17 grant included in 2020.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	50,000	-	-	-	-	$ 50,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS FEMA Pre-Disaster Mitigation Grant	70,000	-	70,000	$ -	75,000	-	-	-	-	$ 75,000
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 70,000	$ -	$ 70,000	$ -	$ 125,000	$ -	$ -	$ -	$ -	$ 125,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	2,000	2,000	2,000	2,000	2,000	$ 10,000

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W1602

PROJECT TITLE: Roseville Park Pressure District

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 25,000	$ 250,000	$ -	$ -	$ -	$ 275,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 25,000	$ 250,000	$ -	$ -	$ -	$ 275,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
DIVISION:	Water
FUND:	Water
PROJECT LOCATION:	Roseville Park and Delaplane Manor
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

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.

§ 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 @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 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	AMOUNT
Labor:		$ -
Materials:		$ -
Other Contracts:	5295206.9760	$ 275,000
TOTAL PROJECT COST		$ 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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	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 ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	2,500	2,500	2,500	2,500	2,500	$ 12,500

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W1503

PROJECT TITLE: Academy Street Interconnection Pump Station

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ 90,000	$ 500,000	$ -	$ -	$ 590,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ 90,000	$ 500,000	$ -	$ -	$ 590,000

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
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:	2021
Est. Useful Life (in years):	15
Est. Total Cost:	$ 550,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 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	ACCOUNT NUMBER	AMOUNT
Labor:		$ -
Materials:	5295206.9760	$ 550,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 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 year and/or "out years."

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 typically 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 to which we will connect a portable pump on a temporary basis if the need for water purchases arises. We have an on-call 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. 2021 Funding for design and permitting followed by construction in 2022.

The funding also includes the eventual decommisioning and repurposing of the existing pump building on Academy Street and Waterworks Lane. It is adjacent to Lewis Park and the James F. Hall Trail, which positions it well for some type of concession, bathroom facility, or rest area.

Please note, $40,000 (of Current Resources in 2020) were moved from Capital Project W1302 - Abandon Old Wells, into Capital Project W1503 in 2021.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	90,000	500,000	-	-	$ 590,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ -	$ 90,000	$ 500,000	$ -	$ -	$ 590,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

		FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
PROJECT NO:	W1402	New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
PROJECT TITLE:	Air Stripper Replacement - South Well Field	*Prior Authorized Balance:	$ 2,582,695	$ -	$ -	$ -	$ -	$ 2,582,695
PROJECT STATUS:	In Progress (with end date)	2020-2024 Funding:	$ 2,582,695	$ -	$ -	$ -	$ -	$ 2,582,695

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
DIVISION:	Water
FUND:	Water
PROJECT LOCATION:	South Well Field Treatment Plant
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:	2014
Est. Completion Date:	2019
Est. Useful Life (in years):	15
Est. Total Cost:	$ 3,030,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 447,305
% Complete (if underway):	14.8%
Balance to be funded[1]:	$ 2,582,695

[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:	5295206.9740	$ 2,582,695
TOTAL PROJECT COST		$ 2,582,695

[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 necessary 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.

We are still on track to complete the design and bidding in 2019 with construction beginning in late 2019/early 2020.

Funds were deauthorized in year 2019 from Capital Project W8605 in the amount of $350,000, in order to partially fund Capital Project W1402 in 2019.

Referendum Funding was approved and Loan Closed at $3,000,000. Design Costs encumbered to AECOM in 2019 at $414,850. Construction costs would be capped at $2,585,150. Current estimate is roughly $2.4mm at 60%. Storage Tank removal and replacement ($350,000) is not included in the above estimate and would be paid for from W8605 - Water Tank Replacement, also a referendum funded project.

$90,000 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan. $90,000 of Current Resources previously listed in 2019 will be transferred to W1901 per budget amendment.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	707	707	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	3,000,000	417,305	-	$ 2,582,695	2,582,695	-	-	-	-	$ 2,582,695
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 3,000,707	$ 418,012	$ -	$ 2,582,695	$ 2,582,695	$ -	$ -	$ -	$ -	$ 2,582,695

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W0503

PROJECT TITLE: Well Restoration Program

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 58,000	$ 29,000	$ 29,000	$ 29,000	$ -	$ 145,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 58,000	$ 29,000	$ 29,000	$ 29,000	$ -	$ 145,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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

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.

Well 15 -Completed in 2016

Well 11 - Completed in 2017

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2005
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	5
Est. Total Cost:	$ 221,576
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 76,576
% Complete (if underway):	34.6%
Balance to be funded[1]:	$ 145,000

[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:	5295206.9760	$ 145,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 145,000

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	28,000	-	28,000	$ -	58,000	29,000	29,000	29,000	-	$ 145,000
CAPITAL RESERVES	48,576	-	48,576	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 76,576	$ -	$ 76,576	$ -	$ 58,000	$ 29,000	$ 29,000	$ 29,000	$ -	$ 145,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W9302

PROJECT TITLE: Water SCADA System

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 350,000	$ -	$ -	$ -	$ -	$ 350,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 350,000	$ -	$ -	$ -	$ -	$ 350,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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:	1993
Est. Completion Date:	2020
Est. Useful Life (in years):	15
Est. Total Cost:	$ 773,431
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 223,431
% Complete (if underway):	28.9%
Balance to be funded[1]:	$ 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	ACCOUNT NUMBER	AMOUNT
Labor:		$ -
Materials:		$ -
Other Contracts:	5295206.9760	$ 350,000
TOTAL PROJECT COST		$ 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 facility 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.

$6,000 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan.

Referendum Funding approved at $550,000 over 2 years. $200,000 expected to be spent in 2019.

$6,000 of Current Resources previously listed in 2019 will be transferred to W1901 per budget amendment.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	23,431	5,026	18,405	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	200,000	-	200,000	$ -	350,000	-	-	-	-	$ 350,000
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 223,431	$ 5,026	$ 218,405	$ -	$ 350,000	$ -	$ -	$ -	$ -	$ 350,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	1,500	1,500	1,500	1,500	1,500	$ 7,500

PROJECT NO:	**W9308**	**FUNDING SUMMARY:**						

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: **W9308**

PROJECT TITLE: **Water Main Replacement Program**

PROJECT STATUS: **Reoccurring (with no end date)**

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 502,906	$ 1,000,000	$ 1,000,000	$ 1,250,000	$ 1,500,000	$ 5,252,906
*Prior Authorized Balance:	$ 497,094	$ -	$ -	$ -	$ -	$ 497,094
2020-2024 Funding:	**$ 1,000,000**	**$ 1,000,000**	**$ 1,000,000**	**$ 1,250,000**	**$ 1,500,000**	**$ 5,750,000**

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
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:	1993
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	75+
Est. Total Cost:	$ 6,753,506
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 503,506
% Complete (if underway):	7.5%
Balance to be funded[1]:	$ 6,250,000

[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	**ACCOUNT NUMBER**	**AMOUNT**
Labor:		$ -
Materials:		$ -
Other Contracts:	5295206.9760	$ 5,750,000
TOTAL PROJECT COST		$ 5,750,000

[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 on 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, plans have changed based on our water model and instead of upgrades along West main, we intend to begin an upgrade to the main on Dallam Road and replace the water main along Wilson Road. Exhibits are attached to this CIP sheet. Due to the Main Street Improvements, the East Park work that was contemplated in 2018 and 2019 will be completed in 2020, along with the continuation on the upgraded main in Dallam Road.

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.

$30,000 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan.

Total of $4,000,000 approved by 2018 referendum. $1,000,000 loan closed in 2019 and expected to be encumbered in 2019.

$30,000 of Current Resources previously listed in 2019 were transferred to W1901 per budget amendment.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) **SOURCE OF FUNDS:**	**Prior Authorized[2]**	**Actual Funds Utilized as of 03/31/19**	**Estimated Expenditures 04/01/19 - 12/31/19**	**Estimated Authorized Balance[2] 12/31/19**	**2020**	**2021**	**2022**	**2023**	**2024**	**TOTAL 5 Year CIP**
CURRENT RESOURCES	-	-	-	$ -	-	-	-	1,250,000	1,500,000	$ 2,750,000
CAPITAL RESERVES	600	600	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	1,000,000	2,906	500,000	$ 497,094	1,000,000	1,000,000	1,000,000	-	-	$ 3,000,000
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	**$ 1,000,600**	**$ 3,506**	**$ 500,000**	**$ 497,094**	**$ 1,000,000**	**$ 1,000,000**	**$ 1,000,000**	**$ 1,250,000**	**$ 1,500,000**	**$ 5,750,000**

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	**2020**	**2021**	**2022**	**2023**	**2024**	**TOTAL**
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

W9308: Water Main Replacement Program
Supporting Documentation - Page 1
East Park Place

CITY OF NEWARK DELAWARE	East Park Place		
W9308 2020 Proposed Water Main Replacement	LEGEND		
September 2019	System Valve: Opened; Hydrant: In Service; Network Structure: Other	Fitting: Bend, Tee, Cap, Reducer, Cross; Water Main to be Replaced	Water Lateral; Abandoned Line; Water Main (Diameter, Owned By): 6", City of Newark; 8", City of Newark; 10", City of Newark; All sizes, Private or Unknown

N W E S

0 70 140 Feet

NEWARK DELAWARE
Committed to Service Excellence

W9308: Water Main Replacement Program

Supporting Documentation - Page 2

Dallam Road

CITY OF NEWARK DELAWARE	Dallam Road
W9308 2020 Proposed Water Main Replacement	**LEGEND**
September 2019	

LEGEND

- **Control Valve**
  - Air Release
- **System Valve**
  - Closed
  - Opened
- **Hydrant**
  - In Service
- Water Main to be Replaced
- Water Lateral
- Abandoned Line
- **Water Main (Diameter, Owned By)**
  - 6", City of Newark
  - 12", City of Newark

N S W E

0 115 230 Feet

NEWARK DELAWARE
Committed to Service Excellence

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: W8605

PROJECT TITLE: Water Tank Maintenance

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ 600,000	$ 600,000	$ -	$ -	$ 1,200,000
*Prior Authorized Balance:	$ 450,000	$ 250,000	$ -	$ -	$ -	$ 700,000
2020-2024 Funding:	$ 450,000	$ 850,000	$ 600,000	$ -	$ -	$ 1,900,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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:	1986
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	15
Est. Total Cost:	$ 2,273,263
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 373,263
% Complete (if underway):	16.4%
Balance to be funded[1]:	$ 1,900,000

[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	$ 1,900,000
TOTAL PROJECT COST		$ 1,900,000

[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 included to account for additional testing, notification, specification and contract document updates, and safety precautions.

The current painting schedule is:

2020-2024 CIP

2020 - Arbour Park Tank (500,000 gallon ground tank) - Lead present in current coating. $350,000, last painted in 2003
2021 - Dallam Road Tank (565,000 gallon ground tank) - Lead present in current coating. $350,000, last painted in 2003
2021 - Nottingham Road (West Main) Tank (220,000 gallon ground tank) -Lead present is current coating. $350,000, last painted in 2003
2022 - New London Tank (2,000,000 gallon ground tank) - $500,000, last painted in 1997

Future CIP

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
2032 - Louviers Tank (1,000,000 gallon elevated tank) - $750,000, last painted in 2016

Note - Due to the presence of lead in the existing coatings and the methods required to remove and dispose of the lead 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.

We are approved for up to $2,250,000 from the SRF with $674,112 in loan forgiveness at project completion. Revised the funding in each project year to reflect the loan closing in 2019. Expect Southwell Tank to be funded in late 2019 at $350,000 with the remaining funds spread over the next 3 years.

Please note that $350,000 was deauthorized in 2019 to be transferred to Capital Project W1402. In addition, $11,000 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	11,000	-	11,000	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	12,263	718	11,545	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	1,050,000	-	350,000	$ 700,000	450,000	850,000	600,000	-	-	$ 1,900,000
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 1,073,263	$ 718	$ 372,545	$ 700,000	$ 450,000	$ 850,000	$ 600,000	$ -	$ -	$ 1,900,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: WEQSF

PROJECT TITLE: Equipment Replacement Program

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 310,000	$ 100,000	$ 50,000	$ 50,000	$ -	$ 510,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 310,000	$ 100,000	$ 50,000	$ 50,000	$ -	$ 510,000

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
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:	$ 634,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 124,000
% Complete (if underway):	19.6%
Balance to be funded[1]:	$ 510,000

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

CLASSIFICATION	ACCOUNT NUMBER	AMOUNT
Labor:		$ -
Materials:		$ -
Other Contracts:	5295206.9623	$ 510,000
TOTAL PROJECT COST		$ 510,000

[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 reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	38,624	-	38,624	$ -	96,454	40,553	12,001	30,459	-	$ 179,467
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	85,376	22,122	63,254	$ -	213,546	59,447	37,999	19,541	-	$ 330,533
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 124,000	$ 22,122	$ 101,878	$ -	$ 310,000	$ 100,000	$ 50,000	$ 50,000	$ -	$ 510,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
WATER AND WASTEWATER UTILITIES

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
	STAFF VEHICLES														
215	2019 Chevrolet Equinox AWD		06/03/19	22,122	--	60,000	10	2029	2029	22,122					
	LINE TRUCKS														
202	2012 Ford F350	a.	10/18/12	74,095	41,441	80,000	8	2020	2019	74,095					
207	2005 Int'l 7400 Dump Truck		08/05/05	95,845	43,258	36,000	8	2013	2020	95,845	185,000				
	PICK-UPS & VANS														
204	2016 Ford F350 Dump Truck		09/02/16	34,155	7,242	85,000	10	2026	2026	34,155					
206	2014 Ford F150 Pickup Truck		12/31/14	25,011	123,533	120,000	5	2020	2021	25,011		35,000			
211	2009 Ford F250 Pickup Truck, Supercab		06/05/09	25,267	64,229	80,000	10	2019	2021	25,267		40,000			
218	2017 Ford F250 Pickup Truck 4x4		08/30/17	30,512	8,624	100,000	10	2027	2027	30,512					
224	2012 Ford F250 Pickup Truck		10/25/12	37,999	36,746	80,000	10	2022	2022	37,999			50,000		
241	2015 Ford Transit Connect		12/31/14	21,491	36,726	100,000	10	2025	2025	21,491					
244	2016 Ford F250 Pickup Truck, Reg. Cab 4x4		07/21/16	26,959	17,875	100,000	10	2026	2026	26,959					
299	2013 Ford F150 Pickup Truck, Ext. Cab		06/28/13	19,541	32,955	100,000	10	2023	2023	19,541				50,000	
	OTHER EQUIPMENT														
201	1994 Ingersoll Air Compressor P175 Rand	b.	09/09/94	9,169	--	--	15	2009	2021	9,169		25,000			
220	2011 Case 590 SN Loader/Backhoe		10/14/11	117,701	--	--	9	2020	2020	117,701	125,000				
TOTAL WATER AND WASTE WATER UTILITY							**GROSS ACQUISITION COST**				**$ 310,000**	**$ 100,000**	**$ 50,000**	**$ 50,000**	**$ -**
							LESS: USE OF CAPITAL RESERVES				-	-	-	-	-
							LESS: USE OF CURRENT RESOURCES				(96,454)	(40,553)	(12,001)	(30,459)	-
							NET EQUIPMENT SINKING FUND TOTAL				**$ 213,546**	**$ 59,447**	**$ 37,999**	**$ 19,541**	**$ -**

a. This vehicle scheduled to be replaced in 2019.
b. This equipment will not be replaced.
* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

SEWER DIVISION

GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Sewer Fund - Public Works and Water Resources Department - Sewer Division

Summary:

SEWER DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
REVENUES						
Sewer Service Charge	$ 7,018,863	$ 6,875,000	$ 7,634,150	$ 8,015,858	$ 381,708	5.0%
Penalties	22,094	16,385	19,500	21,310	1,810	9.3%
Service Fees	479	1,000	500	630	130	26.0%
Other Revenues	62,435	-	15,900	17,650	1,750	11.0%
Interest Revenue	36,020	29,100	31,000	32,140	1,140	3.7%
Subtotal	$ 7,139,891	$ 6,921,485	$ 7,701,050	$ 8,087,588	$ 386,538	5.0%
Less: County Sewer Charge	N/A	N/A	N/A	N/A	N/A	N/A
Gross Operating Revenue	$ 7,139,891	$ 6,921,485	$ 7,701,050	$ 8,087,588	$ 386,538	5.0%
OPERATING EXPENSES						
Personnel Services	$ 335,085	$ 345,956	$ 356,592	$ 365,885	$ 9,293	2.6%
Utility Purchases	4,639,046	4,719,771	5,286,144	5,286,144	-	0.0%
Materials & Supplies	20,837	24,638	29,000	28,261	(739)	-2.5%
Contractual Services	255,430	276,530	353,235	330,544	(22,691)	-6.4%
Other Charges	50,889	39,223	68,817	43,676	(25,141)	-36.5%
Subtotal	$ 5,301,287	$ 5,406,118	$ 6,093,788	$ 6,054,510	$ (39,278)	-0.6%
Inter-Dept. Charges	439,866	329,871	293,615	329,417	35,802	12.2%
Total Operating Expenses	$ 5,741,153	$ 5,735,989	$ 6,387,403	$ 6,383,927	$ (3,476)	-0.1%
Net Operating Margin (Before Capital Costs)	**$ 1,398,738**	**$ 1,185,496**	**$ 1,313,647**	**$ 1,703,661**	**$ 390,014**	**29.7%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Sewer Fund - Public Works and Water Resources Department - Sewer Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5395302	6200	Line Maintenance	$ 203,280	$ 201,600	$ 216,353	$ 221,218	$ 4,865	2.2%
5395302	6580	Service Award	1,413	1,412	1,579	1,678	99	6.3%
5395302	6590	Sick Pay	5,008	1,008	1,046	1,240	194	18.5%
5395302	6615	Interns	5,252	5,928	6,500	6,500	-	0.0%
5395302	6620	Overtime	18,635	20,672	15,300	17,000	1,700	11.1%
5395302	6880	Uniform Allowance	2,350	2,400	2,400	2,400	-	0.0%
5395302	6885	Device Reimbursement	-	1,200	900	1,200	300	33.3%
5395302	6920	Unemployment Comp. Ins.	1,876	1,213	1,099	1,424	325	29.6%
5395302	6930	Social Security Taxes	17,800	17,579	18,959	18,719	(240)	-1.3%
5395302	6940	City Pension Plan	16,028	27,148	18,620	22,654	4,034	21.7%
5395302	6941	Defined Contribution 401(a) Plan	9,313	10,102	11,694	11,276	(418)	-3.6%
5395302	6950	Term Life Insurance	827	968	1,099	1,070	(29)	-2.6%
5395302	6960	Group Hospitalization Ins.	40,901	41,885	47,953	44,837	(3,116)	-6.5%
5395302	6961	Long-Term Disability Ins.	313	367	414	513	99	23.9%
5395302	6962	Dental Insurance	2,450	2,331	2,577	2,519	(58)	-2.3%
5395302	6963	Flexible Spending Account	-	-	11	63	52	472.7%
5395302	6964	HSA City Contributions	-	750	750	1,500	750	100.0%
5395302	6965	Post-Employment Benefits	5,620	5,062	4,140	5,068	928	22.4%
5395302	6966	Retirement Health Savings Account	3,869	4,129	4,430	4,263	(167)	-3.8%
5395302	6967	Emergency Room Reimbursements	-	50	604	580	(24)	-4.0%
5395302	6968	Vision Insurance Premiums	150	152	164	163	(1)	-0.6%
TOTAL PERSONNEL SERVICES			**$ 335,085**	**$ 345,956**	**$ 356,592**	**$ 365,885**	**$ 9,293**	**2.6%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
SEWER DIVISION

Title	Union Affiliation	Grade	2019 # of Positions	2019 Approved	2020 # of Positions	2020 Requested	Position Difference	$ Difference	% Change
FULL TIME POSITIONS									
Maintenance IV	AFSCME LOCAL 1670 F/T	8	2.0	$ 115,677	2.0	$ 118,380	0.0	$ 2,703	2.3%
Equipment Operator	AFSCME LOCAL 1670 F/T	3	2.0	$ 100,676	2.0	$ 102,838	0.0	$ 2,162	2.1%
Total Full-Time Positions			4.0	**$ 216,353**	4.0	**$ 221,218**	0.0	**$ 4,865**	**2.2%**
PART-TIME FUNDING									
Intern				$ 6,500		$ 6,500		$ -	0.0%
Total Part-Time Funding				**$ 6,500**		**$ 6,500**		**$ -**	**0.0%**
OTHER									
Service Award				$ 1,579		$ 1,678		$ 99	6.3%
Sick Pay				$ 1,046		$ 1,240		$ 194	18.5%
Overtime				$ 15,300		$ 17,000		$ 1,700	11.1%
Uniform Allowance				$ 2,400		$ 2,400		$ -	0.0%
Device Reimbursements				$ 900		$ 1,200		$ 300	33.3%
Total Other				**$ 21,225**		**$ 23,518**		**$ 2,293**	**10.8%**
Total All			**4.0**	**$ 244,078**	**4.0**	**$ 251,236**	**0.0**	**$ 7,158**	**2.9%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Sewer Fund - Public Works and Water Resources Department - Sewer Division

Expenditures:

MATERIALS AND SUPPLIES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5395303	7110 Safety Shoes and Supplies	$ 700	$ 818	$ 1,500	$ 1,500	$ -	0.0%
5395303	7130 Tools, Field Sup., & Small Eq.	6,077	7,168	10,000	8,000	(2,000)	-20.0%
5395303	7131 Information Technology Supplies	-	-	-	1,261	1,261	100.0%
5395303	7260 Line Maintenance	13,520	16,498	16,000	16,000	-	0.0%
5395303	7270 Station Maintenance	376	827	1,500	1,500	-	0.0%
5395303	7540 Inventory Adjustment	164	(673)	-	-	-	0.0%
TOTAL MATERIALS & SUPPLIES		**$ 20,837**	**$ 24,638**	**$ 29,000**	**$ 28,261**	**$ (739)**	**-2.5%**

CONTRACTUAL SERVICES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5395304	8030 Casualty Insurance	$ 1,952	$ 1,956	$ 2,110	$ 2,100	$ (10)	-0.5%
5395304	8031 Insurance - Property	1,528	2,473	2,420	2,470	50	2.1%
5395304	8033 Insurance - Broker	333	442	420	448	28	6.7%
5395304	8035 Insurance - Worker's Compensation	-	-	-	11,050	11,050	100.0%
5395304	8040 Merchant Fees and Discounts	75,849	76,384	75,000	75,000	-	0.0%
5395304	8050 Phone/Communications	1,375	-	400	-	(400)	-100.0%
5395304	8120 Outside Engineering	27,171	18,246	40,000	40,000	-	0.0%
5395304	8131 Information Technology Cont'l	53,034	36,215	71,085	63,692	(7,393)	-10.4%
5395304	8260 Line Maintenance	50,442	34,041	100,000	75,000	(25,000)	-25.0%
5395304	8265 Easement Clearing	3,716	3,100	15,000	12,500	(2,500)	-16.7%
5395304	8270 Station Maintenance	14,950	8,418	15,000	15,000	-	0.0%
5395304	8312 Fleet & Facilities Services	25,620	94,711	31,800	33,284	1,484	4.7%
5395304	8550 Misc. Contracted Services	(540)	544	-	-	-	0.0%
TOTAL CONTRACTUAL SERVICES		**$ 255,430**	**$ 276,530**	**$ 353,235**	**$ 330,544**	**$ (22,691)**	**-6.4%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Sewer Fund - Public Works and Water Resources Department - Sewer Division

Expenditures:

OTHER CHARGES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5395305	9002	Subvention - Aetna Hook and Ladder	$ -	$ -	$ 3,500	$ 3,500	$ -	0.0%
5395305	9010	Bad Debt Expense	225	1,108	892	2,590	1,698	190.4%
5395305	9060	Depreciation Expense	49,152	36,379	61,925	35,086	(26,839)	-43.3%
5395305	9070	Training & Continuing Educ/Conf	1,512	1,736	2,500	2,500	-	0.0%
TOTAL OTHER CHARGES			**$ 50,889**	**$ 39,223**	**$ 68,817**	**$ 43,676**	**$ (25,141)**	**-36.5%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Administrative Overhead	$ 221,346	$ 119,707	$ 132,454	$ 141,751	$ 9,297	7.0%
Billings and Accounting	96,055	45,564	57,966	63,717	5,751	9.9%
Electricity	10,911	12,227	10,483	9,628	(855)	-8.2%
Information Technology	83,848	86,381	68,930	90,296	21,366	31.0%
Other Indirect Charges	25,670	63,169	22,259	22,259	-	0.0%
Warehousing	2,036	2,823	1,523	1,766	243	16.0%
TOTAL INTER-DEPT. CHARGES	**$ 439,866**	**$ 329,871**	**$ 293,615**	**$ 329,417**	**$ 35,802**	**12.2%**

OPERATING EXPENSES - SEWER DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 1,102,107**	**$ 1,016,218**	**$ 1,101,259**	**$ 1,097,783**	**$ (3,476)**	**-0.3%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

SEWER DIVISION

CAPITAL IMPROVEMENTS PROGRAM

CITY OF NEWARK, DELAWARE
CAPITAL IMPROVEMENTS PROGRAM 2020-2024
(with current year amended budget)

SEWER FUND - PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - SEWER DIVISION

F U N D I N G   S U M M A R Y

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 623,486	$ 800,000	$ 800,000	$ 1,300,000	$ 1,350,000	$ 4,873,486
***Prior Authorized Balance:**	$ 376,514	$ -	$ -	$ -	$ -	$ 376,514
2020-2024 Funding:	$ 1,000,000	$ 800,000	$ 800,000	$ 1,300,000	$ 1,350,000	$ 5,250,000

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NUMBER	PROJECT NAME	*	2019 BUDGET AS AMENDED	2020 RESERVES AND OTHER FUNDING	2020 CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
S0904	Sanitary Sewer Study and Repairs	B	$ 1,355,000	$ 1,000,000	$ -	$ 1,000,000	$ 800,000	$ 800,000	$ 1,000,000	$ 1,000,000	$ 4,600,000
SEQSF	Equipment Replacement Program	B	-	-	-	-	-	-	300,000	350,000	650,000
	Total Sewer Fund - Sewer Division		$ 1,355,000	$ 1,000,000	$ -	$ 1,000,000	$ 800,000	$ 800,000	$ 1,300,000	$ 1,350,000	$ 5,250,000

PLANNED FINANCING SOURCES	2019 BUDGET AS AMENDED	2020 RESERVES AND OTHER FUNDING	2020 CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
GROSS CAPITAL IMPROVEMENTS	$ 1,355,000	$ 1,000,000	$ -	$ 1,000,000	$ 800,000	$ 800,000	$ 1,300,000	$ 1,350,000	$ 5,250,000
LESS: USE OF RESERVES	-	-	-	-	-	-	-	-	-
VEHICLE & EQUIPMENT REPLACEMENT	-	-	-	-	-	-	-	(234,160)	(234,160)
GRANTS	-	-	-	-	-	-	-	-	-
BOND ISSUES	-	-	-	-	-	-	-	-	-
STATE REVOLVING LOANS	(1,300,000)	(1,000,000)	-	(1,000,000)	(800,000)	(800,000)	-	-	(2,600,000)
OTHER FINANCING SOURCES	-	-	-	-	-	-	-	-	-
NET CAPITAL IMPROVEMENTS	$ 55,000	$ -	$ -	$ -	$ -	$ -	$ 1,300,000	$ 1,115,840	$ 2,415,840

* Justification Codes:
A - Return on Investment
B - Public Safety
C - Community Health
D - Efficiency/Other

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: S0904

PROJECT TITLE: Sanitary Sewer Study and Repairs

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 623,486	$ 800,000	$ 800,000	$ 1,000,000	$ 1,000,000	$ 4,223,486
*Prior Authorized Balance:	$ 376,514	$ -	$ -	$ -	$ -	$ 376,514
2020-2024 Funding:	**$ 1,000,000**	**$ 800,000**	**$ 800,000**	**$ 1,000,000**	**$ 1,000,000**	**$ 4,600,000**

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
DIVISION:	Sewer
FUND:	Sewer
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):	50+
Est. Total Cost:	$ 6,480,445
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 1,380,445
% Complete (if underway):	21.3%
Balance to be funded[1]:	$ 5,100,000

[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:	5395306.9760	$ 4,600,000
TOTAL PROJECT COST		$ 4,600,000

[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 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 2020, we plan to continue the inspection of our sewer collection and transmission system and complete any repairs recommended by these inspections. Inspection area maps are included. We also intend to develop and implement the plan for our pump station emergency by-pass at our two primary pump stations.

Referendum and State Revolving Loan Funding was approved over a 3 year period totaling $3,900,000. Closed on $1,300,000 loan in 2019. Need to close $1.3mm in both 2020 and 2021. Spending can be spread until 2022 as shown in previous budget.

$55,000 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	55,000	-	55,000	$ -	-	-	-	1,000,000	1,000,000	$ 2,000,000
CAPITAL RESERVES	401,959	401,959	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	1,300,000	123,486	800,000	$ 376,514	1,000,000	800,000	800,000	-	-	$ 2,600,000
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	**$ 1,756,959**	**$ 525,445**	**$ 855,000**	**$ 376,514**	**$ 1,000,000**	**$ 800,000**	**$ 800,000**	**$ 1,000,000**	**$ 1,000,000**	**$ 4,600,000**

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

S0904: Sanitary Sewer Study and Repairs
Supporting Documentation - Page 1 (Evaluation)

CITY OF NEWARK DELAWARE	Phillip's Park Trunkline Evaluation Map 1 of 3
S0904 Sanitary Sewer Study and Repairs	LEGEND: Pump Station; Manhole; CCTV; Acoustic Testing
August 2018	

N W E S

0 250 500 Feet

NEWARK DELAWARE Committed to Service Excellence

S0904: Sanitary Sewer Study and Repairs
Supporting Documentation - Page 2 (Lining)

CITY OF NEWARK DELAWARE S0904 Sanitary Sewer Study and Repairs August 2018	Lining Area Map 1 of 2 **LEGEND** Pump Station — Lining Areas Manhole	N W E S 0 150 300 Feet	NEWARK DELAWARE Committed to Service Excellence

THIS PAGE IS LEFT INTENTIONALLY BLANK

*Prior Authorized Balance includes 2019 carryover funding only.

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

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ -	$ -	$ 300,000	$ 350,000	$ 650,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ -	$ -	$ 300,000	$ 350,000	$ 650,000

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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

The sinking fund for Vehicle 304 were utilized, in part, to purchase Vehicle 305. In 2015, an additional sewer crew of two employees and a service vehicle was brought on board. Vehicle 304 is expected to be replaced in 2023.

§ 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:	$ 650,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 650,000

[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:	5395306.9623	$ 650,000
TOTAL PROJECT COST		$ 650,000

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	300,000	115,840	$ 415,840
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	234,160	$ 234,160
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 350,000	$ 650,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
SEWER UTILITY

VEHICLE NUMBER	DESCRIPTION	PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
	STAFF VEHICLES													
304	2006 Int'l 4300 Jetter Truck	11/11/05	146,156	124,257	--	10	2015	2023	-				300,000	
305	2017 Western Star 4700SB	10/13/16	234,160	12,755	--	8	2024	2024	234,160					350,000
TOTAL SEWER UTILITY						**GROSS ACQUISITION COST**				**$ -**	**$ -**	**$ -**	**$ 300,000**	**$ 350,000**
						LESS: USE OF CAPITAL RESERVES				-	-	-	-	-
						LESS: USE OF CURRENT RESOURCES				-	-	-	(300,000)	(115,840)
						NET EQUIPMENT SINKING FUND TOTAL				**$ -**	**$ -**	**$ -**	**$ -**	**$ 234,160**

* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

STORMWATER DIVISION

GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Stormwater Fund - Public Works and Water Resources Department - Stormwater Division

Summary:

STORMWATER DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
REVENUES						
Stormwater Service Fees	$ -	$ 2,017,166	$ 2,280,000	$ 2,350,000	$ 70,000	3.1%
Stormwater Penalties	-	10,550	1,600	23,000	21,400	1337.5%
Stormwater Plan Review Fees	-	-	5,200	5,200	-	0.0%
Stormwater As-Built Review	750	-	-	-	-	0.0%
Sediment & SWM Review Fee	6,965	9,310	6,900	11,510	4,610	66.8%
Sediment & SWM Inspection	1,250	11,750	8,500	13,675	5,175	60.9%
SWM Facility Annual Inspection	19,100	22,570	31,700	31,700	-	0.0%
Interest	-	9,365	1,000	5,500	4,500	450.0%
Stormwater Management Fees	-	-	900	900	-	0.0%
Misc Revenue	-	400	600	200	(400)	-66.7%
Gross Operating Revenue	$ 28,065	$ 2,081,111	$ 2,336,400	$ 2,441,685	$ 105,285	4.5%
OPERATING EXPENSES						
Personnel Services	$ 507,546	$ 847,273	$ 627,582	$ 618,045	$ (9,537)	-1.5%
Utility Purchases	-	-	-	-	-	0.0%
Materials and Supplies	16,016	16,779	26,100	4,100	(22,000)	-84.3%
Contractual Services	242,796	171,051	229,680	256,912	27,232	11.9%
Other Charges	679	27,714	72,035	107,083	35,048	48.7%
Subtotal	$ 767,037	$ 1,062,817	$ 955,397	$ 986,140	$ 30,743	3.2%
Inter-Dept. Charges	24,644	398,267	394,141	446,228	52,087	13.2%
Total Operating Expenses	$ 791,681	$ 1,461,084	$ 1,349,538	$ 1,432,368	$ 82,830	6.1%
Net Operating Margin (Before Capital Costs)	**$ (763,616)**	**$ 620,027**	**$ 986,862**	**$ 1,009,317**	**$ 22,455**	**2.3%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Stormwater Fund - Public Works and Water Resources Department - Stormwater Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5595502	6030	Engineering/Technical	$ 68,934	$ 77,233	$ 80,464	$ 83,667	$ 3,203	4.0%
5595502	6200	Line Maintenance	42,800	52,767	53,828	53,832	4	0.0%
5595502	6230	Maintenance Workers	186,490	153,629	212,568	194,085	(18,483)	-8.7%
5595502	6580	Service Award	8,761	11,183	12,017	10,489	(1,528)	-12.7%
5595502	6590	Sick Pay	2,374	1,363	1,994	2,968	974	48.8%
5595502	6610	Seasonal Workers	-	8,332	-	6,500	6,500	100.0%
5595502	6615	Interns	-	-	6,500	6,500	-	0.0%
5595502	6620	Overtime	8,373	9,105	8,000	9,000	1,000	12.5%
5595502	6623	Weekend Premium	1,108	-	-	-	-	0.0%
5595502	6880	Uniform Allowance	2,365	2,340	2,640	3,240	600	22.7%
5595502	6885	Device Reimbursement	-	1,250	1,800	1,500	(300)	-16.7%
5595502	6920	Unemployment Comp. Ins.	1,920	1,593	1,630	1,936	306	18.8%
5595502	6930	Social Security Taxes	24,055	23,446	28,980	27,802	(1,178)	-4.1%
5595502	6940	City Pension Plan	53,409	169,979	97,110	97,305	195	0.2%
5595502	6941	Defined Contribution 401(a) Plan	2,544	164	749	3,778	3,029	404.4%
5595502	6950	Term Life Insurance	1,344	1,310	1,547	1,483	(64)	-4.1%
5595502	6960	Group Hospitalization Ins.	77,050	81,788	89,617	84,648	(4,969)	-5.5%
5595502	6961	Long-Term Disability Ins.	512	500	595	732	137	23.0%
5595502	6962	Dental Insurance	4,288	4,490	4,758	4,400	(358)	-7.5%
5595502	6963	Admin Fee - Flexible Spending Account	-	-	10	-	(10)	-100.0%
5595502	6965	Post-Employment Benefits	19,006	245,732	21,590	21,769	179	0.8%
5595502	6966	Retirement Health Savings Account	1,307	85	239	1,421	1,182	494.6%
5595502	6967	Emergency Room Reimbursements	754	800	750	725	(25)	-3.3%
5595502	6968	Vision Insurance Premiums	152	184	196	265	69	35.2%
TOTAL PERSONNEL SERVICES			**$ 507,546**	**$ 847,273**	**$ 627,582**	**$ 618,045**	**$ (9,537)**	**-1.5%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
STORMWATER DIVISION

Title	Union Affiliation	Grade	2019 # of Positions	2019 Approved	2020 # of Positions	2020 Requested	Position Difference	$ Difference	% Change
FULL TIME POSITIONS									
Environmental Program Coordinator	CWA F/T	18	1.0	$ 80,464	1.0	$ 83,667	0.0	$ 3,203	4.0%
Maintenance IV	AFSCME LOCAL 1670 F/T	8	2.0	$ 122,420	2.0	$ 122,430	0.0	$ 10	0.0%
Street Sweeper Operator	AFSCME LOCAL 1670 F/T	7	1.0	$ 58,940	1.0	$ 55,973	0.0	$ (2,967)	-5.0%
Equipment Operator	AFSCME LOCAL 1670 F/T	1	1.0	$ 53,828	1.0	$ 53,832	0.0	$ 4	0.0%
Total Full-Time Positions			5.0	**$ 315,652**	5.0	**$ 315,902**	0.0	**$ 250**	**0.1%**
PART-TIME FUNDING									
Maintenance (PT) Street Sweeper	AFSCME LOCAL 1670 P/T			$ 31,208		$ 15,682		$ (15,526)	-49.8%
Seasonal				$ -		$ 6,500		$ 6,500	100.0%
Intern				$ 6,500		$ 6,500		$ -	0.0%
Total Part-Time Funding				**$ 37,708**		**$ 28,682**		**$ (9,026)**	**-23.9%**
OTHER									
Service Award				$ 12,017		$ 10,489		$ (1,528)	-12.7%
Sick Pay				$ 1,994		$ 2,968		$ 974	48.8%
Overtime				$ 8,000		$ 9,000		$ 1,000	100.0%
Uniform Allowance				$ 2,640		$ 3,240		$ 600	22.7%
Device Reimbursements				$ 1,800		$ 1,500		$ (300)	-16.7%
Total Other				**$ 26,451**		**$ 27,197**		**$ 746**	**2.8%**
Total All			**5.0**	**$ 379,811**	**5.0**	**$ 371,781**	**0.0**	**$ (8,030)**	**-2.1%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Stormwater Fund - Public Works and Water Resources Department - Stormwater Division

Expenditures:

MATERIALS AND SUPPLIES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5595503	7110 Safety Shoes and Supplies	$ 1,473	$ 1,510	$ 1,800	$ 2,100	$ 300	16.7%
5595503	7130 Tools,Field Sup.,Small Equip.	623	1,683	1,300	2,000	700	53.8%
5595503	7400 Storm Sewer Maintenance	10,483	10,847	15,000	-	(15,000)	-100.0%
5595503	7401 Stormwater Program Supplies	3,437	2,739	8,000	-	(8,000)	-100.0%
TOTAL MATERIALS & SUPPLIES		**$ 16,016**	**$ 16,779**	**$ 26,100**	**$ 4,100**	**$ (22,000)**	**-84.3%**

CONTRACTUAL SERVICES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5595504	8030 Casualty Insurance	$ -	$ -	$ -	$ 2,100	$ 2,100	100.0%
5595504	8035 Insurance - Worker's Compensation	-	-	-	16,150	16,150	100.0%
5595504	8040 Merchant Fees and Discounts	-	13,237	-	15,000	15,000	100.0%
5595504	8050 Phone/Communications	900	-	-	-	-	0.0%
5595504	8120 Outside Engineering	164,162	16,667	100,000	100,000	-	0.0%
5595504	8130 Bldg. & Equip. Rental	-	-	2,500	2,500	-	0.0%
5595504	8131 Information Technology Cont'l	-	17,215	19,683	20,304	621	3.2%
5595504	8312 Fleet & Facilities Services	62,837	106,111	71,497	72,858	1,361	1.9%
5595504	8401 Stormwater Program Contractual	14,897	10,362	36,000	28,000	(8,000)	-22.2%
5595504	8550 Misc. Contracted Svc.	-	7,459	-	-	-	0.0%
TOTAL CONTRACTUAL SERVICES		**$ 242,796**	**$ 171,051**	**$ 229,680**	**$ 256,912**	**$ 27,232**	**11.9%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Stormwater Fund - Public Works and Water Resources Department - Stormwater Division

Expenditures:

OTHER CHARGES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
5595505	9060	Depreciation Expense	$ -	$ 17,016	$ 17,835	$ 52,283	$ 34,448	193.1%
5595505	9070	Training & Continuing Educ/Conf	679	2,804	3,200	3,200	-	0.0%
5595505	9084	Annual Regulatory Fees	-	-	1,000	1,600	600	60.0%
5595505	9095	Stormwater Grant Program	-	7,894	50,000	50,000	-	0.0%
TOTAL OTHER CHARGES			**$ 679**	**$ 27,714**	**$ 72,035**	**$ 107,083**	**$ 35,048**	**48.7%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Administrative Overhead	$ -	$ 229,706	$ 244,018	$ 268,792	$ 24,774	10.2%
Billings and Accounting	-	35,922	56,492	62,494	6,002	10.6%
Electric Used	711	727	683	628	(55)	-8.1%
Information Technology	-	86,381	68,930	90,296	21,366	31.0%
Other Indirect Charges	23,907	45,507	23,983	23,983	-	0.0%
Printing and Reproduction	26	24	35	35	-	0.0%
TOTAL INTER-DEPT. CHARGES	**$ 24,644**	**$ 398,267**	**$ 394,141**	**$ 446,228**	**$ 52,087**	**13.2%**

OPERATING EXPENSES - STORMWATER DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 791,681**	**$ 1,461,084**	**$ 1,349,538**	**$ 1,432,368**	**$ 82,830**	**6.1%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

STORMWATER DIVISION

CAPITAL IMPROVEMENTS PROGRAM

CITY OF NEWARK, DELAWARE
CAPITAL IMPROVEMENTS PROGRAM 2020-2024
(with current year amended budget)

STORMWATER FUND - PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STORMWATER DIVISION

FUNDING SUMMARY

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 2,911,053	$ 625,000	$ 550,000	$ 620,000	$ 850,000	$ 5,556,053
***Prior Authorized Balance:**	$ 3,612,353	$ -	$ -	$ -	$ -	$ 3,612,353
2020-2024 Funding:	$ 6,523,406	$ 625,000	$ 550,000	$ 620,000	$ 850,000	$ 9,168,406

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NUMBER	PROJECT NAME	*	2019 BUDGET AS AMENDED	2020 RESERVES AND OTHER FUNDING	2020 CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
Q1802	Rodney Regional Stormwater Park	A	$ 4,938,500	$ 5,977,353	$ -	$ 5,977,353	$ -	$ -	$ -	$ -	$ 5,977,353
Q1301	Storm Drainage Improvements	B	491,000	-	466,053	466,053	575,000	500,000	525,000	550,000	2,616,053
Q0101	Stormwater Quality Improvements (NPDES Phase II Permit)	B	40,000	-	50,000	50,000	50,000	50,000	50,000	50,000	250,000
QEQSF	Equipment Replacement Program	B	315,000	13,489	16,511	30,000	-	-	45,000	250,000	325,000
	Total Stormwater Fund - Stormwater Division		$ 5,784,500	$ 5,990,842	$ 532,564	$ 6,523,406	$ 625,000	$ 550,000	$ 620,000	$ 850,000	$ 9,168,406

PLANNED FINANCING SOURCES	2019 BUDGET AS AMENDED	2020 RESERVES AND OTHER FUNDING	2020 CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
GROSS CAPITAL IMPROVEMENTS	$ 5,784,500	$ 5,990,842	$ 532,564	$ 6,523,406	$ 625,000	$ 550,000	$ 620,000	$ 850,000	$ 9,168,406
LESS: USE OF RESERVES	(40,000)	-	-	-	-	-	-	-	-
VEHICLE & EQUIPMENT REPLACEMENT	(161,375)	(13,489)	-	(13,489)	-	-	(26,245)	(75,000)	(114,734)
GRANTS	(50,000)	-	-	-	(50,000)	-	-	-	(50,000)
BOND ISSUES	-	-	-	-	-	-	-	-	-
STATE REVOLVING LOANS	(4,775,000)	(5,977,353)	-	(5,977,353)	-	-	-	-	(5,977,353)
OTHER FINANCING SOURCES	-	-	-	-	-	-	-	-	-
NET CAPITAL IMPROVEMENTS	$ 758,125	$ -	$ 532,564	$ 532,564	$ 575,000	$ 550,000	$ 593,755	$ 775,000	$ 3,026,319

* Justification Codes:
A - Return on Investment
B - Public Safety
C - Community Health
D - Efficiency/Other

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO:	Q1802
PROJECT TITLE:	Rodney Regional Stormwater Park
PROJECT STATUS:	In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 2,365,000	$ -	$ -	$ -	$ -	$ 2,365,000
*Prior Authorized Balance:	$ 3,612,353	$ -	$ -	$ -	$ -	$ 3,612,353
2020-2024 Funding:	$ 5,977,353	$ -	$ -	$ -	$ -	$ 5,977,353

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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

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.

$163,500 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan.

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2018
Est. Completion Date:	2020
Est. Useful Life (in years):	100
Est. Total Cost:	$ 8,513,500
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 2,536,147
% Complete (if underway):	29.8%
Balance to be funded[1]:	$ 5,977,353

[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	$ 5,977,353
TOTAL PROJECT COST		$ 5,977,353

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	163,500	-	163,500	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	202,437	202,437	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	4,808,668	1,196,315	-	$ 3,612,353	5,977,353	-	-	-	-	$ 5,977,353
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 5,174,605	$ 1,398,752	$ 163,500	$ 3,612,353	$ 5,977,353	$ -	$ -	$ -	$ -	$ 5,977,353

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: Q1301

PROJECT TITLE: Storm Drainage Improvements

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 466,053	$ 575,000	$ 500,000	$ 525,000	$ 550,000	$ 2,616,053
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	**$ 466,053**	**$ 575,000**	**$ 500,000**	**$ 525,000**	**$ 550,000**	**$ 2,616,053**

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
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:	$ 3,924,546
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 1,308,493
% Complete (if underway):	33.3%
Balance to be funded[1]:	$ 2,616,053

[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:	5595506.9820	$ 16,053
Materials:	5595506.9720	$ 2,600,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 2,616,053

[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:

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 have 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 had recently failed. 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 and Recreation 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

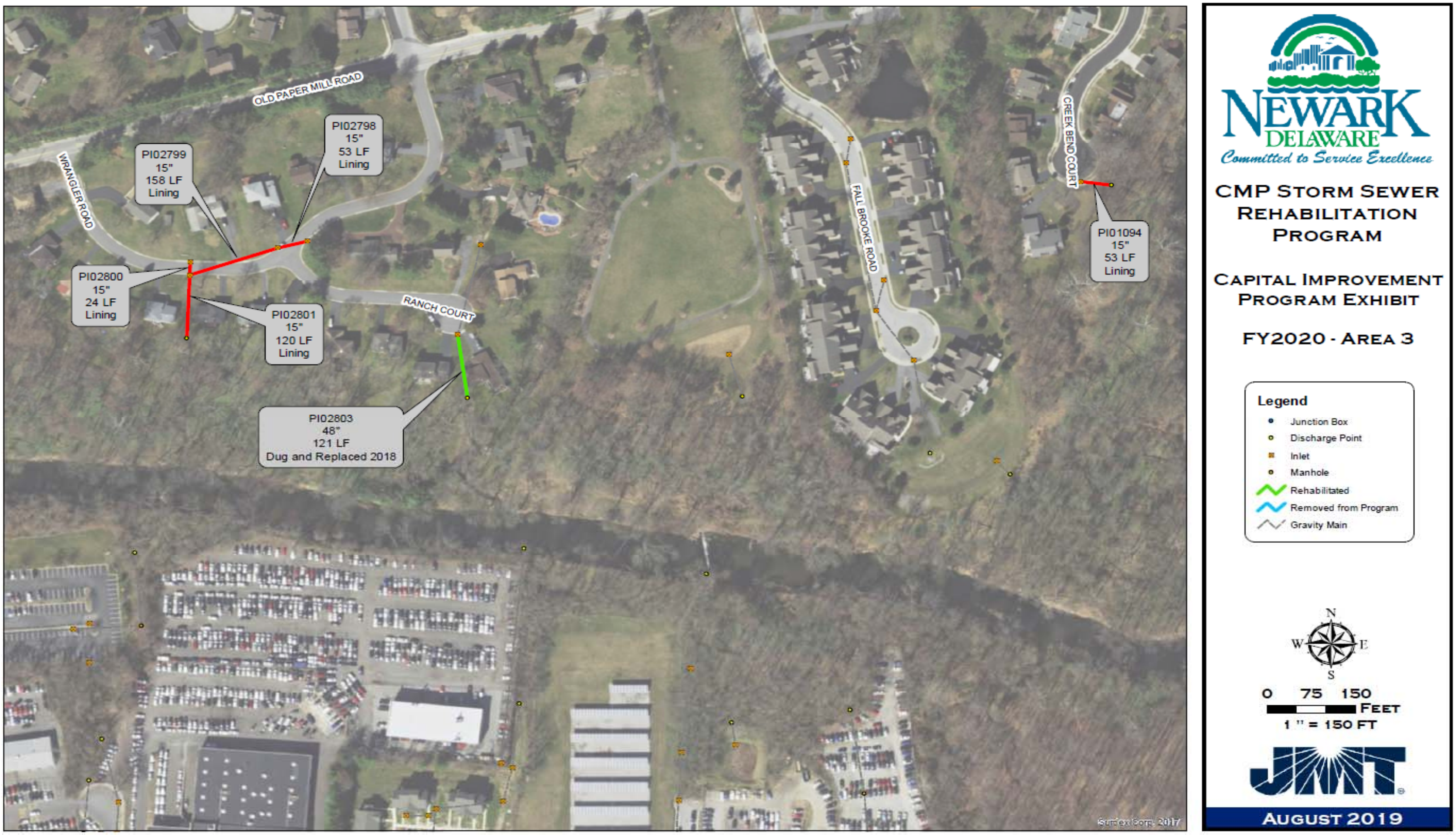
§ 806.1(3) **SOURCE OF FUNDS:**	**Prior Authorized[2]**	**Actual Funds Utilized as of 03/31/19**	**Estimated Expenditures 04/01/19 - 12/31/19**	**Estimated Authorized Balance[2] 12/31/19**	**2020**	**2021**	**2022**	**2023**	**2024**	**TOTAL 5 Year CIP**
CURRENT RESOURCES	441,000	-	441,000	$ -	466,053	525,000	500,000	525,000	550,000	$ 2,566,053
CAPITAL RESERVES	817,493	339,120	478,373	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS SRF Planning	50,000	-	50,000	$ -	-	50,000	-	-	-	$ 50,000
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	**$ 1,308,493**	**$ 339,120**	**$ 969,373**	**$ -**	**$ 466,053**	**$ 575,000**	**$ 500,000**	**$ 525,000**	**$ 550,000**	**$ 2,616,053**

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	**2020**	**2021**	**2022**	**2023**	**2024**	**TOTAL**
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

Q1301: Storm Drainage Improvements
Supporting Documentation - Page 1

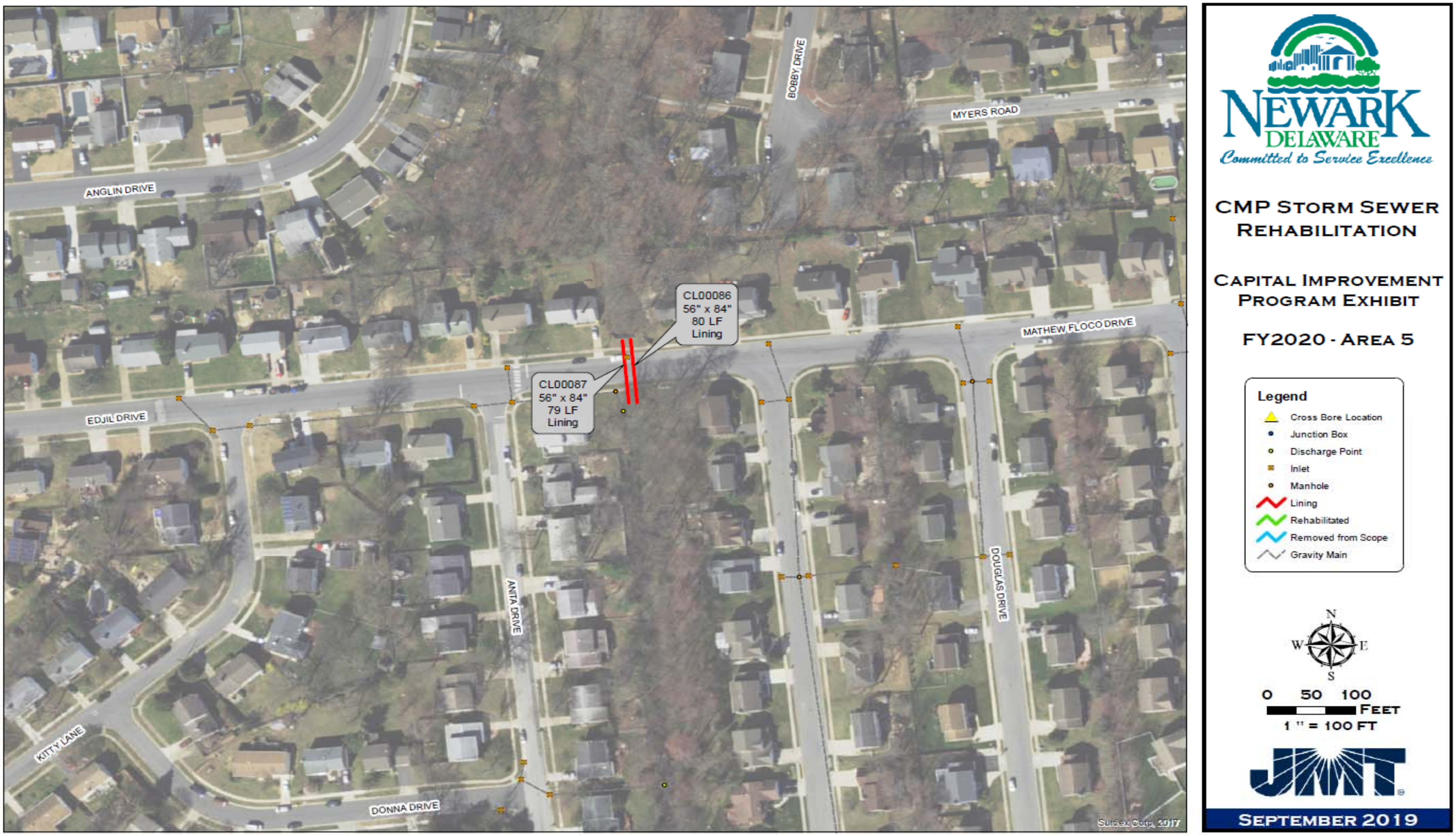
Q1301: Storm Drainage Improvements
Supporting Documentation - Page 2

Q1301: Storm Drainage Improvements
Supporting Documentation - Page 3



Q1301: Storm Drainage Improvements
Supporting Documentation - Page 4

Q1301: Storm Drainage Improvements
Supporting Documentation - Page 5



*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: Q0101

PROJECT TITLE: Stormwater Quality Improvements (NPDES Phase II Permit)

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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:	$ 321,628
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 71,628
% Complete (if underway):	22.3%
Balance to be funded[1]:	$ 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	ACCOUNT NUMBER	AMOUNT
Labor:		$ -
Materials:		$ -
Other Contracts:	5595506.9720	$ 250,000
TOTAL PROJECT COST		$ 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:

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 of 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 $1,000 per year per facility in maintenance costs.

2019 - Stormwater Management Pond Retrofit is underway at Abbottsford

Increased funding $10,000 per year to $50,000 due to rising design and construction costs. In order to realize benefits, we need to tackle larger facilities which we can gain economies of scale. Changed the name slightly to better reflect intent.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	50,000	50,000	50,000	50,000	50,000	$ 250,000
CAPITAL RESERVES	71,628	-	71,628	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 71,628	$ -	$ 71,628	$ -	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	1,000	2,000	3,000	4,000	5,000	$ 15,000

*Prior Authorized Balance includes 2019 carryover funding only.

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

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 30,000	$ -	$ -	$ 45,000	$ 250,000	$ 325,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 30,000	$ -	$ -	$ 45,000	$ 250,000	$ 325,000

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
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:	Perpetual
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	Various
Est. Total Cost:	$ 640,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 315,000
% Complete (if underway):	49.2%
Balance to be funded[1]:	$ 325,000

[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:	5595506.9623	$ 325,000
TOTAL PROJECT COST		$ 325,000

[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 reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	153,625	144,616	9,009	$ -	16,511	-	-	18,755	175,000	$ 210,266
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	161,375	161,375	-	$ -	13,489	-	-	26,245	75,000	$ 114,734
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 315,000	$ 305,991	$ 9,009	$ -	$ 30,000	$ -	$ -	$ 45,000	$ 250,000	$ 325,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
STORMWATER UTILITY

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
	STAFF VEHICLES														
212	2009 Ford Focus		04/03/09	13,489	57,046	80,000	8	2017	2020	13,489	30,000				
230	2007 Int'l SC7000 Sweeper- 4200 Int'l		10/18/16	75,000	13,084	60,000	8	2024	2024	75,000					250,000
231	2017 Tennant ATLV 4300 Litter Vacuum		11/14/17	43,993	--	--	8	2025	2025	43,993					
250	2006 Int'l 4700 Catch Basin Clnr	a.	12/22/05	161,375	79,732	60,000	8	2013	2019	161,375					
504	2012 Ford F250 Pickup Truck 4x4		09/21/12	26,245	59,621	110,000	10	2022	2023	26,245				45,000	
TOTAL STORMWATER UTILITY							**GROSS ACQUISITION COST**				**$ 30,000**	**$ -**	**$ -**	**$ 45,000**	**$ 250,000**
							LESS: USE OF CAPITAL RESERVES				-	-	-	-	-
							LESS: USE OF CURRENT RESOURCES				(16,511)	-	-	(18,755)	(175,000)
							NET EQUIPMENT SINKING FUND TOTAL				**$ 13,489**	**$ -**	**$ -**	**$ 26,245**	**$ 75,000**

a. This vehicle scheduled to be replaced in 2019.
* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

REFUSE DIVISION

GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Refuse Division

Summary:

REFUSE DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
OPERATING EXPENSES						
Personnel Services	$ 872,399	$ 931,668	$ 958,270	$ 995,002	$ 36,732	3.8%
Materials and Supplies	33,034	30,210	27,700	30,200	2,500	9.0%
Contractual Services	799,597	1,057,247	892,019	924,669	32,650	3.7%
Other Charges	207,346	215,937	228,761	219,625	(9,136)	-4.0%
Subtotal	$ 1,912,376	$ 2,235,062	$ 2,106,750	$ 2,169,496	$ 62,746	3.0%
Inter-Dept. Charges	96,633	83,086	104,320	102,412	(1,908)	-1.8%
Total Operating Expenses	**$ 2,009,009**	**$ 2,318,148**	**$ 2,211,070**	**$ 2,271,908**	**$ 60,838**	**2.8%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Refuse Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0141042	6240	Refuse Workers	$ 501,880	$ 496,251	$ 518,222	$ 512,031	$ (6,191)	-1.2%
0141042	6580	Service Award	13,370	14,084	14,987	15,573	586	3.9%
0141042	6590	Sick Pay	1,245	840	3,133	3,230	97	3.1%
0141042	6610	Seasonal	-	-	-	6,000	6,000	100.0%
0141042	6620	Overtime	13,138	20,666	17,500	15,000	(2,500)	-14.3%
0141042	6880	Uniform Allowance	5,300	5,350	5,400	4,800	(600)	-11.1%
0141042	6885	Device Reimbursement	-	3,000	2,450	2,700	250	10.2%
0141042	6920	Unemployment Comp. Ins.	3,325	2,643	2,376	2,712	336	14.1%
0141042	6930	Social Security Taxes	37,497	39,012	40,943	40,757	(186)	-0.5%
0141042	6940	City Pension Plan	86,591	97,473	111,550	135,748	24,198	21.7%
0141042	6941	Defined Contribution 401(a) Plan	8,413	10,319	11,300	11,207	(93)	-0.8%
0141042	6950	Term Life Insurance	2,133	2,412	2,518	2,489	(29)	-1.2%
0141042	6960	Group Hospitalization Ins.	153,021	176,372	187,158	195,484	8,326	4.4%
0141042	6961	Long-Term Disability Ins.	816	914	947	1,193	246	26.0%
0141042	6962	Dental Insurance	9,266	8,919	9,043	9,673	630	7.0%
0141042	6964	Health Savings Account	750	750	-	-	-	0.0%
0141042	6965	Post-Employment Benefits	30,931	48,093	24,800	30,371	5,571	22.5%
0141042	6966	Retirement Health Savings Account	3,503	4,137	4,200	4,263	63	1.5%
0141042	6967	Emergency Room Reimbursements	800	-	1,305	1,305	-	0.0%
0141042	6968	Vision Insurance Premiums	420	433	438	466	28	6.4%
TOTAL PERSONNEL SERVICES			**$ 872,399**	**$ 931,668**	**$ 958,270**	**$ 995,002**	**$ 36,732**	**3.8%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
REFUSE DIVISION

Title	Union Affiliation	Grade	2019 # of Positions	2019 Approved	2020 # of Positions	2020 Requested	Position Difference	$ Difference	% Change
FULL TIME POSITIONS									
Refuse Coordinator	AFSCME LOCAL 1670 F/T	10	1.0	$ 61,765	1.0	$ 63,702	0.0	$ 1,937	3.1%
Refuse Driver/Collector	AFSCME LOCAL 1670 F/T	8	4.0	$ 244,840	4.0	$ 244,860	0.0	$ 20	0.0%
Refuse Driver II	AFSCME LOCAL 1670 F/T	8	1.0	$ 61,210	1.0	$ 61,215	0.0	$ 5	0.0%
Refuse Driver I	AFSCME LOCAL 1670 F/T	6	1.0	$ 56,542	1.0	$ 56,546	0.0	$ 4	0.0%
Refuse Collector	AFSCME LOCAL 1670 F/T	3	1.0	$ 49,642	2.0	$ 85,708	1.0	$ 36,066	72.7%
Maintenance I	AFSCME LOCAL 1670 F/T	1	1.0	$ 44,223		$ -	(1.0)	$ (44,223)	-100.0%
Total Full-Time Positions			9.0	**$ 518,222**	9.0	**$ 512,031**	0.0	**$ (6,191)**	**-1.2%**
PART-TIME FUNDING									
Seasonal				$ -		$ 6,000		$ 6,000	100.0%
Total Part-Time Funding				**$ -**		**$ 6,000**		**$ 6,000**	**100.0%**
OTHER									
Service Award				$ 14,987		$ 15,573		$ 586	3.9%
Sick Pay				$ 3,133		$ 3,230		$ 97	3.1%
Overtime				$ 17,500		$ 15,000		$ (2,500)	-14.3%
Uniform Allowance				$ 5,400		$ 4,800		$ (600)	-11.1%
Device Reimbursements				$ 2,450		$ 2,700		$ 250	10.2%
Total Other				**$ 43,470**		**$ 41,303**		**$ (2,167)**	**-5.0%**
Total All			**9.0**	**$ 561,692**	**9.0**	**$ 559,334**	**0.0**	**$ (2,358)**	**-0.4%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Refuse Division

Expenditures:

MATERIALS AND SUPPLIES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0141043	7110 Safety Shoes and Supplies	$ 1,551	$ 1,696	$ 2,700	$ 2,700	$ -	0.0%
0141043	7130 Tools, Field Sup., & Small Eq.	1,297	1,364	1,500	1,000	(500)	-33.3%
0141043	7132 Collection Carts	27,557	27,150	21,000	25,000	4,000	19.0%
0141043	7191 Yard Waste	180	-	-	-	-	0.0%
0141043	7270 Station Maintenance	2,067	-	2,500	1,500	(1,000)	-40.0%
0141043	7462 Recycling Supplies	382	-	-	-	-	0.0%
TOTAL MATERIALS & SUPPLIES		**$ 33,034**	**$ 30,210**	**$ 27,700**	**$ 30,200**	**$ 2,500**	**9.0%**

CONTRACTUAL SERVICES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0141044	8030 Casualty Insurance	$ 9,850	$ 5,623	$ 6,735	$ 6,900	$ 165	2.4%
0141044	8032 Insurance - Auto	10,492	20,354	20,645	20,050	(595)	-2.9%
0141044	8033 Insurance - Broker	1,855	2,088	2,520	2,496	(24)	-1.0%
0141044	8035 Insurance - Worker's Compensation	-	-	-	25,500	25,500	100.0%
0141044	8050 Phone/Communications	2,552	-	550	-	(550)	-100.0%
0141044	8130 Building & Equipment Rentals	-	-	2,500	2,500	-	0.0%
0141044	8131 Information Technology Cont'l	879	80	347	347	-	0.0%
0141044	8190 Refuse Disposal-Landfill	426,636	471,956	457,000	463,000	6,000	1.3%
0141044	8191 Yard Waste	26,967	49,005	40,000	35,000	(5,000)	-12.5%
0141044	8200 Printing & Reproduction	1,584	1,029	1,000	2,000	1,000	100.0%
0141044	8250 Building & Grounds Maintenance	-	-	500	-	(500)	-100.0%
0141044	8270 Station Maintenance (Pest Control)	-	-	500	500	-	0.0%
0141044	8312 Fleet & Facilities Services	318,782	507,112	359,722	366,376	6,654	1.8%
TOTAL CONTRACTUAL SERVICES		**$ 799,597**	**$ 1,057,247**	**$ 892,019**	**$ 924,669**	**$ 32,650**	**3.7%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Refuse Division

Expenditures:

OTHER CHARGES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0141045	9060	Depreciation Expense	$ 206,539	$ 215,887	$ 228,011	$ 218,875	$ (9,136)	-4.0%
0141045	9070	Training & Continuing Educ/Conf	807	50	750	750	-	0.0%
TOTAL OTHER CHARGES			**$ 207,346**	**$ 215,937**	**$ 228,761**	**$ 219,625**	**$ (9,136)**	**-4.0%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Billings and Accounting	$ 22,045	$ 27,423	$ 26,328	$ 25,673	$ (655)	-2.5%
Electric Used - Transfer Station	811	827	783	728	(55)	-7.0%
Information Technology	48,741	48,209	53,073	51,023	(2,050)	-3.9%
Mailroom and Postage	-	7	1,129	1,313	184	16.3%
Other Indirect Charges	23,466	2,296	20,154	20,154	-	0.0%
Printing and Reproduction	113	105	153	153	-	0.0%
Records	-	1,477	1,610	1,653	43	2.7%
Warehousing	1,457	2,742	1,090	1,715	625	57.3%
TOTAL INTER-DEPT. CHARGES	**$ 96,633**	**$ 83,086**	**$ 104,320**	**$ 102,412**	**$ (1,908)**	**-1.8%**

OPERATING EXPENSES - REFUSE DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 2,009,009**	**$ 2,318,148**	**$ 2,211,070**	**$ 2,271,908**	**$ 60,838**	**2.8%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

STREET DIVISION

GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Street Division

Summary:

STREET DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
OPERATING EXPENSES						
Personnel Services	$ 796,131	$ 791,329	$ 749,434	$ 799,488	$ 50,054	6.7%
Materials and Supplies	158,955	156,134	143,300	152,000	8,700	6.1%
Contractual Services	229,400	509,637	296,172	315,983	19,811	6.7%
Other Charges	137,046	110,157	137,667	115,958	(21,709)	-15.8%
Subtotal	$ 1,321,532	$ 1,567,257	$ 1,326,573	$ 1,383,429	$ 56,856	4.3%
Inter-Dept. Charges	360,414	350,838	308,992	298,069	(10,923)	-3.5%
Total Operating Expenses	**$ 1,681,946**	**$ 1,918,095**	**$ 1,635,565**	**$ 1,681,498**	**$ 45,933**	**2.8%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Street Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131052	6020	Supervisory	$ 93,292	$ 62,348	$ 64,659	$ 69,898	$ 5,239	8.1%
0131052	6230	Maintenance Workers	357,836	341,159	333,362	337,189	3,827	1.1%
0131052	6580	Service Award	8,988	6,796	6,601	6,884	283	4.3%
0131052	6590	Sick Pay	2,385	1,376	2,470	3,228	758	30.7%
0131052	6610	Seasonal	22,796	29,742	33,000	39,000	6,000	18.2%
0131052	6620	Overtime	29,906	41,013	40,000	40,000	-	0.0%
0131052	6622	Holiday Premium	-	491	-	-	-	0.0%
0131052	6880	Uniform Allowance	4,280	4,040	3,840	3,840	-	0.0%
0131052	6885	Device Reimbursement	-	2,475	2,400	2,400	-	0.0%
0131052	6920	Unemployment Comp. Ins.	3,227	2,550	1,848	2,376	528	28.6%
0131052	6930	Social Security Taxes	34,176	34,241	36,183	37,235	1,052	2.9%
0131052	6940	City Pension Plan	77,828	92,937	73,900	91,889	17,989	24.3%
0131052	6941	Defined Contribution 401(a) Plan	6,256	10,065	11,373	11,638	265	2.3%
0131052	6950	Term Life Insurance	1,901	1,888	1,930	1,973	43	2.2%
0131052	6960	Group Hospitalization Ins.	112,685	109,524	108,489	117,715	9,226	8.5%
0131052	6961	Long-Term Disability Ins.	716	704	727	947	220	30.3%
0131052	6962	Dental Insurance	7,002	6,155	5,915	6,326	411	6.9%
0131052	6964	Health Savings Account	-	-	750	750	-	0.0%
0131052	6965	Post-Employment Benefits	28,462	39,574	16,430	20,558	4,128	25.1%
0131052	6966	Retirement Health Savings Account	2,405	3,891	4,200	4,263	63	1.5%
0131052	6967	Emergency Room Reimbursements	1,600	-	1,015	1,015	-	0.0%
0131052	6968	Vision Insurance Premiums	390	360	342	364	22	6.4%
TOTAL PERSONNEL SERVICES			**$ 796,131**	**$ 791,329**	**$ 749,434**	**$ 799,488**	**$ 50,054**	**6.7%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
STREET DIVISION

Title	Union Affiliation	Grade	2019 # of Positions	2019 Approved	2020 # of Positions	2020 Requested	Position Difference	$ Difference	% Change
FULL TIME POSITIONS									
PWWR Supervisor	MGMT	19	1.0	$ 64,659	1.0	$ 69,898	0.0	$ 5,239	8.1%
Heavy Equipment Mech/Operator	AFSCME LOCAL 1670 F/T	10	1.0	$ 61,765	1.0	$ 64,498	0.0	$ 2,733	4.4%
Maintenance IV	AFSCME LOCAL 1670 F/T	8	2.0	$ 122,420	2.0	$ 122,430	0.0	$ 10	0.0%
Maintenance I	AFSCME LOCAL 1670 F/T	5	1.0	$ 44,223		$ -	(1.0)	$ (44,223)	-100.0%
Equipment Operator	AFSCME LOCAL 1670 F/T	3	2.0	$ 104,954	3.0	$ 150,261	1.0	$ 45,307	43.2%
Total Full-Time Positions			7.0	**$ 398,021**	7.0	**$ 407,087**	0.0	**$ 9,066**	**2.3%**
PART-TIME FUNDING									
Seasonal				$ 33,000		$ 39,000		$ 6,000	18.2%
Total Part-Time Funding				**$ 33,000**		**$ 39,000**		**$ 6,000**	**18.2%**
OTHER									
Service Award				$ 6,601		$ 6,884		$ 283	4.3%
Sick Pay				$ 2,470		$ 3,228		$ 758	30.7%
Overtime				$ 40,000		$ 40,000		$ -	0.0%
Uniform Allowance				$ 3,840		$ 3,840		$ -	0.0%
Device Reimbursements				$ 2,400		$ 2,400		$ -	0.0%
Total Other				**$ 55,311**		**$ 56,352**		**$ 1,041**	**1.9%**
Total All			**7.0**	**$ 486,332**	**7.0**	**$ 502,439**	**0.0**	**$ 16,107**	**3.3%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Street Division

Expenditures:

MATERIALS AND SUPPLIES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131053	7110 Safety Shoes & Supplies	$ 2,679	$ 1,327	$ 3,500	$ 3,500	$ -	0.0%
0131053	7130 Tools, Field Sup., & Small Eq.	28,558	3,159	10,500	3,500	(7,000)	-66.7%
0131053	7340 Street Signs and Roadway Markings	26,480	25,622	28,000	30,000	2,000	7.1%
0131053	7380 Street Maintenance	30,044	44,582	60,000	65,000	5,000	8.3%
0131053	7400 Storm Sewer Maintenance	2,139	943	-	-	-	0.0%
0131053	7450 Salt, Sand, & Snow Removal	48,992	53,188	40,000	50,000	10,000	25.0%
0131053	7470 Curb & Gutter Maintenance	17,282	24,174	-	-	-	0.0%
0131053	7540 Inventory Adjustment	725	792	-	-	-	0.0%
0131053	7550 Miscellaneous Supplies	2,056	2,347	1,300	-	(1,300)	-100.0%
TOTAL MATERIALS & SUPPLIES		**$ 158,955**	**$ 156,134**	**$ 143,300**	**$ 152,000**	**$ 8,700**	**6.1%**

CONTRACTUAL SERVICES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131054	8030 Casualty Insurance	$ 11,606	$ 7,203	$ 7,275	$ 7,200	$ (75)	-1.0%
0131054	8031 Insurance - Property	2,703	4,992	4,230	4,370	140	3.3%
0131054	8032 Insurance - Auto	13,918	26,793	27,165	21,106	(6,059)	-22.3%
0131054	8033 Insurance - Broker	2,664	3,657	3,555	3,584	29	0.8%
0131054	8035 Insurance - Worker's Compensation	-	-	-	23,800	23,800	100.0%
0131054	8050 Phone/Communications	1,653	158	600	180	(420)	-70.0%
0131054	8130 Building & Equipment Rental	1,806	3,838	5,000	5,000	-	0.0%
0131054	8131 Information Technology Cont'l	2,255	4,641	5,219	4,987	(232)	-4.4%
0131054	8312 Fleet & Facilities Services	173,986	454,505	207,128	214,756	7,628	3.7%
0131054	8380 Street and Stormwater Maintenance	16,999	-	25,000	25,000	-	0.0%
0131054	8450 Salt, Sand & Snow Removal	-	3,441	10,000	5,000	(5,000)	-50.0%
0131054	8550 Misc. Contracted Services	1,810	409	1,000	1,000	-	0.0%
TOTAL CONTRACTUAL SERVICES		**$ 229,400**	**$ 509,637**	**$ 296,172**	**$ 315,983**	**$ 19,811**	**6.7%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Street Division

Expenditures:

OTHER CHARGES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131055	9060	Depreciation Expense	$ 136,222	$ 107,481	$ 135,167	$ 113,458	$ (21,709)	-16.1%
0131055	9070	Training & Continuing Educ/Conf	824	2,676	2,500	2,500	-	0.0%
TOTAL OTHER CHARGES			**$ 137,046**	**$ 110,157**	**$ 137,667**	**$ 115,958**	**$ (21,709)**	**-15.8%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Billings and Accounting	$ 26,921	$ 20,145	$ 19,347	$ 18,980	$ (367)	-1.9%
Electrcity Used	717	733	688	633	(55)	-8.0%
Information Technology	97,475	42,853	47,178	45,356	(1,822)	-3.9%
Mailroom and Postage	-	5	822	956	134	16.3%
Other Indirect Charges	89,339	113,344	94,245	94,245	-	0.0%
Printing and Reproduction	113	105	153	153	-	0.0%
Records	-	1,076	1,173	1,204	31	2.6%
Street Lights and Traffic Signals	143,745	169,331	143,812	134,512	(9,300)	-6.5%
Warehousing	2,104	3,246	1,574	2,030	456	29.0%
TOTAL INTER-DEPT. CHARGES	**$ 360,414**	**$ 350,838**	**$ 308,992**	**$ 298,069**	**$ (10,923)**	**-3.5%**

OPERATING EXPENSES - STREET DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 1,681,946**	**$ 1,918,095**	**$ 1,635,565**	**$ 1,681,498**	**$ 45,933**	**2.8%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

ENGINEERING DIVISION

GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Engineering Division

Summary:

ENGINEERING DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
OPERATING EXPENSES						
Personnel Services	$ 827,221	$ 918,674	$ 852,469	$ 893,795	$ 41,326	4.8%
Materials and Supplies	5,116	3,112	7,500	7,200	(300)	-4.0%
Contractual Services	103,069	79,911	117,498	141,579	24,081	20.5%
Other Charges	18,674	20,605	24,168	20,083	(4,085)	-16.9%
Subtotal	$ 954,080	$ 1,022,302	$ 1,001,635	$ 1,062,657	$ 61,022	6.1%
Inter-Dept. Charges	30,125	26,784	47,383	45,312	(2,071)	-4.4%
Total Operating Expenses	**$ 984,205**	**$ 1,049,086**	**$ 1,049,018**	**$ 1,107,969**	**$ 58,951**	**5.6%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Engineering Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131072	6020	Supervisory	$ 82,413	$ 84,315	$ 86,378	$ 88,264	$ 1,886	2.2%
0131072	6030	Engineering/Technical	253,170	234,853	231,442	181,658	(49,784)	-21.5%
0131072	6210	Inspectors	182,545	240,055	197,533	260,515	62,982	31.9%
0131072	6580	Service Award	5,648	5,691	6,169	6,832	663	10.7%
0131072	6590	Sick Pay	4,477	3,005	2,941	3,167	226	7.7%
0131072	6615	Interns	17,121	15,906	13,000	13,000	-	0.0%
0131072	6620	Overtime	24,011	30,289	20,000	20,000	-	0.0%
0131072	6622	Holiday Premium	423	-	-	-	-	0.0%
0131072	6880	Uniform Allowance	945	1,440	1,440	1,440	-	0.0%
0131072	6885	Device Reimbursement	-	600	600	600	-	0.0%
0131072	6920	Unemployment Comp. Ins.	3,459	2,775	1,979	2,452	473	23.9%
0131072	6930	Social Security Taxes	42,185	45,290	40,855	42,159	1,304	3.2%
0131072	6940	City Pension Plan	59,462	54,659	62,520	79,744	17,224	27.5%
0131072	6941	Defined Contribution 401(a) Plan	18,705	22,558	23,219	23,199	(20)	-0.1%
0131072	6950	Term Life Insurance	2,081	2,453	2,381	2,472	91	3.8%
0131072	6960	Group Hospitalization Ins.	97,631	136,497	132,298	134,136	1,838	1.4%
0131072	6961	Long-Term Disability Ins.	807	953	935	1,234	299	32.0%
0131072	6962	Dental Insurance	5,603	7,506	7,023	7,044	21	0.3%
0131072	6963	Flexible Spending Account	100	126	95	157	62	65.3%
0131072	6965	Post-Employment Benefits	21,068	22,987	13,900	17,841	3,941	28.4%
0131072	6966	Retirement Health Savings Account	5,071	6,315	6,300	6,395	95	1.5%
0131072	6967	Emergency Room Reimbursements	-	-	1,087	1,088	1	0.1%
0131072	6968	Vision Insurance Premiums	296	401	374	398	24	6.4%
TOTAL PERSONNEL SERVICES			**$ 827,221**	**$ 918,674**	**$ 852,469**	**$ 893,795**	**$ 41,326**	**4.8%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
ENGINEERING DIVISION

Title	Union Affiliation	Grade	2019 # of Positions		2019 Approved	2020 # of Positions		2020 Requested	Position Difference		$ Difference	% Change
FULL TIME POSITIONS												
Field Operations Superintendent	MGMT	22	1.0	$	86,378	1.0	$	88,264	0.0	$	1,886	2.2%
Planning and Design Engineer	MGMT	22	1.0	$	83,682	1.0	$	81,151	0.0	$	(2,531)	-3.0%
Engineering Technician II *	CWA F/T	17	1.0	$	30,269	1.0	$	32,105	0.0	$	1,836	6.1%
Chief Surveyor	CWA F/T	15	1.0	$	70,327	1.0	$	73,086	0.0	$	2,759	3.9%
Utility Inspector II	CWA F/T	16		$	-	1.0	$	71,533	1.0	$	71,533	100.0%
Utility Inspector I	CWA F/T	14	3.0	$	180,178	2.0	$	115,896	(1.0)	$	(64,282)	-35.7%
Engineering Technician	CWA F/T	14	1.0	$	64,519	1.0	$	68,402	0.0	$	3,883	6.0%
Total Full-Time Positions			8.0	**$**	**515,353**	8.0	**$**	**530,437**	0.0	**$**	**15,084**	**2.9%**
PART-TIME FUNDING												
Interns				$	13,000		$	13,000		$	-	0.0%
Total Part-Time Funding				**$**	**13,000**		**$**	**13,000**		**$**	**-**	**0.0%**
OTHER												
Service Award				$	6,169		$	6,832		$	663	10.7%
Sick Pay				$	2,941		$	3,167		$	226	7.7%
Overtime				$	20,000		$	20,000		$	-	0.0%
Uniform Allowance				$	1,440		$	1,440		$	-	0.0%
Device Reimbursements				$	600		$	600		$	-	0.0%
Total Other				**$**	**31,150**		**$**	**32,039**		**$**	**889**	**2.9%**
Total All			**8.0**	**$**	**559,503**	**8.0**	**$**	**575,476**	**0.0**	**$**	**15,973**	**2.9%**

* Please be advised that the Engineering Technician II position was partially funded through Capital in 2019 and is budgeted similarly in 2020.

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Engineering Division

Expenditures:

MATERIALS AND SUPPLIES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131073	7110 Safety Shoes & Supplies	$ 1,542	$ 550	$ 2,500	$ 2,400	$ (100)	-4.0%
0131073	7130 Tools, Field Sup., & Small Eq.	174	1,055	2,000	1,500	(500)	-25.0%
0131073	7150 Office Supplies	2,413	1,507	3,000	2,800	(200)	-6.7%
0131073	7160 Books, Periodicals, Etc.	-	-	-	500	500	100.0%
0131073	7550 Miscellaneous Supplies	987	-	-	-	-	0.0%
TOTAL MATERIALS & SUPPLIES		**$ 5,116**	**$ 3,112**	**$ 7,500**	**$ 7,200**	**$ (300)**	**-4.0%**

CONTRACTUAL SERVICES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131074	8020 Advertising	$ 860	$ 1,073	$ 1,100	$ 1,100	$ -	0.0%
0131074	8030 Casualty Insurance	5,319	9,300	12,010	12,000	(10)	-0.1%
0131074	8032 Insurance - Auto	3,319	6,233	6,520	6,332	(188)	-2.9%
0131074	8033 Insurance - Broker	714	1,583	965	960	(5)	-0.5%
0131074	8035 Insurance - Worker's Compensation	-	-	-	23,800	23,800	100.0%
0131074	8050 Phone/Communications	1,808	1,858	1,400	180	(1,220)	-87.1%
0131074	8120 Outside Engineering	47,802	26,550	47,600	50,000	2,400	5.0%
0131074	8131 Information Technology Cont'l	18,395	13,837	19,864	18,405	(1,459)	-7.3%
0131074	8312 Fleet & Facilities Services	24,314	19,472	28,039	28,802	763	2.7%
0131074	8550 Misc. Contracted Services	538	5	-	-	-	0.0%
TOTAL CONTRACTUAL SERVICES		**$ 103,069**	**$ 79,911**	**$ 117,498**	**$ 141,579**	**$ 24,081**	**20.5%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

General Fund - Public Works and Water Resources Department - Engineering Division

Expenditures:

OTHER CHARGES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
0131075	9020	Mileage & Small Bus. Expense	$ 1,589	$ 1,710	$ -	$ -	$ -	0.0%
0131075	9060	Depreciation Expense	11,859	11,960	15,168	11,083	(4,085)	-26.9%
0131075	9070	Training & Continuing Educ/Conf	5,226	6,935	9,000	9,000	-	0.0%
TOTAL OTHER CHARGES			**$ 18,674**	**$ 20,605**	**$ 24,168**	**$ 20,083**	**$ (4,085)**	**-16.9%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Billings and Accounting	$ 16,627	$ 18,239	$ 17,530	$ 17,302	$ (228)	-1.3%
Electricity Used	711	727	683	628	(55)	-8.1%
Information Technology	48,741	45,531	50,126	48,190	(1,936)	-3.9%
Mailroom and Postage	-	4	738	858	120	16.3%
Other Indirect Expenses	(36,067)	(38,788)	(22,900)	(22,900)	-	0.0%
Printing and Reproduction	113	105	153	153	-	0.0%
Records	-	966	1,053	1,081	28	2.7%
TOTAL INTER-DEPT. CHARGES	**$ 30,125**	**$ 26,784**	**$ 47,383**	**$ 45,312**	**$ (2,071)**	**-4.4%**

OPERATING EXPENSES - ENGINEERING DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 984,205**	**$ 1,049,086**	**$ 1,049,018**	**$ 1,107,969**	**$ 58,951**	**5.6%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

GENERAL FUND DIVISIONS:

REFUSE

STREET

ENGINEERING

CAPITAL IMPROVEMENTS PROGRAM

CITY OF NEWARK, DELAWARE
CAPITAL IMPROVEMENTS PROGRAM 2020-2024
(with current year amended budget)

GENERAL FUND - PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - REFUSE, STREET AND ENGINEERING DIVISIONS

F U N D I N G   S U M M A R Y

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 2,218,448	$ 2,567,736	$ 1,918,178	$ 2,582,441	$ 3,475,000	$ 12,761,803
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 2,218,448	$ 2,567,736	$ 1,918,178	$ 2,582,441	$ 3,475,000	$ 12,761,803

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NUMBER	PROJECT NAME	*	2019 BUDGET AS AMENDED	|----2020 RESERVES AND OTHER FUNDING	CURRENT FUNDING----|	2020	2021	2022	2023	2024	TOTAL
REQSF	Equipment Replacement Program	B	$ -	$ 151,775	$ 73,225	$ 225,000	$ 430,000	$ -	$ -	$ 1,200,000	$ 1,855,000
H2001	Annual Street Program	B	1,600,000	1,045,995	291,847	1,337,842	1,650,000	1,675,000	1,750,000	1,750,000	8,162,842
H2002	ADA Accessibility Transition Plan	C	153,150	156,395	3,211	159,606	159,736	163,178	166,441	175,000	823,961
H1903	Skid Steer Purchase	A	-	-	-	-	75,000	-	-	-	75,000
H1503	Newark Transportation Plan Implementation	A	20,000	-	300,000	300,000	20,000	20,000	20,000	-	360,000
HEQSF	Equipment Replacement Program	B	331,000	196,000	-	196,000	233,000	60,000	611,000	350,000	1,450,000
TEQSF	Equipment Replacement Program	B	75,000	-	-	-	-	-	35,000	-	35,000
	Total General Fund - Refuse, Street and Engineering Divisions		$ 2,179,150	$ 1,550,165	$ 668,283	$ 2,218,448	$ 2,567,736	$ 1,918,178	$ 2,582,441	$ 3,475,000	$ 12,761,803

PLANNED FINANCING SOURCES	2019	2020 Reserves and Other Funding	2020 Current Funding	2020	2021	2022	2023	2024	Total
GROSS CAPITAL IMPROVEMENTS	$ 2,179,150	$ 1,550,165	$ 668,283	$ 2,218,448	$ 2,567,736	$ 1,918,178	$ 2,582,441	$ 3,475,000	$ 12,761,803
LESS: USE OF RESERVES	(235,867)	(100,155)	-	(100,155)	(127,626)	(9,241)	(239,840)	(188,015)	(664,877)
VEHICLE & EQUIPMENT REPLACEMENT	(170,133)	(247,620)	-	(247,620)	(471,522)	(50,759)	(406,160)	(1,096,509)	(2,272,570)
GRANTS	(516,671)	(595,743)	-	(595,743)	(525,000)	(525,000)	(525,000)	(525,000)	(2,695,743)
BOND ISSUES	(228,150)	(456,647)	-	(456,647)	(134,736)	(138,178)	-	-	(729,561)
OTHER FINANCING SOURCES	(150,000)	(150,000)	-	(150,000)	(150,000)	(150,000)	(100,000)	(100,000)	(650,000)
NET CAPITAL IMPROVEMENTS	$ 878,329	$ -	$ 668,283	$ 668,283	$ 1,158,852	$ 1,045,000	$ 1,311,441	$ 1,565,476	$ 5,749,052

* Justification Codes:
A - Return on Investment
B - Public Safety
C - Community Health
D - Efficiency/Other

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: REQSF

PROJECT TITLE: Equipment Replacement Program

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 225,000	$ 430,000	$ -	$ -	$ 1,200,000	$ 1,855,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 225,000	$ 430,000	$ -	$ -	$ 1,200,000	$ 1,855,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
DIVISION:	Refuse
FUND:	General
PROJECT LOCATION:	Various
PROJECT PRIORITY:	1 - Highest Priority Level Project underway and must be completed
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:	Sustainable Community

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

Vehicle #423 (2009 International 7400 Rear Loader) - Was pushed back from 2019 to 2020. The vehicle can be retained and used in daily operations, however the maintenance costs related may increase as a result.

§ 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:	$ 1,855,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 1,855,000

[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	$ 1,855,000
TOTAL PROJECT COST		$ 1,855,000

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	73,225	63,852	-	-	265,476	$ 402,553
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	151,775	366,148	-	-	934,524	$ 1,452,447
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ 225,000	$ 430,000	$ -	$ -	$ 1,200,000	$ 1,855,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET — OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT, REFUSE DIVISION

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
	REFUSE COLLECTION														
409	2006 Int'l 7400 26CY One-Man Packer	b.	09/12/05	146,659	84,686	65,000	8	2013	--	146,659					
410	2015 Peterbuilt 320 Tractor/Trailer		11/30/14	285,690	42,022	65,000	8	2021	2021	285,690		250,000			
411	2016 Freightliner M2 Class 8		05/26/16	232,105	25,949	65,000	8	2024	2024	232,105					300,000
418	2018 Peterbuilt 348, 6x4 Chassis		02/07/18	193,963	3,392	65,000	8	2018	2026	193,963					
423	2009 Int'l 7400 Rear Loader	a.	06/11/09	151,775	75,894	85,000	8	2017	2019	151,775	225,000				
453	2016 Freightliner M2 Class 8		05/26/16	232,105	22,580	75,000	8	2024	2024	232,105					300,000
454	2016 Freightliner M2 Class 8		01/07/16	235,157	30,067	65,000	8	2024	2024	235,157					300,000
456	2016 Freightliner M2 Class 8		01/07/16	235,157	30,338	65,000	8	2024	2024	235,157					300,000
	SPECIAL COLLECTION														
440	2011 Freightliner Knuckleboom M2-106		06/17/11	116,148	35,660	100,000	10	2021	2021	116,148		180,000			
441	1997 Int'l Knuckleboom		12/31/96	67,190	109,718	--	--	--	--	67,190					
TOTAL REFUSE DIVISION							**GROSS ACQUISITION COST**				**$ 225,000**	**$ 430,000**	**$ -**	**$ -**	**$ 1,200,000**
							LESS: USE OF CAPITAL RESERVES				-			-	-
							LESS: USE OF CURRENT RESOURCES				(73,225)	(63,852)	-	-	(265,476)
							NET EQUIPMENT SINKING FUND TOTAL				**$ 151,775**	**$ 366,148**	**$ -**	**$ -**	**$ 934,524**

a. This vehicle scheduled to be replaced in 2019.

b. This vehicle will not be replaced.

* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

*Prior Authorized Balance includes 2019 carryover funding only.

		FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
PROJECT NO:	H2001	New Funding:	$ 1,337,842	$ 1,650,000	$ 1,675,000	$ 1,750,000	$ 1,750,000	$ 8,162,842
PROJECT TITLE:	Annual Street Program	*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
PROJECT STATUS:	Reoccurring (with no end date)	2020-2024 Funding:	**$ 1,337,842**	**$ 1,650,000**	**$ 1,675,000**	**$ 1,750,000**	**$ 1,750,000**	**$ 8,162,842**

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

REFERENDUM PROJECT

In 2018 we contracted with a consultant to utilize an optimization software to analyze our road survey data and update previous reports using the same software. 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.

Individual streets are chosen for rehabilitation based on several factors including the report mentioned above, coordination with other operating departments and PWWR divisions, recent development, and funding from legislators.

***Please note, capitalized personnel figures were included with the 2020 figure.**

§ 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:	$ 10,162,842
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 1,600,000
% Complete (if underway):	15.7%
Balance to be funded[1]:	$ 8,562,842

[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:	3063006.9820	$ 12,842
Materials:		$ -
Other Contracts:	3063006.9760	$ 8,550,000
TOTAL PROJECT COST		$ 8,562,842

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:		Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES		858,329	-	858,329	$ -	291,847	1,000,000	1,025,000	1,150,000	1,150,000	$ 4,616,847
CAPITAL RESERVES		-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT		-	-	-	$ -	-	-	-	-	-	$ -
GRANTS	MSA (Updated 2018)	491,671	2,306	489,365	$ -	570,743	500,000	500,000	500,000	500,000	$ 2,570,743
BOND ISSUES		100,000	-	100,000	$ -	325,252	-	-	-	-	$ 325,252
STATE REVOLVING LOAN		-	-	-	$ -	-	-	-	-	-	$ -
OTHER	CTF	150,000	-	150,000	$ -	150,000	150,000	150,000	100,000	100,000	$ 650,000
TOTAL:		**$ 1,600,000**	**$ 2,306**	**$ 1,597,694**	**$ -**	**$ 1,337,842**	**$ 1,650,000**	**$ 1,675,000**	**$ 1,750,000**	**$ 1,750,000**	**$ 8,162,842**

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: H2002

PROJECT TITLE: ADA Accessibility Transition Plan

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 159,606	$ 159,736	$ 163,178	$ 166,441	$ 175,000	$ 823,961
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 159,606	$ 159,736	$ 163,178	$ 166,441	$ 175,000	$ 823,961

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
DIVISION:	Street
FUND:	General
PROJECT LOCATION:	Various
PROJECT PRIORITY:	1 - Highest Priority Level Project underway and must be completed
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:	Inclusive Community

§ 806.1(3) SUMMARY OF PROJECT DATA	
First Year in Program:	2009
Est. Completion Date:	2026
Est. Useful Life (in years):	20
Est. Total Cost:	$ 952,111
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 128,150
% Complete (if underway):	13.5%
Balance to be funded[1]:	$ 823,961

[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:	3063006.9820	$ 3,211
Other Contracts:	1191196.9621	$ 131,320
Other Contracts:	3063006.9760	$ 689,430
TOTAL PROJECT COST		$ 823,961

[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.

As of July 1, 2019, the City of Newark Handicapped Ramp count is shown below:

- ADA Compliant Ramps – 1464
- Non-ADA Complaint Ramps – 310
- Total Ramps – 1774
- Locations that need ramps – 5

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. We would expect to be able to complete approximately 40 ramps in 2020 with similar funding levels.

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 requirements.

***Please note, capitalized personnel figures were included with the 2020 figure.**

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) **SOURCE OF FUNDS:**	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	3,211	-	-	141,441	150,000	$ 294,652
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS CDBG	-	-	-	$ -	25,000	25,000	25,000	25,000	25,000	$ 125,000
BOND ISSUES	128,150	-	128,150	$ -	131,395	134,736	138,178	-	-	$ 404,309
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 128,150	$ -	$ 128,150	$ -	$ 159,606	$ 159,736	$ 163,178	$ 166,441	$ 175,000	$ 823,961

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	**2020**	**2021**	**2022**	**2023**	**2024**	**TOTAL**
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: H1903

PROJECT TITLE: Skid Steer Purchase

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ 75,000	$ -	$ -	$ -	$ 75,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ 75,000	$ -	$ -	$ -	$ 75,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
DIVISION:	Street
FUND:	General
PROJECT LOCATION:	Field Operations Complex
PROJECT PRIORITY:	3 - Medium-High
The City would be taking 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):	N/A
Est. Total Cost:	$ 75,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 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	ACCOUNT NUMBER	AMOUNT
Labor:		$ -
Materials:	3063006.9622	$ 75,000
Other Contracts:		$ -
TOTAL PROJECT 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 Delaware 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

PWWR Typically spends $4,000 per year on a rental skid steer for various tasks.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	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 ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	750	750	750	$ 2,250

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: H1503

PROJECT TITLE: Newark Transportation Plan Implementation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 300,000	$ 20,000	$ 20,000	$ 20,000	$ -	$ 360,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 300,000	$ 20,000	$ 20,000	$ 20,000	$ -	$ 360,000

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
DIVISION:	Street
FUND:	General
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:	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:	$ 1,175,759
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 815,759
% Complete (if underway):	69.4%
Balance to be funded[1]:	$ 360,000

[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	$ 360,000
TOTAL PROJECT COST		$ 360,000

[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 scheduled 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.

Estimated $300,000 for additional Safe Routes To School upgrades for Downes School on Casho Mill Road. Council supported the item in 2019(Item 7B Minutes of April 22, 2019) Copied below for reference. Can be deleted when hearings are complete.

18. 7-B. RECOMMENDATION TO ENTER INTO AGREEMENT WITH DELDOT TO PARTIALLY FUNDTHE DOWNES ELEMENTARY SCHOOL SAFE ROUTES TO SCHOOL PROJECT____________4:21:40Mr. Filasky read the recommendation into the record and said City proposed to enter into agreement with DelDOT to cosponsor additional design and construction associated with the Downes Elementary Safe Routes to School Program. He clarified this would increase safety and promote awareness regarding alternative routes to school. Mr. Filasky said DelDOT had a $125,000 budget of federal funds, which triggered requirements in order to pay prevailing wage and other items. He announced the Citywould be a cosponsor of the project and needed to approve use of funds now that would not be spent until 2020 in order to move forward. Mr. Filasky thought a risk associated with spending the design money was if the City did not approve money for the actual construction. If this was the case, he said the striping work would be completed by DelDOT, regardless of whether the City put the concrete in or not. While Mr. Filasky emphasized the intent was to put the median and crosswalks in, he clarified it was still a viable project even if it was not funded in the 2020 budget. Mr. Filasky referenced the memo to Mayor and Council dated April 15, 2019 and read staff's recommendation for this matter.Mr. Clifton opened discussion to the table. Mr. Horning believed there was a growing concern from residents along the roads that entered onto Casho Mill Road. Since he moved into the Nottingham Green development in 2009, Mr. Horning observed a significant increase in traffic speed on the road. Mr. Horning believed residents would support the recommendation as it would improve the overall safety on that stretch of road. He thought this was an overarching concern for District 1 as a whole. Mr. Filasky said he was reasonably confident the proposed changes would improve safety in the area and would slow down traffic. Mr. Coleman announced one of the first goals of the project was to add enough features in the roadway to reduce the speed limit from 30 m.p.h. to 25 m.p.h. He reported there were statistically significant improvements in safety that substantiated reduction in speed from 30 m.p.h. to 25 m.p.h. Mr. Coleman believed the project was beneficial and thought staff overwhelmingly supported it. Mr. Filasky said the project was thoroughly reviewed and was approved through a consortium at Downes Elementary School. There was no public comment.

MOTION BY MS. WALLACE, SECONDED BY MR. HORNING: THAT MAYOR AND COUNCIL AUTHORIZE ENTERING INTO AN AGREEMENT WITH DELDOT AS COSPONSOR OF THE PLANNED DOWNES ELEMENTARY SAFE ROUTES TO SCHOOL PROJECT, FOR THE ENGINEERING DESIGN OF THE ABOVE REFERENCED ENHANCEMENTS IN THE AMOUNT OF $40,000 AND AUTHORIZE ADDITIONAL FUNDING OF UP TO $192,861 FOR THE CONSTRUCTION OF THE DOWNES ELEMENTARY SAFE ROUTES TO SCHOOL INFRASTRUCTURE IMPROVEMENTS. SHOULD THE BIDS FOR THE WORK ASSOCIATED WITH CITY'S SCOPE COME IN HIGHER THAN ESTIMATED AND OR INCLUDED IN THE APPROVED 2020 BUDGET, STAFF WILL WORK WITH DELDOT TO REVISE THE PROJECT SCOPE TO REMAIN UNDER THE BUDGET AMOUNT OR RETURN TO COUNCIL FOR APPROVAL.MOTION PASSED.
VOTE: 6 to 0. Aye – Clifton, Lawhorn, Hughes, Horning, Markham, Wallace.Nay – 0. Absent – Hamilton

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	20,000	-	20,000	$ -	300,000	20,000	20,000	20,000	-	$ 360,000
CAPITAL RESERVES	91,759	-	91,759	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER DelDOT	704,000	-	704,000	$ -	-	-	-	-	-	$ -
TOTAL:	$ 815,759	$ -	$ 815,759	$ -	$ 300,000	$ 20,000	$ 20,000	$ 20,000	$ -	$ 360,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

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

FUNDING SUMMARY:

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ 196,000	$ 233,000	$ 60,000	$ 611,000	$ 350,000	$ 1,450,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ 196,000	$ 233,000	$ 60,000	$ 611,000	$ 350,000	$ 1,450,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	PWWR
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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

§ 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:	$ 1,781,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 331,000
% Complete (if underway):	18.6%
Balance to be funded[1]:	$ 1,450,000

[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	$ 1,450,000
TOTAL PROJECT COST		$ 1,450,000

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	208,204	-	208,204	$ -	100,155	127,626	9,241	226,646	188,015	$ 651,683
EQUIPMENT REPLACEMENT	122,796	-	122,796	$ -	95,845	105,374	50,759	384,354	161,985	$ 798,317
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 331,000	$ -	$ 331,000	$ -	$ 196,000	$ 233,000	$ 60,000	$ 611,000	$ 350,000	$ 1,450,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET — OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT, STREET DIVISION

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
	FOREMAN'S TRUCK														
515	2013 Ford F150 Pickup 4x4		06/28/13	19,994	41,751	95,000	10	2023	2023	19,994				45,000	
	SIGNS & PAINTING														
551	2012 Ford F450 Stake Truck		01/20/12	50,759	51,632	100,500	8	2020	2022	50,759			60,000		
	DUMP TRUCKS														
522	2015 Ford F650		07/31/15	106,500	10,517	75,000	10	2025	2025	106,500					
523	2012 International 7400 SBA	c.	10/14/11	161,985	20,612	75,000	7	2018	2023	161,985				260,000	
528	2002 Int'l 4900 Dump Truck	a.	08/31/01	88,107	59,320	100,000	10	2011	2019	88,107					
542	2017 Ford F350 Super Duty/Dump Body		11/27/17	53,746	2,998	85,000	10	2027	2027	53,746					
550	2004 Int'l 7400 Dump Truck		11/21/03	95,845	64,995	75,000	10	2013	2020	95,845	196,000				
553	2013 Int'l 7400 Dump Truck/Swap Loader	e.	03/28/13	161,985	17,578	80,000	10	2023	2024	161,985					350,000
554	2004 Int'l 7400 Dump Truck		11/21/03	95,845	65,918	60,000	10	2013	2021	95,845		208,000			
	OTHER EQUIPMENT														
502	1984 Ingersoll Air Compressor		02/13/85	9,529	--	--	--	--	2021	9,529		25,000			
508	2000 Tarco Windy 400 Vac Leaf Loader	d.	12/15/00	35,200	--	--	--	--	--	-					
509	2001 Tarco Windy 400 Vac Leaf Loader	d.	07/13/01	35,200	--	--	--	--	--	-					
510	2000 Tarco Windy 400 Vac Leaf Loader	a.	02/20/98	34,689	--	--	12	2010	2019	34,689					
511	2013 Case 590 SM Loader/Backhoe 4x4		01/07/14	92,375	--	--	9	2023	2023	92,375				150,000	
525	2011 ODB Leaf Machine 20CY		10/14/11	55,000	--	--	7	2018	2023	55,000				78,000	
527	2013 ODB Leaf Loader 20CY		03/28/13	55,000	--	--	10	2023	2023	55,000				78,000	
531	2018 Case 621G Wheel Loader		06/01/18	165,031	--	--	10	2018	2028	165,031					
TOTAL STREET DIVISION								**GROSS ACQUISITION COST**			**$ 196,000**	**$ 233,000**	**$ 60,000**	**$ 611,000**	**$ 350,000**
								LESS: USE OF CAPITAL RESERVES			(100,155)	(127,626)	(9,241)	(226,646)	(188,015)
								LESS: USE OF CURRENT RESOURCES			-	-	-	-	-
								NET EQUIPMENT SINKING FUND TOTAL			**$ 95,845**	**$ 105,374**	**$ 50,759**	**$ 384,354**	**$ 161,985**

a. This vehicle scheduled to be replaced in 2019.
c. This vehicle is the first swaploader purchase. Old 523, a 1997 Int'l 4900, was renumbered 552 and retained as a backup vehicle.
d. This vehicle is the second swaploader- funds from 508 and 509 (not to be replaced) were used to purchase in 2013.
e. This vehicle will not be replaced - its replacement funds were used as part of the second swap loader replacement (vehicle 553)
* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

*Prior Authorized Balance includes 2019 carryover funding only.

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

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ -	$ -	$ 35,000	$ -	$ 35,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ -	$ -	$ 35,000	$ -	$ 35,000

CAPITAL BUDGET - PROJECT DETAIL	
DEPARTMENT:	PWWR
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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

§ 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 @ 12/31/2019 (if underway)[1]:	$ 75,000
% Complete (if underway):	68.2%
Balance to be funded[1]:	$ 35,000

[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	$ 35,000
TOTAL PROJECT COST		$ 35,000

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	27,663	12,833	14,830	$ -	-	-	-	13,194	-	$ 13,194
EQUIPMENT REPLACEMENT	47,337	47,337	-	$ -	-	-	-	21,806	-	$ 21,806
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 75,000	$ 60,170	$ 14,830	$ -	$ -	$ -	$ -	$ 35,000	$ -	$ 35,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT, ENGINEERING DIVISION

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
	STAFF VEHICLES														
714	2015 Ford F350 SD Pickup Truck		11/30/14	30,978	11,881	85,000	10	2025	2025	30,978					
735	2002 Dodge Ram 1500 Pickup Truck	a.	04/26/02	13,543	89,415	80,000	10	2012	2019	13,543					
	INSPECTORS														
700	2001 Jeep Cherokee 4x4	a.	03/16/01	18,814	57,752	65,000	10	2011	2019	18,814					
711	2003 Dodge Ram 1500 Pickup Truck	a.	09/13/02	14,980	63,970	52,000	10	2012	2019	14,980					
748	2017 Ford F150 Pickup Truck		08/04/17	20,832	4,789	60,000	10	2027	2027	20,832					
	SURVEY VAN														
746	2013 Ford Van Transit Connect		08/30/13	21,806	12,409	99,000	10	2023	2023	21,806				35,000	
TOTAL ENGINEERING DIVISION							**GROSS ACQUISITION COST**				**$ -**	**$ -**	**$ -**	**$ 35,000**	**$ -**
							LESS: USE OF CAPITAL RESERVES				-	-	-	(13,194)	-
							LESS: USE OF CURRENT RESOURCES				-	-	-	-	-
							NET EQUIPMENT SINKING FUND TOTAL				**$ -**	**$ -**	**$ -**	**$ 21,806**	**$ -**

a. This vehicle scheduled to be replaced in 2019.
* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

FLEET MAINTENANCE DIVISION

GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Maintenance Fund - Public Works and Water Resources Department - Fleet Maintenance Division

Summary:

FLEET MAINTENANCE DIVISION - SUMMARY	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
OPERATING EXPENSES						
Personnel Services	$ 440,560	$ 485,615	$ 488,539	$ 518,453	$ 29,914	6.1%
Materials and Supplies	592,886	655,746	606,000	586,150	(19,850)	-3.3%
Contractual Services	184,774	198,883	254,758	279,710	24,952	9.8%
Other Charges	16,512	29,370	43,491	31,317	(12,174)	-28.0%
Subtotal	$ 1,234,732	$ 1,369,614	$ 1,392,788	$ 1,415,630	$ 22,842	1.6%
Inter-Dept. Charges	53,335	68,899	59,372	57,292	(2,080)	-3.5%
Total Operating Expenses	**$ 1,288,067**	**$ 1,438,513**	**$ 1,452,160**	**$ 1,472,922**	**$ 20,762**	**1.4%**

Maintenance Fund - Public Works and Water Resources Department - Fleet Maintenance Division

Expenditures:

PERSONNEL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
6006002	6250	Mechanics	$ 258,579	$ 268,173	$ 279,376	$ 287,835	$ 8,459	3.0%
6006002	6580	Service Award	4,887	5,356	5,831	6,309	478	8.2%
6006002	6590	Sick Pay	4,334	4,308	4,844	5,279	435	9.0%
6006002	6620	Overtime	16,222	9,486	32,000	28,000	(4,000)	-12.5%
6006002	6880	Uniform Allowance	2,400	2,400	2,400	2,400	-	0.0%
6006002	6881	Tool Allowance	1,650	1,400	1,400	1,400	-	0.0%
6006002	6885	Device Reimbursement	-	1,500	950	1,500	550	57.9%
6006002	6920	Unemployment Comp. Ins.	1,342	1,124	1,056	1,342	286	27.1%
6006002	6930	Social Security Taxes	22,058	22,273	24,799	25,358	559	2.3%
6006002	6940	City Pension Plan	57,017	99,393	66,410	82,401	15,991	24.1%
6006002	6941	Defined Contribution 401(a) Plan	3,996	4,300	4,764	5,078	314	6.6%
6006002	6950	Term Life Insurance	1,187	1,286	1,339	1,369	30	2.2%
6006002	6960	Group Hospitalization Ins.	39,289	40,326	42,129	44,916	2,787	6.6%
6006002	6961	Long-Term Disability Ins.	448	486	510	665	155	30.4%
6006002	6962	Dental Insurance	2,450	2,316	2,338	2,502	164	7.0%
6006002	6964	Health Savings Account	1,500	1,500	1,500	1,500	-	0.0%
6006002	6965	Post-Employment Benefits	21,691	18,456	14,760	18,435	3,675	24.9%
6006002	6966	Retirement Health Savings Acct	1,358	1,380	1,400	1,421	21	1.5%
6006002	6967	Emergency Room Reimbursements	-	-	580	580	-	0.0%
6006002	6968	Vision Insurance Premiums	152	152	153	163	10	6.5%
TOTAL PERSONNEL SERVICES			**$ 440,560**	**$ 485,615**	**$ 488,539**	**$ 518,453**	**$ 29,914**	**6.1%**

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT
WAGE AND SALARY BUDGET - 2020
FLEET MAINTENANCE DIVISION

Title	Union Affiliation	Grade	2019 # of Positions	2019 Approved	2020 # of Positions	2020 Requested	Position Difference	$ Difference	% Change
FULL TIME POSITIONS									
Senior Mechanic II	AFSCME LOCAL 3919 F/T	15	1.0	$ 77,290	1.0	$ 78,818	0.0	$ 1,528	2.0%
Senior Mechanic	AFSCME LOCAL 3919 F/T	13	1.0	$ 71,201	1.0	$ 72,605	0.0	$ 1,404	2.0%
Mechanic II	AFSCME LOCAL 3919 F/T	11	2.0	$ 130,885	2.0	$ 136,412	0.0	$ 5,527	4.2%
Total Full-Time Positions			4.0	**$ 279,376**	4.0	**$ 287,835**	0.0	**$ 8,459**	**3.0%**
OTHER									
Service Award				$ 5,831		$ 6,309		$ 478	8.2%
Sick Pay				$ 4,844		$ 5,279		$ 435	9.0%
Overtime				$ 32,000		$ 28,000		$ (4,000)	-12.5%
Uniform Allowance				$ 2,400		$ 2,400		$ -	0.0%
Tool Allowance				$ 1,400		$ 1,400		$ -	0.0%
Device Reimbursements				$ 950		$ 1,500		$ 550	57.9%
Total Other				**$ 47,425**		**$ 44,888**		**$ (2,537)**	**-5.3%**
Total All			**4.0**	**$ 326,801**	**4.0**	**$ 332,723**	**0.0**	**$ 5,922**	**1.8%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Maintenance Fund - Public Works and Water Resources Department - Fleet Maintenance Division

Expenditures:

MATERIALS AND SUPPLIES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
6006003	7020	Heating Fuel	$ 858	$ -	$ -	$ -	$ -	0.0%
6006003	7060	Tire & Tire Repair Expense	69,351	87,445	65,000	65,000	-	0.0%
6006003	7070	Gasoline, Oil, Coolant, Etc.	319,010	352,846	355,000	335,000	(20,000)	-5.6%
6006003	7110	Safety Shoes & Supplies	1,377	1,296	1,200	1,200	-	0.0%
6006003	7130	Tools, Field Sup., & Small Eq.	7,029	6,869	7,500	7,500	-	0.0%
6006003	7150	Office Supplies	152	440	300	450	150	50.0%
6006003	7250	Buildings and Grounds Maint.	521	-	-	-	-	0.0%
6006003	7300	Machinery & Equip. Maintenance	-	3,460	2,000	2,000	-	0.0%
6006003	7310	Vehicle Maintenance	194,588	203,390	175,000	175,000	-	0.0%
TOTAL MATERIALS & SUPPLIES			**$ 592,886**	**$ 655,746**	**$ 606,000**	**$ 586,150**	**$ (19,850)**	**-3.3%**

CONTRACTUAL SERVICES			2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
6006004	8030	Casualty Insurance	$ 6,173	$ 6,049	$ 8,000	$ 8,100	$ 100	1.3%
6006004	8031	Insurance - Property	32,065	50,670	46,960	48,070	1,110	2.4%
6006004	8032	Insurance - Auto	1,713	3,922	3,260	4,221	961	29.5%
6006004	8033	Insurance - Broker	3,663	5,191	5,420	5,440	20	0.4%
6006004	8035	Insurance - Worker's Compensation	-	-	-	14,450	14,450	100.0%
6006004	8050	Phone/Communications	1,476	158	1,150	180	(970)	-84.3%
6006004	8131	Information Technology Cont'l	8,160	5,824	7,142	8,242	1,100	15.4%
6006004	8300	Machinery & Equip. Maintenance	-	242	1,000	1,000	-	0.0%
6006004	8310	Vehicle Maintenance	82,515	117,632	100,000	100,000	-	0.0%
6006004	8311	Vehicle Accidents	2,444	9,082	4,500	4,500	-	0.0%
6006004	8312	Fleet & Facilities Services	46,250	-	77,326	85,507	8,181	10.6%
6006004	8550	Misc. Contracted Services	315	113	-	-	-	0.0%
TOTAL CONTRACTUAL SERVICES			**$ 184,774**	**$ 198,883**	**$ 254,758**	**$ 279,710**	**$ 24,952**	**9.8%**

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

Maintenance Fund - Public Works and Water Resources Department - Fleet Maintenance Division

Expenditures:

OTHER CHARGES		2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
6006005	9020 Mileage & Small Bus. Expense	$ -	$ 11	$ 200	$ 200	$ -	0.0%
6006005	9060 Depreciation Expense	14,661	28,156	40,791	28,617	(12,174)	-29.8%
6006005	9070 Training & Continuing Educ/Conf	1,851	1,203	2,500	2,500	-	0.0%
TOTAL OTHER CHARGES		**$ 16,512**	**$ 29,370**	**$ 43,491**	**$ 31,317**	**$ (12,174)**	**-28.0%**

INTER-DEPT. CHARGES	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
Billings and Accounting	$ 13,447	$ 15,687	$ 15,052	$ 14,583	$ (469)	-3.1%
Electricity	9,110	12,640	8,758	8,058	(700)	-8.0%
Information Technology	21,663	21,426	23,589	22,678	(911)	-3.9%
Other Indirect Charges	9,115	19,146	11,973	11,973	-	0.0%
TOTAL INTER-DEPT. CHARGES	**$ 53,335**	**$ 68,899**	**$ 59,372**	**$ 57,292**	**$ (2,080)**	**-3.5%**

OPERATING EXPENSES - FLEET MAINTENANCE DIVISION	2017 ACTUAL	2018 ACTUAL	2019 BUDGET AS AMENDED	2020 BUDGET	$ DIFFERENCE FROM 2019-20	% DIFFERENCE FROM 2019-20
TOTAL OPERATING EXPENSES	**$ 1,288,067**	**$ 1,438,513**	**$ 1,452,160**	**$ 1,472,922**	**$ 20,762**	**1.4%**

NEWARK
DELAWARE
Committed to Service Excellence

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

FLEET MAINTENANCE DIVISION

CAPITAL IMPROVEMENTS PROGRAM

CITY OF NEWARK, DELAWARE
CAPITAL IMPROVEMENTS PROGRAM 2020-2024
(with current year amended budget)

MAINTENANCE FUND - PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - FLEET MAINTENANCE DIVISION

FUNDING SUMMARY

	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NUMBER	PROJECT NAME	*	2019 BUDGET AS AMENDED	|----2020----| RESERVES AND OTHER FUNDING	CURRENT FUNDING	2020	2021	2022	2023	2024	TOTAL
MEQSF	Equipment Replacement Program	B	$ 40,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Total Maintenance Fund - Fleet Maintenance Division		$ 40,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PLANNED FINANCING SOURCES											
	GROSS CAPITAL IMPROVEMENTS		$ 40,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	LESS: USE OF RESERVES		(22,195)	-	-	-	-	-	-	-	-
	VEHICLE & EQUIPMENT REPLACEMENT		(17,805)	-	-	-	-	-	-	-	-
	GRANTS		-	-	-	-	-	-	-	-	-
	BOND ISSUES		-	-	-	-	-	-	-	-	-
	OTHER FINANCING SOURCES		-	-	-	-	-	-	-	-	-
	NET CAPITAL IMPROVEMENTS		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

* Justification Codes:
A - Return on Investment
B - Public Safety
C - Community Health
D - Efficiency/Other

*Prior Authorized Balance includes 2019 carryover funding only.

PROJECT NO: MEQSF

PROJECT TITLE: Equipment Replacement Program

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:	2020	2021	2022	2023	2024	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2020-2024 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

§ 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:	$ 40,000
Est. Spend @ 12/31/2019 (if underway)[1]:	$ 40,000
% Complete (if underway):	100.0%
Balance to be funded[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	AMOUNT
Labor:		$ -
Materials:		$ -
Other Contracts:		$ -
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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/19	Estimated Expenditures 04/01/19 - 12/31/19	Estimated Authorized Balance[2] 12/31/19	2020	2021	2022	2023	2024	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	22,195	22,164	31	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	17,805	17,805	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 40,000	$ 39,969	$ 31	$ -	$ -	$ -	$ -	$ -	$ -	$ -

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2020	2021	2022	2023	2024	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
MAINTENANCE FUND (FLEET MAINTENANCE AND FACILITIES MAINTENANCE DIVISIONS)

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	MILEAGE AS OF 7/31/2019	RECOM'D MILEAGE AT REPL	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2020	2021	2022	2023	2024
FLEET MAINTENANCE DIVISION:															
650	2006 Ford F350 Pickup Truck	a.	01/19/06	17,805	58,349	89,000	10	2016	2019	17,805					
652	2016 Ford F350 Super Duty Pickup Truck		11/05/15	35,388	11,087	75,000	10	2026	2026	35,388					
TOTAL FLEET MAINTENANCE DIVISION											-	-	-	-	-
FACILITIES MAINTENANCE DIVISION:															
841	2004 Ford E250 Van		07/08/04	14,196	61,589	64,000	12	2016	2021	14,196		35,000			
842	2016 Ford F250 Pickup Truck 4x4		01/22/16	23,535	6,747	70,000	12	2028	2028	23,535					
TOTAL FACILITIES MAINTENANCE DIVISION											-	35,000	-	-	-
TOTAL MAINTENANCE FUND							**GROSS ACQUISITION COST**				**$ -**	**$ 35,000**	**$ -**	**$ -**	**$ -**
							LESS: USE OF CAPITAL RESERVES				-	(20,804)	-	-	-
							LESS: USE OF CURRENT RESOURCES				-	-	-	-	-
							NET EQUIPMENT SINKING FUND TOTAL				**$ -**	**$ 14,196**	**$ -**	**$ -**	**$ -**

a. This vehicle scheduled to be replaced in 2019.
* Please note, the mileage figures on this sheet have not been updated at this time from 2019.

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT

APPENDICES

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - WATER DIVISION
APPENDIX A - OBJECT CODE 7131 AND 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - WATER DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
7131	Honeywell - Equipment	One Time	-	1,260.50	1,260.50	New handheld equipment for Meter and Module Programming
8131	AutoDesk (Civil 3D) - 3 licenses	Annual	3,150.00	3,150.00	-	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131	Comcast / Verizon South Chapel St South Well Field (SWF)	Monthly	1,357.62	1,357.62	-	Internet Connection
8131	Crystal Reports Server Annual Maintenance	Annual	1,500.00	1,500.00	-	Report Generation Software (SCADA)
8131	Elster License Fee (SLA) Tropos Software Maintenance	Annual	17,500.00	17,500.00	-	Smart-Meter System (Wireless Infrastructure)
8131	Elster Software Maintenance - EAMS	Annual	6,500.00	6,500.00	-	Smart-Meter System (Radio Infrastructure)
8131	Elster Upgrade	One Time	10,500.00	-	(10,500.00)	Smart-Meter System (Radio Infrastructure) - Required Upgrade
8131	Esri Small Government ELA	Annual	2,500.00	2,500.00	-	GIS Server, Client, Cloud Licensing
8131	FieldSense Application & Implementation	One Time	-	3,360.75	3,360.75	-
8131	FieldSense Maintenance	Annual	-	875.00	875.00	-
8131	Harris - Smartworks - Oracle Database Tuning	Annual	4,100.00	4,400.00	300.00	Smart Meter System - Proactive Oracle Database Maintenance
8131	Harris - Smartworks Software Maintenance	Annual	6,375.00	6,800.00	425.00	Smart-Meter System (Middleware)
8131	Harris - NorthStar Annual Maintenance	Annual	12,300.00	13,100.00	800.00	Utility Billing Software (including Smart-Meter System)
8131	Oracle Software Subscription Renewal (Not Harris)	Annual	1,250.00	1,250.00	-	Smart Meter - Oracle Database Software License
8131	Redhat Software Maintenance	Annual	625.00	550.00	(75.00)	Smart Meter - Linux Operating System for Servers
8131	Win911	Annual	600.00	600.00	-	Schneider Electric - Clearscada Development Software Maintenance
8131	Schneider Electric - ClearScada Annual Maintenance (ACS)	Annual	2,000.00	3,500.00	1,500.00	ClearScada, Win911, Kepware
8131	Tyler Technologies Munis Annual Maintenance	Annual	2,972.80	2,825.24	(147.56)	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131	Verizon - Cellular/Data	Monthly	5,800.00	10,735.00	4,935.00	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription	Monthly	2,083.33	2,083.33	-	VOIP Phone System
	7131 and 8131 Subtotals:		*81,113.75*	*83,847.44*	*2,733.69*	
			$ 81,114.00	**$ 83,847.00**	**$ 2,734.00**	

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - SEWER DIVISION
APPENDIX A - OBJECT CODE 7131 AND 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - SEWER DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
7131	Honeywell - Equipment	One Time	-	1,260.50	1,260.50	New handheld equipment for Meter and Module Programming
8131	AutoDesk (Civil 3D) - 3 licenses	Annual	3,150.00	3,150.00	-	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131	Elster License Fee (SLA) Tropos Software Maintenance	Annual	17,500.00	17,500.00	-	Smart-Meter System (Wireless Infrastructure)
8131	Elster Software Maintenance - EAMS	Annual	6,500.00	6,500.00	-	Smart-Meter System (Radio Infrastructure)
8131	Elster Upgrade	One Time	10,500.00	-	(10,500.00)	Smart-Meter System (Radio Infrastructure) - Required Upgrade
8131	Esri Small Government ELA	Annual	2,500.00	2,500.00	-	GIS Server, Client, Cloud Licensing
8131	FieldSense Application & Implementation	One Time	-	3,360.75	3,360.75	-
8131	FieldSense Maintenance	Annual	-	875.00	875.00	-
8131	Harris - Smartworks - Oracle Database Tuning	Annual	4,100.00	4,400.00	300.00	Smart Meter System - Proactive Oracle Database Maintenance
8131	Harris - Smartworks Software Maintenance	Annual	6,375.00	6,800.00	425.00	Smart-Meter System (Middleware)
8131	Harris - NorthStar Annual Maintenance	Annual	12,300.00	13,100.00	800.00	Utility Billing Software (including Smart-Meter System)
8131	Oracle Software Subscription Renewal (Not Harris)	Annual	1,250.00	1,250.00	-	Smart Meter - Oracle Database Software License
8131	Redhat Software Maintenance	Annual	625.00	550.00	(75.00)	Smart Meter - Linux Operating System for Servers
8131	Tyler Technologies Munis Annual Maintenance	Annual	2,885.37	2,742.15	(143.22)	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131	Verizon - Cellular/Data	Monthly	3,400.00	965.00	(2,435.00)	Computer Mobile Internet Connectivity
	7131 and 8131 Subtotals:		*71,085.37*	*64,953.40*	*(6,131.97)*	
			$ 71,085.00	**$ 64,953.00**	**$ (6,132.00)**	

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STORMWATER DIVISION
APPENDIX A - OBJECT CODE 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STORMWATER DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
8131	AutoDesk (Civil 3D) - 3 licenses	Annual	3,150.00	3,150.00	-	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131	Harris - NorthStar Annual Maintenance	Annual	12,300.00	13,100.00	800.00	Utility Billing Software (including Smart-Meter System)
8131	Tyler Technologies Munis Annual Maintenance	Annual	2,885.37	2,742.15	(143.22)	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131	Verizon - Cellular/Data	Monthly	1,000.00	965.00	(35.00)	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription	Monthly	347.22	347.22	-	VOIP Phone System
	8131 Subtotal:		*19,682.59*	*20,304.37*	*621.78*	
			$ 19,683.00	**$ 20,304.00**	**$ 622.00**	

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - REFUSE DIVISION
APPENDIX A - OBJECT CODE 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - REFUSE DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
8131	VOIP Networks - Cloud9 VOIP Subscription	Monthly	347.22	347.22	-	VOIP Phone System
	8131 Subtotal:		*347.22*	*347.22*	*-*	
			$ 347.00	**$ 347.00**	**$ -**	

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STREET DIVISION
APPENDIX A - OBJECT CODE 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - STREET DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
8131	Tyler Technologies Munis Annual Maintenance	Annual	4,371.77	4,154.77	(217.00)	Computer Mobile Internet Connectivity
8131	Verizon - Cellular/Data	Monthly	500.00	485.00	(15.00)	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription	Monthly	347.22	347.22	-	VOIP Phone System
	8131 Subtotal:		*5,218.99*	*4,986.99*	*(232.00)*	
			$ 5,219.00	**$ 4,987.00**	**$ (232.00)**	

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - ENGINEERING DIVISION
APPENDIX A - OBJECT CODE 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - ENGINEERING DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
8131	AutoTurn	Annual	2,610.00	470.00	(2,140.00)	Engineering software to truck turn around design and planning
8131	Bluebeam Revu	Annual	300.00	450.00	150.00	PDF Based Engineering Eeview and Collaboration Software Maintenance
8131	Bluebeam Revu	Annual	-	500.00	500.00	PDF Based Engineering Eeview and Collaboration Software (Purchase Additional License)
8131	Esri Small Government ELA	Annual	2,500.00	2,500.00	-	GIS Server, Client, Cloud Licensing
8131	Hydrocad	Annual	600.00	200.00	(400.00)	Stormwater Modeling Software
8131	Tyler Technologies Munis Annual Maintenance	Annual	4,371.77	4,154.77	(217.00)	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131	Verizon - Cellular/Data	Monthly	3,400.00	5,360.00	1,960.00	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription	Monthly	3,472.22	3,472.22	-	VOIP Phone System
8131	Canon Financial - Copier Lease	Monthly	1,311.75	-	(1,311.75)	Canon Copier Leases
8131	HP T2530PS - Plotter (48 month)	Year 3 of 4	1,298.28	1,298.28	-	Wide Format Plotter and Scanner
	8131 Subtotal:		*19,864.02*	*18,405.27*	*(1,458.75)*	
			$ 19,864.00	**$ 18,405.00**	**$ (1,459.00)**	

CITY OF NEWARK, DELAWARE
PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - FLEET MAINTENANCE DIVISION
APPENDIX A - OBJECT CODE 8131 - (2019 AND 2020 BUDGET COMPARISON)

PUBLIC WORKS AND WATER RESOURCES DEPARTMENT - FLEET MAINTENANCE DIVISION

Code	2020 IT Annual Operating Expense	Renewal	2019 Budget	2020 Budget	+/- Prior Year	Description
8131	Cummins Insite Lite Registration	Annual	500.00	1,000.00	500.00	Large Truck Diagnostic Software
8131	Cummins Quick Serve	Annual	450.00	450.00	-	Large Truck Diagnostic Software
8131	International Servicemaxx Fleet Pro Software	Annual	650.00	650.00	-	Large Truck Diagnostic Software
8131	ShopKey Software Renewal	Annual	3,300.00	3,700.00	400.00	ShopKey Vehicle Maintenance Software Renewal
8131	Snap On Modis Ultra Handheld Scanner Software	Annual	1,200.00	1,400.00	200.00	Snap-On Vehicle Diagnostic Handheld Scanner Software
8131	VOIP Networks - Cloud9 VOIP Subscription	Monthly	1,041.67	1,041.67	-	VOIP Phone System
	8131 Subtotal:		*7,141.67*	*8,241.67*	*1,100.00*	
			$ 7,142.00	**$ 8,242.00**	**$ 1,100.00**	