2024 – 25 Operating and Capital Plans

May 22, 2024

The 2024-25 Operating Plan presented to you for your consideration reflects an annual revenue requirement of $25,776,600. This level represents a $415,000 annual increase in revenues which equates to an overall 1.66% increase in rates charged customers. The resulting debt service coverage for all outstanding bonds is 1.40 times.

The 1.66% increase to rates is impacted by costs associated with wellhead treatment for wells impacted by new NYS and Federal regulations pertaining to emerging contaminants, decreased historical seven year trend in customer consumption, high cost increases to materials and supplies, laboratory testing, power, chemicals, paving, permits, fuel costs and the significant increase of general inflation. The costs for removing 1,4-dioxane and PFA's from the raw water supply include debt service charges for the Series 2021 Green Bond issuance and operating costs for GAC media replacements, AOP materials, power, chemicals and increased levels of laboratory testing. The rate increase will be applied evenly to Residential, Commercial, Public Fire and Private fire protection customers.

The seven year trend in average annual consumption was 100,000 gallons per residential customer in fiscal year 2023. The average annual commercial customer consumption in fiscal year 2023 was 445,000 gallons. The net result is a decrease in residential revenues of $155,180 and a decrease in commercial revenues of $174,440 forecast based on the seven year consumption trend.

The average annual residential bill will change from $629 to $640 in the 2024-25 fiscal year. The average annual commercial bill will change from $2,711 to $2,756 in the 2024-25 fiscal year.

Public fire hydrant rates will change from $1,344 to $1,368 per hydrant.

Details of the 2024-25 Capital Plan with descriptions have been submitted for your consideration in the amount of $35,241,062 for the upcoming fiscal year. The five year capital plan amounts to $135,991,975 and is derived from the independent ten year Master Plan performed by H2M Group as adjusted to address the costly wellhead treatment process to remove 1,4 – Dioxane and PFOA contamination from the raw water supply. The Water Authority continues to make strong progress addressing emerging contamination over the last year with the completion of Station 57-Wells 57

& 57A (New Hyde Park) wellhead treatment system. Station 40 wellhead treatment project has been awarded and is expected to begin during the late Summer period. Station 44 (permanent phase), impacting four wells is awarded and work has just started. In addition the Water Authority has been successful in receiving a total of $44,430,200 in NYS Water Infrastructure Improvement (WIIA) grants to somewhat offset the costs of new emerging contaminant wellhead systems. These grants will support the cost to complete new wellhead treatment installation at the wells impacted by emerging contaminants. With the announcement of new Federal regulation regarding Lead/Copper rule and allowable PFA levels the Water Authority will be incurring significant additional capital costs over the next two years. These costs will be incurred at our Station 15 wells (5) which had recently been renovated for VOC contaminants but must now add GAC treatment for the removal of PFAs in order to remain in compliance. These additional costs will require another Revenue bond issuance of $50 million in July 2027.

OPERATING REVENUES

Operating Revenues (before rate change) — Total Forecast $25,361,600

The total estimated operating revenues included in the Operating Plan for the fiscal year June 1, 2024 to May 31, 2025, before any rate change, consists of the following:

Residential Water Revenue — Forecast $16,997,800

Residential water revenue was calculated by using a 7-year average annual usage of 100,000 gallons (1% decrease) and applying that to our existing residential customer base of 26,435 customers (a decrease of 1 customer from last year). The resulting gallons were then priced out using our existing rate structure with the latest usage pattern. The net result was a decrease in residential water revenue of $155,180 (.90%).

Commercial Water Revenue — Forecast $4,463,800

Commercial water revenue was calculated by using a 7-year average annual usage of 445,000 gallons representing a decrease of 12,000 gallons per customer (2.63% decrease) and applying that to our existing commercial customer base of 1,443 customers (an increase of 1 customer from last year). The resulting gallons were then priced out using our existing rate structure and latest usage pattern. The net result was a decrease of $174,440 (3.76%) in commercial water revenue.

Public Hydrants — Forecast $3,290,200

The public hydrant revenue was calculated by applying the number of hydrants in service (2,448 including 15 at the UBS Arena Complex) to our existing tariff rate.

Private Sprinklers — Forecast $260,400

Private sprinkler revenue was calculated by taking the existing 217 customers by meter size and applying the existing tariff rates.

Late Payment Charges — Forecast $63,700

Late payment charges were calculated by taking the most recent history and applying that rate to water sales revenue.

Other Water Revenue — Forecast $285,700

Other water revenue, which consists mainly of turn on fees, miscellaneous water charges and return check charges, was calculated based on prior 2 years of experience.

Rate Assistance

The projected revenues and expenses in this Plan, based on a Debt Coverage Ratio of 1.40, would require the Water Authority to raise rates by $400,000 or 1.6% for the new fiscal year. This increase is due to the increase in Operations and Maintenance expenses $44,990, the decrease in revenue $357,130 offset by a decrease in Debt Service Costs ($2,120).

OPERATION & MAINTENANCE EXPENSES

Salaries — Total Expense

The estimated total cost of wages included in this Plan is $5,213,960 of which $4,445,540 (85.3%) is charged to Operation and Maintenance Expense. Currently, the Water Authority payroll consists of 46 full-time and 4 part-time employees. The salary forecast includes: anniversary increases under the amended, proposed 10-year step schedule salary plan, (Schedules II and III of the Salary Schedule only) as well as overtime, Sunday premium, substitute and on-call pay which have been forecast based on prior experience.

Salary Increase — Expense Forecast $120,000

Pursuant to Board Resolution #122/19/20, we have included a forecast 2.75% across-the-board salary increase effective June 1, 2024 for our current staff of full-time (with the exception of the Superintendent and Chairman) and part-time employees. The effect of the 2.75% salary increase represents a $120,000 (.5%) increase to our revenue requirement.

Salary Adjustments & Seasonal Employees — Expense Forecast $18,000

This plan projects hiring 2 seasonal employees for this fiscal year at a cost of $18,000.
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Payroll Overheads — Expense

Payroll overheads include the cost of pension, health and other insurance benefits, workers' compensation insurance, retiree benefits, the employer match on social security and Medicare, and Federal and State unemployment taxes. The estimated total cost of these payroll overheads is $3,362,870 of which $2,867,370 (85.3%) is charged directly to expense, following the allocation of direct labor. This forecast is based on the following:

Employer Match on Social Security & Medicare — Expense Forecast $320,400

These costs are calculated based on the tax rates released by the Social Security Administration. The wage base used in 2024 for Social Security tax was increased to $168,600. There is no limit to the wage base used for Medicare. The Social Security rate is 6.20% and the Medicare rate is 1.45% as applied to taxable wages. The total forecast is $375,760 of which $320,400 is allocated to expense.

Payroll Taxes — Expense Forecast $15,110

The Water Authority is exempt from Federal unemployment taxes, and State unemployment taxes will continue to be self-funded against any future unemployment claims. This forecast consists of the Metropolitan Transit Authority payroll tax which is calculated at 0.34% of total payroll expense. The total forecast is $17,720 of which $15,110 is allocated to expense.

Health Insurance & Other Benefits — Expense Forecast $1,486,660

These benefits include medical, dental, vision, short-term disability, long-term disability, base life insurance, and accidental death and dismemberment. Forecasts are based on board approved benefits at the current premiums for each coverage as well as projected renewal rates. Our forecast is based on covered employees and their enrollment elections and dependent status as of January 1,2023 and includes 7.5% employee contribution toward medical, dental and vision coverage for all employee as well as retiree contributions at the rate of 20% for the retired employee including dependent coverage. The total forecast is $1,743,570 of which $1,486,700 is allocated to expense.

Coverage	FY 2025 Forecast
Medical	$1,407,450
Dental	83,080
Vision	3,120
Short-term disability	6,190
Long-term disability	20,120
Life and AD&D	25,000
Employee Contributions	(55,400)
Retiree Benefits (Net)	254,010
Total	**$1,743,570**

Pension & Group Term Life Insurance — Expense Forecast $601,230

This forecast assumes the Water Authority will continue to prepay our required pension contribution by December 15, 2024. The projection for the discounted amount of the February 1, 2025 bill is $705,130 if paid by December 15, 2024. The calculation provided by the retirement system for the fiscal year ending March 31, 2025 uses final pension rates on projected salary for April 1, 2024 through March 31, 2025. The total forecast for the rate year is $705,130 of which $601,230 is allocated to expense.

Workers' Compensation Insurance **Expense Forecast $137,670**

The following table contains the manual rates per $100 payroll included in our current policy with the Utica National Insurance which expires July 1, 2024.

	Current Manual Rate
7520 Water Works	$6.40
7542 Meter Readers	$3.86
8810 Clerical Office	$0.14
8809 Executive Officers	$0.12

Annual workers' compensation premium is generally adjusted as a result of the following:

1) The total premium cost of workers' compensation insurance is based on actual payroll for the policy period, excluding one third of total overtime costs. The annual audit will be completed following the end of our current policy year (June 30, 2024).

2) Experience modification ratings are issued annually by the Workers' Compensation Rating Board based on prior loss experience. The experience modification rating is designed to "credit" or reward those organizations whose loss history is below the average, and to "debit" or penalize those companies whose loss history is worse than that of similar businesses. A modification factor of 1.10 would indicate that a company is paying 10 percent more for workers' compensation insurance than competitors and a factor of .90 indicates that the company is paying 10 percent less. The modification factor is applied to the assigned manual rate for each $100 of payroll. The Water Authority's current Experience Modification Factor is .84, which was effective July 1, 2023, down from .89. The total forecast, based on our 2024-25 policy, is $161,460 of which $137,670 is allocated to expense.

Post-Retirement Health Benefits **Expense Forecast $306,960**

This forecast includes costs for retirement health benefits as calculated by the actuary in accordance with GASB 45 regulations. The total forecast is $360,000 of which $306,960 is allocated to expense. This is a non-cash expenditure which has no impact on the rate increase.

Purchased Power

This forecast uses the historical seven-year average to arrive at a pumpage forecast. This pumpage is applied to the current known rates charged by the Long Island Power Authority's subcontractor PSE&G. This forecast also includes gas costs to run our emergency generators.

Chemical Costs

Chemical costs include the cost of treating the water supply with bleach, liquid orthophosphate, bimetallic zinc polyphosphate and caustic soda. The chemical forecast in this operating plan is based on our estimated usage applied to the chemical costs contained in our existing board approved publicly bid chemical contracts. We reduced Chemical costs by $68,900 for Stations 40 & 44 which will be out of service during periods of Fiscal Year 24-25.

Chemical	Total Cost
Bleach	$178,840
Liquid Zinc Orthophosphate	133,810
Hydrogen Peroxide	110,660
Caustic Soda	194,190
Total	**$617,500**

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Commercial Insurance Costs Expense

The 2024-25 commercial insurance policies renewed with existing carriers effective March 1, 2024 with a net increase of 10.0%. The projected costs for fiscal year 2024-25 are listed below:

Type of Coverage	Carrier	Forecasted
Property	Zurich	$167,550
Automobile Liability	Zurich	81,000
General Liability	Zurich	120,800
Primary Umbrella	Zurich	37,100
Excess Liability	Various	154,590
Public Officials Liability	Zurich	24,350
Commercial Crime	Utica	4,320
Surety Bonds *(Street Openings)*	Western Surety	750
Total		**$590,460**

The total insurance forecast of $590,460, of which $81,000 is charged through transportation clearing. The forecast includes an anticipated 10% renewal increase effective March 1, 2025.

Central Operations Office

The costs associated with the operation of our business office included in this Plan are:

Carting Refuse Pickup *(based on existing agreement)*	$6,500
Housekeeping Services *(based on existing contract)*	32,970
Electric Power & Heating Costs (Office) *(estimate based on PSEG's current rates & fuel adjustment charges)*	121,900
Property Taxes	15,800
HVAC & Elevator Maintenance *(based on current charge)*	52,650
Miscellaneous Maintenance	3,800
Pest Control *(based on current charge)*	1,750
Fire Extinguisher Inspections *(annual inspection)*	2,500
Total	$237,870

Building and Yard Maintenance

Ground maintenance and snow removal are currently performed internally. Excluding labor costs we have included $4,000 for rock salt & de-icer. Also included is $5,000 for costs related to ground maintenance at our well stations and office building at 1580 Union Turnpike.

Special Services

Audit & Accounting Fees — Forecast $118,500

We have included a total of $90,000 for our annual audit for fiscal year June 1, 2023 to May 31, 2024, $15,000 for accounting services and $13,500 to update our actuary report in accordance with GASB 45.

Annual Water Quality Report — Forecast $10,300

Water systems serving greater than 10,000 persons are required to provide their Annual Water Quality Report (AWQR) to each of their bill paying customers by May 31 each year and also make a good faith effort to provide the report to non-bill paying customers. Currently, the AWQR also includes the chairman's report as required by the Public Authorities Law. Note that the annual chairman's report must be distributed *"annually to each customer either by mail or publication once in the newspapers having general distribution within the district"*. This forecast includes the cost for printing and mailing the combined reports to all customers.

Customer Outreach & Education — Forecast $5,000

As part of our customer outreach and education effort, the Water Authority plans to continue providing customers with information and resources necessary to help them control their water costs by reducing water waste and encouraging wise water use. Included in this forecast is the cost of printing door hangers used for customer notifications (e.g. customer advisory

notices, service disconnect notices, final termination notices) and inclusion of bill inserts (e.g. AWWA pamphlets or inserts designed in-house such as Utility Impostors, Cold Weather Preparedness).

Engineering Services **Forecast $30,000**

A total of $30,000 has been included in this Plan for engineering consulting services which includes assisting in the review of laboratory testing results of water samples taken during the year and responding to regulatory issues, Safe Drinking Water Act issues, assistance in the ongoing operation of engineering functions and other issues as they arise.

Legal Services **Forecast $185,000**

This forecast consists of the annual retainer agreement for legal services of $125,000. We have also included an additional $60,000 to represent the Water Authority in two litigations outside of the retainer agreement.

Uncollectibles

The amount forecast is based on the Water Authority's recent experience with uncollectibles.

Clearing Accounts

Information Systems **Forecast $274,810**

The information systems forecast includes the maintenance and support costs for all hardware and software programs utilized by the Water Authority such as enQuesta (used for customer service, financial and operating information), SCADA, security as well as monthly charges for our telephone system, and maintenance and services for LAN, PCs and Peripherals. The amount included in this forecast consists of the following costs:

Description	Forecast
MUPS Software & Maintenance Support	$152,060
enQuesta Software Updates & S&S Miscellaneous Programming	7,500
Network Hardware Support	23,570
Maintenance & Services LAN, PCs & Peripherals	83,100
Miscellaneous Data Processing & Equipment Maintenance Costs	8,580
Total	**$274,810**

Laboratory Charges **Forecast $398,300**

This line items represents annual testing required by the Nassau County Health Department. Costs have been estimated based on the fees included in the laboratory services contract with Pace Analytical Services, Inc.

Tools, Equipment & Uniforms — Expense Forecast $63,100

Tools include minor tool purchases such as hammers, wrenches, screwdrivers, shovels, sledge hammers, etc. Equipment includes the costs of operating the Water Authority's large equipment items which include a fork lift, tow compressors, snow removal equipment and lawn maintenance equipment. Uniforms for field employees and field supervisors are divided into two categories – footwear and uniform items. This forecast is based on prices contained in the current board approved annual contracts and have been estimated based on historical usage. The total amount forecast is $72,100, of which $63,100 is charged directly to expense.

Transportation Costs — Expense Forecast $286,630

Transportation costs were estimated based on projected activity for each individual vehicle. The average mileage and maintenance experience was applied to the most recent cost data available. The cost summary is as follows:

Item	Estimated Cost
Maintenance	$79,000
Insurance	81,000
Fuel	78,000
Labor & Overheads	78,680
Materials & Other	32,900
Total	**$349,580**

Of the total amount included for transportation, $286,630 (82.0%) is charged directly to expense in proportion to payroll of employees assigned to the vehicles.

General Office Supplies & Expenses

This forecast includes the following items:

Postage & Express Mail — Forecast $35,000

This forecast is based on our past experience and represents charges for postage and express mail charges.

Office Machine & Miscellaneous Supplies & Expenses — Forecast $27,540

This forecast represents the cost of maintenance and supplies for the postage meter machine, fax machines as well as supplies for laser printers such as ink ribbons, laser toner, paper, etc. It also includes the forecast of items such as stationery, envelopes, forms, checks, computer paper and miscellaneous office supplies which is based on historical usage.

Telephone Charges — Forecast $74,840

This forecast is based on our past experience and includes all associated costs for local and long distance telephone calls and our cellular system.

Administrative

This forecast includes the following items:

Public/Legal Notices — Forecast $7,200

This forecast is based on our past experience and includes public notices for annual service contracts and other legal notices, pre-notice for availability of the Annual Water Quality Report and Chairman's Report, spring and fall flushing notices, notices of major capital projects and notice of the annual public statement hearing.

Membership Dues & Licenses — Forecast $14,900

This includes membership in the following organizations:

Organization	Estimated Annual Cost
American Water Works Association	$7,000
Long Island Water Conference	1,900
Information System Memberships	2,200
Government Finance Officers Association	700
Engineering Societies	3,100
Total	**$14,900**

Bond Trustee Fees — Forecast $15,250

This is the amount paid to the Bank of New York for fees relating to the trustee duties performed in connection with our bond funds.

Employee Assistance Program — Forecast $4,880

This forecast is based on the flat rate included in our current contract with the National EAP, Inc. which covers up to 60 employees.

Miscellaneous Administrative — Forecast $7,680

This includes miscellaneous administrative expenses such as Human Resource subscriptions with respect to personnel policies and employment related matters and miscellaneous record-keeping, such as attendance cards, and labor postings.

Training & Education Total

Miscellaneous Forecast $250

This forecast amount includes the cost of miscellaneous educational material, manuals and publications including American Water Works Association ("AWWA") resources and subscriptions and safety training.

Engineering Forecast $200

There are three employees in the Engineering Department required to maintain their NYS Grade Operators licenses. These employees are required to recertify their operator's license by accumulating a total of 30 Continuing Education Units ("CEUs") every three years. Additionally, NYS requires all Grade IA and IIA operators to complete a certified laboratory skills course as part of their recertification.

Plant Operations Forecast $5,720

Plant Operations currently has 10 employees required to maintain their NYS Grade Operators licenses. Water Plant Operators are required to recertify their operator's license by accumulating a total of 30 CEUs every three years. Generally, the Water Authority utilizes the free workshops offered by the Long Island Water Conference; however, with the number of employees who are required to maintain their licenses, and the various shifts involved, we cannot accommodate all of these employees. AWWA offers online training courses which qualify as CEUs.

Information Systems Forecast $5,960

This forecast includes $5,700 for virtual training for the two Information System employees and $260 for miscellaneous training.

Contractors & Preventative Maintenance Expense

Customer Service Forecast $81,200

Billing & Inserting: This forecast is for the printing, inserting and mailing of the Water Authority's bills, final termination notices and other correspondence to customers and anticipates continuing our present practice of billing on a quarterly cycle. This amount is based on the charges included in the existing board approved contract adjusted for the increase in postage.

Production Forecast $462,740

VOC Towers & Iron Removal Plant: This item includes VOC Towers maintenance and expenses for the carbon exchange vessels located at Stations 20, 28, 44/44A & 44B/C. Total: $290,400

Pump and Treatment Equipment Repairs & Maintenance: This item represents costs associated with the repair and preventative maintenance of our treatment pumps and for preventative maintenance and repair of our treatment equipment. Total $172,340.

Transmission & Distribution — Expense Forecast $191,900

Paving: This forecast includes paving costs related to jobs such as: repair blow-offs, curb box installations, dig and clean taps, main leak repairs, service repairs, and raising gate boxes and manholes along with associated inspection costs. We have forecast a total of $548,600 for paving, of which $66,100 is charged to expense. This forecast is based on existing board approved contract rates as applied to anticipated volume of work.

Mark Outs: This forecast is based on the prices included in our current annual board approved contract for locating and marking out of underground facilities for utility work and excavation as applied to our historical experience. The total cost is $84,400 of which $80,800 is charged to expense.

Carting Refuse from Station 44: This cost is for the refuse removal of debris that is brought to Station 44 by our personnel following repair work. Based on our historical experience, we have forecast a total $45,000 for this cost.

Materials — Expense

These items include inventory categorized parts such as hydrants, hydrant parts, valves, water distribution fittings, copper plumbing fittings, etc. Charges for these materials have been forecast based on recent history and we expect to experience $55,000 in charges to Operations and Maintenance.

Miscellaneous Voucher Charges — Total

Miscellaneous voucher charges included in this year's Plan are based on the following forecasts by responsibility area:

Production — Forecast $38,880

Pumping Equipment: This cost represents the accounts payable charges associated with maintenance of the twenty-four pumps located throughout our service territory. Based on our historical experience, these charges are forecast to be $28,000.

Structures & Improvement: This cost represents miscellaneous supplies, including paint, used at our fifteen well stations and is based on our historical experience and forecast to be $10,880.

Transmission & Distribution — Forecast $28,300

Mains, Services & Hydrants: Based on our historical experience, we have included a total of $24,200 for miscellaneous purchases needed to support the maintenance of our infrastructure.

Removing & Resetting Meters: Based on historical experience, we have forecast $3,900 in miscellaneous expenses for this item.

Boring Samples: We have forecast $200 in miscellaneous expenses for this item.

Customer Service — Forecast $17,800

Billing & Accounting: Based on our historical experience, we have forecast $5,000 for bank fees, $5,100 for off-hours answering service charges and $2,500 for miscellaneous expenses. Total: $12,600

Meter Reading: We have included a total of $5,200 for the cost to maintain our meter reading equipment which includes the cost of our annual maintenance contract.

Amortization of Plant

The Water Authority's estimated gross plant as of May 31, 2024 is approximately $180,000,000. For this forecast we are projecting amortization of plant at $2,750,000 which reflects the elimination of fully amortized assets. Any new capital activity will be included directly in rates through the amortization of principal, issuance costs and payment of interest related to the Water Authority's bonds.

INTEREST CHARGES & OTHER

Interest on Bonds (Net) — Forecast $5,335,700

The forecast for the interest on the Water System Revenue Bonds is based on the terms in the bond resolutions. This includes interest of $1,244,900 from our Series 2010 Bonds net of savings from the Federal Build America Bonds subsidy, $899,900 for the Series 2015 Bonds and $3,190,900 on the Series 2021 Bonds.

Amortization of Debt Expense — Forecast $692,900

This item represents the amortization of the financing costs and premiums associated with the Water Authority's bonds.

INTEREST & OTHER INCOME

Interest & Other Income **Forecast $1,241,600**

This item includes the revenues received from our four cellular antenna agreements of $479,800. This forecast also includes interest earnings on our Bond Reserve Funds of $91,100. The final piece of this forecast is the projected earnings of $670,700 from our Bond Construction Funds.

BOND COVERAGE

We are projecting a targeted bond coverage for this Operating Plan of $6,505,370. We are proposing that in the event this amount is in excess of the targeted bond coverage that it be added to our proposed Rate Stabilization Fund to benefit future years.
The Water Authority anticipates an additional $50 million revenue bond issue in June 2027.

WATER AUTHORITY
OF
WESTERN NASSAU COUNTY

OPERATING PLAN

FINANCIAL FORECAST

FISCAL YEAR JUNE 2024 - MAY 2025

SUBJECT TO BOARD APPROVAL

3.25% SALARY INCREASE

PROJECTION OF REVENUES, EXPENSES

AND REQUIRED RATE RELIEF

Water Authority of Western Nassau County
Financial Forecast
Subject To Board Approval
3.25% SALARY INCREASE

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Water Authority of Western Nassau County
Summary of Revenue Requirement
Fiscal Year
2024 - 25

	Tariffs Projected	Rate Subsidy	Op Plan 2024 - 25	Rate Change *	Op Plan 2024 - 25	Op Plan 2023 - 24	Variance Before Increase	Percent Increase
Operating Revenues:								
Residential Water Sales	$16,997,800		$16,997,800	$282,030	$17,279,830	$17,152,980	($155,180)	1.66%
Commercial Water Sales	4,463,800		4,463,800	74,060	4,537,860	4,638,240	(174,440)	1.66%
Municipal Hydrant Rentals	3,290,200		3,290,200	54,590	3,344,790	3,289,160	1,040	1.66%
Commercial Fire Sprinklers	260,400		260,400	4,320	264,720	260,150	250	1.66%
Water Sales	25,012,200		25,012,200	415,000	25,427,200	25,340,530	(328,330)	1.66%
Other Revenue	63,700		63,700		63,700	51,500	12,200	
Rate Subsidy	285,700		285,700		285,700	326,700	(41,000)	
Rate Stabilization & Subsidies								
Total Revenues	25,361,600		25,361,600	415,000	25,776,600	25,718,730	(357,130)	
Operating Expenses:								
Operations & Maintenance	13,115,430		13,115,430		13,115,430	13,049,730	65,700	
Amortization of Plant	2,750,000		2,750,000		2,750,000	2,839,400	(89,400)	
Total Operating Expenses	15,865,430		15,865,430		15,865,430	15,889,130	(23,700)	
Total Utility Operating Margin	9,496,170		9,496,170	415,000	9,911,170	9,829,600	(333,430)	
Interest Charges & Other:								
Interest on Bonds	5,335,700		5,335,700		5,335,700	5,527,300	(191,600)	
Amortization of Debt Expense	(692,900)		(692,900)		(692,900)	(692,900)		
Transfer From Rate Fund								
Less: Interest & Other Income	(1,241,600)		(1,241,600)		(1,241,600)	(966,100)	(275,500)	
Net Interest Charges	3,401,200		3,401,200		3,401,200	3,868,300	(467,100)	
Targeted Bond Coverage Amount	$6,094,970		$6,094,970	$415,000	$6,509,970	$5,961,300	$133,670	
Debt Coverage Ratio	1.323		1.359		1.400	1.400		
Required Change in Rates				$415,000	$415,000	$1,200,000		
Required Change in Revenue				$415,000	$415,000	$1,200,000		
Percentage Rate Change				1.66%	1.66%	4.97%		
Subsidy %					1.14%	1.35%		
Average Residential Bill					$640	$629		
Average Commercial Bill					$2,756	$2,711		
Average Hydrant Bill					$1,368	$1,344		
Average Sprinkler Bill					$1,220	$1,199		

Water Authority of Western Nassau County
Financial Forecast
Debt Coverage Ratio
2024 - 25

		Operating Plan Current Rates	Operating Plan Adjustments (b)	Operating Plan Rate Change	Operating Plan 2023 - 24
	Total Utility Operating Margin	$9,496,170		$9,911,170	$9,829,600
	Add:				
(a)	Non-cash Items	2,750,000	370,000	3,120,000	3,209,400
	Interest & Other Income	1,241,600		1,241,600	966,100
	Total Available for Coverage	13,487,770	370,000	14,272,770	14,005,100
	Debt Service:				
	Interest on Revenue Bonds	5,548,900		5,548,900	5,527,300
	Principle on Revenue Bonds	4,645,000		4,645,000	4,455,000
	Net Debt Service	$10,193,900		$10,193,900	$9,982,300
	Ratio	1.32	1.36	1.40	1.40

(a) Non-cash items are added back to Utility Operating Income and has no effect on the Debt Coverage Ratio.

Water Authority of Western Nassau County
Financial Forecast
2024 - 25

Proposed Plan vs. Prior Operating Plan Total Operation & Maintenance Expenses	Projected 2024 - 25	Op Plan 2023 - 24	Change
Supervisory Salaries	$1,960,240	$1,585,220	$375,020
Non Supervisory Salaries	2,504,170	2,819,380	(315,210)
Payroll Overheads	2,868,840	2,596,060	272,780
Transportation \ Purchasing	287,000	295,280	(8,280)
Materials & Stores	55,000	40,400	14,600
Tools & Equipment including Uniforms	63,100	33,590	29,510
Laboratory Charges	398,300	389,100	9,200
Purchased Power	1,920,100	1,878,500	41,600
Chemicals	617,500	971,980	(354,480)
Production Contractors & Preventative Maintenance	172,340	193,990	(21,650)
Treatment Station Operating Costs	290,400	333,500	(43,100)
T & D Contractors	191,900	257,000	(65,100)
Billing and Inserting Contractor	81,200	84,500	(3,300)
Special Services	348,800	278,500	70,300
Building & Yard Maintenance	9,000	9,000	
Various Training and Education	12,130	12,300	(170)
Uncollectibles	41,000	38,000	3,000
Insurance Costs	509,460	452,550	56,910
General Office Supplies & Expenses	137,380	105,060	32,320
Information Systems	274,810	254,760	20,050
Administrative Costs	49,910	49,330	580
Central Operations Office	237,870	225,210	12,660
Production Miscellaneous	38,880	36,000	2,880
T & D Miscellaneous	28,300	61,320	(33,020)
Customer Service Miscellaneous	17,800	49,200	(31,400)
Total Summary by Functional Cost	$13,115,430	$13,049,730	$65,700

Water Authority of Western Nassau County
Financial Forecast
2024 - 25

Proposed Plan vs. Prior Operating Plan Production Expenses	Projected 2024 - 25	Op Plan 2023 - 24	Change
(Source of Supply, Pumping and Water Treatment Expenses)			
Supervisory Salaries	$532,790	$407,980	$124,810
Non Supervisory Salaries	708,840	1,098,190	(389,350)
Payroll Overheads - Production	797,870	887,730	(89,860)
Transportation \ Purchasing	110,620	140,730	(30,110)
Materials	400	300	100
Tools & Equipment including Uniforms	28,620	18,740	9,880
Laboratory Charges	398,300	389,100	9,200
Purchased Power	1,920,100	1,878,500	41,600
Chemicals	617,500	971,980	(354,480)
Contractors & Preventative Maintenance:			
Pump Repairs & Preventative Maintenance	35,700	30,800	4,900
Treatment Equipment Preventative Maintenance	108,590	127,740	(19,150)
VOC & Iron Removal Plant Maintenance	11,050	8,850	2,200
Tank Maintenance	17,000	26,600	(9,600)
Treatment Station Operating Costs	290,400	333,500	(43,100)
Snow Removal & Ground Maintenance	4,000	4,000	
Miscellaneous Voucher Purchases:			
Pumping Equipment	28,000	28,000	
Structures & Improvements	8,000	8,000	
Water Treatment Supplies	2,880		2,880
Total Production Expenses	$5,620,660	$6,360,740	($740,080)

Water Authority of Western Nassau County
Financial Forecast
2024 - 25

Proposed Plan vs. Prior Operating Plan Transmission & Distribution Expenses	Projected 2024 - 25	Op Plan 2023 - 24	Change
Supervisory Salaries	$205,440	$159,330	$46,110
Non Supervisory Salaries	858,530	952,690	(94,160)
Payroll Overheads - T & D	683,720	655,420	28,300
Transportation	96,440	104,460	(8,020)
Materials	54,040	39,690	14,350
Tools & Equipment including Uniforms	27,420	11,740	15,680
Contractor Charges:			
Paving Contractors	66,100	100,400	(34,300)
Mark Out Contractors	80,800	84,600	(3,800)
Leak Detection Contractors		27,000	(27,000)
Carting Refuse From Station 44	45,000	45,000	
Mains, Services & Hydrants			
Engineering Services	30,000	30,000	
Miscellaneous Voucher Purchases:			
Removing & Resetting Meters	3,900	4,900	(1,000)
Boring Samples	200	2,800	(2,600)
T & D - Maintenance			
Mains	15,000	30,000	(15,000)
Services	4,500	18,620	(14,120)
Hydrants	4,700	5,000	(300)
Total Transmission & Distribution Expenses	$2,175,790	$2,271,650	($95,860)

Water Authority of Western Nassau County
Financial Forecast
2024 - 25

Proposed Plan vs. Prior Operating Plan Customer Service Expenses	Projected 2024 - 25	Op Plan 2023 - 24	Change
Supervisory Salaries - Office	$193,180	$188,700	$4,480
Non Supervisory Salaries	556,650	505,050	51,600
Payroll Overheads - Customer Service	481,840	408,900	72,940
Transportation	26,030	21,670	4,360
Materials	560	410	150
Tools & Equipment including Uniforms	2,230	2,360	(130)
Information Systems:			
MUPS Software Maintenance & Support	159,560	142,520	17,040
Info Systems Equipment Maintenance	106,670	105,160	1,510
Miscellaneous Data Processing Costs	8,580	7,080	1,500
Uncollectibles	41,000	38,000	3,000
Billing and Inserting Contractor	81,200	84,500	(3,300)
Annual Water Supply Statement Rights & Responsibility Brochure	10,300	9,500	800
Customer Outreach	5,000	5,000	
Miscellaneous Voucher Purchases:			
Meter Reading	5,200	5,700	(500)
Billing & Accounting	12,600	43,500	(30,900)
Total Customer Service Expenses	$1,690,600	$1,568,050	$122,550

Water Authority of Western Nassau County
Financial Forecast
2024 - 25

Proposed Plan vs. Prior Operating Plan Administrative & General Expenses	Projected 2024 - 25	Op Plan 2023 - 24	Change
Supervisory Salaries	$992,620	$793,500	$199,120
Chairman Salary	36,210	35,710	500
Non Supervisory Salaries	380,150	263,450	116,700
Payroll Overheads - Administrative	905,410	644,010	261,400
Transportation	53,910	28,420	25,490
Tools & Equipment including Uniforms	4,830	750	4,080
Legal Services	185,000	125,000	60,000
Investment Consultant	15,000	15,000	
Audit & Actuarial Fees	103,500	94,000	9,500
General Liability Insurance	341,910	307,890	34,020
Property Insurance	167,550	144,660	22,890
Building & Yard Maintenance	5,000	5,000	
Central Operations Office:			
Office Repairs	3,800	2,600	1,200
Electric & Heating	121,900	134,180	(12,280)
Cleaning Service	32,970	23,770	9,200
Carting Refuse Costs	6,500	6,500	
HVAC & Elevator	52,650	47,960	4,690
Fire Inspections	2,500	3,000	(500)
Pest Control	1,750	1,500	250
Administrative Voucher Charges:			
Various Training and Education	6,430	6,600	(170)
Industry Related Conferences/Meetings	5,700	5,700	
Telephone Charges	74,840	55,900	18,940
Office Postage	35,000	27,500	7,500
Office Machine Supplies/Expense	27,540	21,660	5,880
Dues, Memberships & Licenses	14,900	12,440	2,460
Public/Legal Notices	7,200	5,900	1,300
Bond Trustee Fees	15,250	14,500	750
Employee Programs	4,880	4,690	190
Miscellaneous Administrative	7,680	11,800	(4,120)
Total Administrative & General Expenses	$3,628,380	$2,849,290	$779,090

Water Authority of Western Nassau County
Financial Forecast
2024 - 25

Comparison to Prior Fiscal Year Total Operation & Maintenance Expenses	Projected 2024 - 25	Actual FY 2023	Change
Supervisory Salaries	$1,960,240	$1,846,425	$113,815
Non Supervisory Salaries	2,504,170	2,102,760	401,410
Payroll Overheads	2,868,840	2,717,976	150,864
Transportation	287,000	348,160	(61,160)
Materials & Stores	55,000	48,469	6,531
Tools & Equipment including Uniforms	63,100	61,274	1,826
Laboratory Charges	398,300	352,832	45,468
Chemicals	617,500	384,733	232,767
Production Contractors	172,340	257,567	(85,227)
T & D Contractors	191,900	162,517	29,383
Billing and Inserting Contractor	81,200	80,252	948
Special Services	348,800	288,893	59,907
Purchased Power	1,920,100	1,854,218	65,882
Building & Yard Maintenance	9,000	59,508	(50,508)
Various Training and Education	12,130		12,130
Uncollectibles	41,000	37,907	3,093
Insurance Costs	509,460	436,629	72,831
General Office Supplies & Expenses	137,380	122,678	14,702
Information Systems	274,810	164,136	110,674
Administrative Costs	49,910	39,641	10,269
Central Operations Office	237,870	223,884	13,986
Production Miscellaneous	38,880	16,666	22,214
T & D Miscellaneous	28,300	28,290	10
Customer Service Miscellaneous	17,800	6,658	11,142
Total Summary by Functional Cost	$13,115,430	$11,675,300	$1,440,130

Water Authority of Western Nassau County
Financial Forecast
2024 - 25
Breakdown of Required Rate Relief by Element

	Category	Fiscal Year 2024 - 25	Fiscal Year 2023 - 24	Effect on Rates	Rates %
(a)	Operating Revenues:	$25,361,600	$25,718,730	$357,130	1.43%
	Operation & Maintenance Expenses:				
	Labor	4,464,410	4,404,600	59,810	0.24%
	Employee Benefits	2,868,840	2,596,060	272,780	1.09%
	Power	1,920,100	1,878,500	41,600	0.17%
	Office Operations	650,060	585,030	65,030	0.26%
	Transportation, Tools & Materials	414,100	378,270	35,830	0.14%
	Chemicals	617,500	971,980	(354,480)	-1.42%
	Insurance	509,460	452,550	56,910	0.23%
	Contractors	1,192,540	1,203,090	(10,550)	-0.04%
	Other O&M	478,420	579,650	(101,230)	-0.40%
(a)	Total Operation & Maintenance	13,115,430	13,049,730	65,700	0.26%
(A)	Total Operating Activity	12,246,170	12,669,000	422,830	1.69%
	Financing Activity				
	Debt Requirements:				
	Interest Expense	5,548,900	5,527,300	(21,600)	-0.09%
	Principal Repayment	4,645,000	4,455,000	(190,000)	-0.76%
	Total Debt Requirements	10,193,900	9,982,300	(211,600)	-0.85%
	Projected Earnings on Debt Requirement	1.40	1.40	(0.00)	1.92%
(b)	Coverage Requirement	14,272,770	14,005,100	267,670	1.07%
	Interest & Other Income	(1,241,600)	(966,100)	(275,500)	-1.10%
	Non-cash Items	(3,209,400)	(3,209,400)		
(b)	Total Interest & Other Adjustments	(4,451,000)	(4,175,500)	(275,500)	-1.10%
(B)	Total Finance Activity	9,821,770	9,829,600	(7,830)	-0.03%
(A+B)	REQUIRED WATER REVENUE	$25,427,200	$25,012,200	$415,000	1.66%

Water Authority of Western Nassau County
Financial Forecast
2024 - 25
Summary of Change in Revenue Requirement

Change in Water Service Revenues:		
Water Revenue per last Operating Plan	$25,340,530	
Water Revenues Projected per Tariffs	25,012,200	
Change in Water Service Revenues	328,330	
Change in Miscellaneous Revenue	28,800	
	357,130	
Revenue Change by Category:		
Change in Residential Revenue	155,180	0.62%
Change in Commercial Revenue	174,440	0.70%
Change in Fire and Miscellaneous Revenue	27,510	0.11%
Change in Revenues	357,130	
Change in Revenue Requirement:		
Additional Revenue due to Revenue Forecast	357,130	1.43%
Additional Revenue due to Operating Activity	65,700	0.26%
Additional Revenue due to Financing Activity	(7,830)	-0.03%
Revenue Shortfall	415,000	1.66%
Change in Rate Subsidy		
Required Rate Increase	$415,000	1.66%

WATER AUTHORITY OF WESTERN NASSAU COUNTY
PROPOSED TARIFF RATES
Operating Plan
Summary of Revenue Requirement

			OLD RATES 6/1/2024		NEW RATES
METER RESIDENTIAL - Service Classification 1				1.66%	
Base Rates (per 1,000 gallons)					
For the first 9000 Gallons			$63.82		$64.88
For the next 135,000 Gallons*			5.836		5.933
All over 144,000 Gallons*			5.982		6.081
OVER MINIMUM USERS (rates 311-319)			7.092		7.210
METER COMMERCIAL - Service Classification 2				1.66%	
Minimum Charge	**Allowance**	**Block 1**			
5/8"	9,000	135,000	$63.82		$64.88
3/4"	13,500	130,500	$95.72		$97.31
1"	22,500	121,500	$159.51		$162.16
1.5"	45,000	99,000	$319.05		$324.34
2"	72,000	153,000	$510.46		$518.93
3"	144,000	306,000	$1,020.90		$1,037.84
4"	225,000	495,000	$1,595.21		$1,621.68
6"	450,000	270,000	$3,190.38		$3,243.31
8"	720,000	315,000	$5,104.63		$5,189.33

WATER AUTHORITY OF WESTERN NASSAU COUNTY
PROPOSED TARIFF RATES
Operating Plan
Summary of Revenue Requirement

PUBLIC FIRE HYDRANTS - Service Classification 3			**1.66%**	
	Quarterly	**$336.00**		**$342.00**
	Annual	**$1,344.00**		**$1,368.00**
PRIVATE FIRE SPRINKLERS - Service Classification 4			**1.66%**	
	ALL 2" & UNDER RATE	**$63.23**		**$64.28**
	2.5"	**$74.01**		**$75.24**
	3"	**$109.81**		**$111.63**
	4"	**$198.53**		**$201.82**
	6"	**$405.65**		**$412.38**
	8"	**$811.10**		**$824.56**

WATER AUTHORITY
OF
WESTERN NASSAU COUNTY

OPERATING PLAN

FINANCIAL FORECAST

5 YEAR FINANCIAL FORECAST

2024-25 thru 2028-29

SUBJECT TO BOARD APPROVAL

PROJECTION OF REVENUES, EXPENSES

AND REQUIRED RATE RELIEF

Water Authority of Western Nassau County
5 Year Long Range Forecast
2024-25 thru 2028-29

SUBJECT TO BOARD APPROVAL
Fiscal Year Ending May 31

	2023 Actual	2024 Adopted	2025 OP PLAN	2026 Forecasted	2027 Forecasted	2028 Forecasted	2029 Forecasted
Operating Revenues:							
Residential	16,110,653	17,152,980	17,279,830	18,778,490	18,699,760	20,410,420	21,822,960
Commercial	4,009,088	4,638,240	4,537,860	4,931,400	4,910,700	5,359,900	5,730,800
Fire Hydrants	3,147,595	3,289,160	3,344,790	3,634,900	3,619,700	3,950,800	4,224,200
Private Fire	246,928	260,150	264,720	287,700	286,500	312,700	334,300
Water Sales	23,514,264	25,340,530	25,427,200	27,632,490	27,516,660	30,033,820	32,112,260
Late Payment Charges	60,430	51,500	63,700	65,610	67,580	69,610	71,700
Other Fees & Charges	215,144	326,700	285,700	294,270	303,100	312,190	321,560
Other Revenue	275,574	378,200	349,400	359,880	370,680	381,800	393,260
Revenue from Customers	23,789,838	25,718,730	25,776,600	27,992,370	27,887,340	30,415,620	32,505,520
Rate Stabilization Fund Contributions	100,000						
Total Revenues	23,889,838	25,718,730	25,776,600	27,992,370	27,887,340	30,415,620	32,505,520
Operating Expenses:							
Operation & Maintenance	11,675,299	13,049,730	13,115,430	15,028,770	14,714,840	14,785,120	15,748,520
Plant Amortization	2,543,771	2,839,400	2,750,000	3,510,900	4,422,000	5,178,200	7,437,800
Total Operating Expenses	14,219,070	15,889,130	15,865,430	18,539,670	19,136,840	19,963,320	23,186,320
Total Utility Operating Income	9,670,768	9,829,600	9,911,170	9,452,700	8,750,500	10,452,300	9,319,200
Interest Charges & Other:							
Interest on Long-term Debt	5,739,782	5,527,300	5,335,700	5,134,300	4,920,400	5,816,200	6,241,600
Amortization Expenses	(396,942)	(692,900)	(692,900)	(692,900)	(846,900)	(762,300)	(765,500)
Less: Interest & Other Income	(3,105,120)	(966,100)	(1,241,600)	(963,500)	(783,100)	(1,060,000)	(1,031,600)
Total Interest Charges & Other	2,237,720	3,868,300	3,401,200	3,477,900	3,290,400	3,993,900	4,444,500
Targeted Bond Coverage Amount	7,433,048	5,961,300	6,509,970	5,974,800	5,460,100	6,458,400	4,874,700
PROJECTED FY23 5 YEAR FORECAST		4.97%	8.18%	7.71%	-4.07%	8.87%	
Debt Coverage Ratio		1.40	1.40	1.40	1.40	1.40	1.40
Change in Revenue Requirement		6.32%	0.23%	7.82%	-0.38%	9.07%	6.87%
Change in Customer Rates		4.97%	1.66%	7.89%	-0.42%	9.15%	6.92%
Average Residential Bill		$629	$640	$690	$687	$750	$802
Average Commercial Bill		$2,711	$2,756	$2,974	$2,961	$3,232	$3,456

Water Authority of Western Nassau County
2024-25 thru 2028-29
Operation & Maintenance Expense

				Fiscal Year Ending May 31			
	2023 Actual	2024 Op Plan OLD	2025 Op Plan NEW	2026 Projected	2027 Projected	2028 Projected	2029 Projected
Summary by Functional Cost:							
Supervisory Salaries	$1,846,425	$1,585,220	$1,960,240	$2,023,960	$2,089,740	$2,157,650	$2,157,650
Non Supervisory Salaries	2,102,760	2,819,380	2,504,170	2,585,550	2,669,590	2,756,360	2,756,360
Payroll Overheads	2,717,976	2,596,060	2,868,840	3,005,540	3,148,740	3,298,740	3,455,940
Purchased Power	1,854,218	1,878,500	1,920,100	1,977,700	2,037,000	2,098,100	2,161,000
Chemicals	384,733	971,980	617,500	636,000	655,100	674,800	695,000
Insurance Costs	436,629	452,550	509,460	524,760	540,560	556,760	573,460
Central Operations Office:	223,884	225,210	237,870	245,170	252,570	260,170	267,970
Special Services:							
Engineering Services	50,924	30,000	30,000	30,900	32,800	34,800	36,900
Customer Outreach & Education	23,523	14,500	15,300	15,600	15,900	16,200	16,500
Legal Services	136,246	125,000	185,000	190,600	200,100	210,100	220,600
Investment Consultant	33,227	15,000	15,000	15,000	15,800	16,600	17,400
Audit Fees	78,200	94,000	103,500	106,600	109,800	113,100	116,500
Uncollectibles	37,907	38,000	41,000	41,000	41,000	41,000	41,000
Materials	48,469	40,400	55,000	56,600	58,300	60,000	61,800
Clearing Accounts:							
Laboratory Charges	352,832	389,100	398,300	418,200	439,100	461,100	484,200
Tools & Equipment including Uniforms	61,274	33,590	63,100	65,000	66,900	69,000	71,100
Transportation Costs	348,160	295,280	287,000	295,600	309,900	324,700	340,200
Information Systems	164,136	254,760	274,810	283,110	291,610	300,410	309,410
General Office Supplies & Expenses	122,678	105,060	137,380	141,480	145,780	150,180	154,680
Administrative	39,641	49,330	49,910	51,310	52,810	54,410	56,010
Training & Education		12,300	12,130	12,530	12,930	13,330	13,730
Contractors & Preventative Maintenance:							
Well & Pump Overhauls	19,105	30,800	35,700	37,500	39,400	41,400	43,500
Snow Removal & Ground Maintenance	59,508	9,000	9,000	9,300	9,600	9,900	10,200
Structures & Improvements	236,868	35,450	28,050	29,250	30,850	32,450	34,250
Water Treatment	1,594	127,740	108,590	113,990	119,690	125,690	131,990
Additional Treatment for Dioxane & PFOA's		333,500	290,400	1,744,800	943,300	507,400	1,104,900
Mains, Services & Hydrants	137,315	156,600	125,800	131,200	136,800	142,700	148,900
Paving Contractors	25,202	100,400	66,100	69,400	72,900	76,500	80,300
Billing, Inserting & Mailing	80,252	84,500	81,200	83,600	86,100	88,700	91,400
Production Miscellaneous	16,666	36,000	38,880	39,980	41,180	42,480	43,780
T & D Miscellaneous	28,290	61,320	28,300	29,140	29,990	30,790	31,690
Customer Service Miscellaneous	6,658	49,200	17,800	18,400	19,000	19,600	20,200
Total Summary by Functional Cost	**11,675,300**	**13,049,730**	**13,115,430**	**15,028,770**	**14,714,840**	**14,785,120**	**15,748,520**

Water Authority of Western Nassau County
5 Year Long Range Forecast
2024-25 thru 2028-29
5 Year Capital Plan

	5 Year		Fiscal Year Ending May 31				
	TOTAL	2023 - 24	2024-25	2025-26	2026-27	2027-28	2028-29
Wells & Stations	190,000		70,000		120,000		
Treatment & SCADA	102,886,800	1,932,600	21,615,700	21,952,900	20,528,400	26,925,600	11,864,200
Structures & Improvements	2,710,400	1,126,600	2,035,900	674,500			
Meters & Reading System	2,088,200	197,000	393,300	405,100	417,300	429,800	442,700
Transmission & Distribution	24,905,700	9,319,500	10,477,900	2,002,900	2,073,100	8,141,300	2,210,500
Computer Equipment	2,006,100	22,500	115,900	68,200	1,666,000	108,000	48,000
Vehicles & Tools	1,205,100	119,100	532,400	260,400	167,200	160,300	84,800
Structures & Land							
Subtotal Construction	135,992,300	12,717,300	35,241,100	25,364,000	24,972,000	35,765,000	14,650,200

Note: These expenditures are all pending future Board Approval

Debt Coverage Ratio
2024-25 thru 2028-29

	Fiscal Year Ending May 31					
	2024	2025	2026	2027	2028	2029
Total Utility Operating Margin	9,829,600	9,911,170	9,452,700	8,750,500	10,452,300	9,319,200
Add:						
Interest Income	966,100	1,241,600	963,500	783,100	1,060,000	1,031,600
Non-cash Items	3,209,400	3,120,000	3,870,900	4,782,000	5,538,200	7,797,800
Total Available for Coverage	14,005,100	14,272,770	14,287,100	14,315,600	17,050,500	18,148,600
Debt Service:						
Interest on Revenue Bonds	5,728,500	5,548,900	5,360,100	5,160,400	5,786,900	6,593,600
Interest on New Debt						
Principle on Revenue Bonds	4,455,000	4,645,000	4,845,000	5,065,000	6,392,000	6,369,700
Principle on New Debt						
Total Debt Service Payments	10,183,500	10,193,900	10,205,100	10,225,400	12,178,900	12,963,300
Ratio	1.38	1.40	1.40	1.40	1.40	1.40

Water Authority of Western Nassau County

Proposed 5-Year Capital Plan

2024-25 to 2028-29

Water Authority of Western Nassau County

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

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Well Screen & Well Pump Bowl Replacements & Building Upgrades & Water Treatment

The well screen is a filtering device that serves as the intake portion of the well that is set within the aquifer. A properly operating screen allows sediment-free water to enter the well and also, structurally supports the unconsolidated aquifer material around it. The Water Authority's well screen replacement is based on a service life of 30 – 50 years. This benchmark is based on inspections and observations of previous well screens that have been removed from service during well screen replacement projects. Over time the openings in the screen can increase, thereby, allowing damaging sand and/or gravel to enter the well pump bowl. This reduces the life span of the well pump bowl and allows debris to collect in the distribution system, water storage tanks or Volatile Organic Compound ("VOC") Removal Facility clearwells. In addition, the screen openings can also decrease in size from encrustation (either chemical or biological), which will reduce the amount of water available to the well pump bowl.

The Water Authority treats all water it extracts from the underground aquifer system prior to entering into the distribution system. All water treatment must comply with applicable Federal, State and local drinking water standards.

- **2024-25**
  - **New Well Pump Bowl and Appurtenances for Well No. 35A (Floral Park)** - **Well Pump No. 35A (Floral Park)** – In 2024-25, based on the present usage rate, the well pump will have operated for over 72,000 hours since its last replacement in 2013. Well No. 35A is currently exhibiting a 50% loss in flow capacity. Design work, bidding of project and construction to be performed in 2024-25. **The estimated cost for the 2024-25 portion of this project is $70,000.**

  - **Design and Contract Administration for a New 3rd AOP Reactor Unit for Well No. 57A at Station No. 57 (New Hyde Park)** – This project involves the design and contract administration for an additional Advanced Oxidation Process ("AOP") Reactor to be installed within Well No. 57A's 1,4-Dioxane Treatment system. Due to changing water quality, treatment modifications are necessary to modify Well No. 57A's 1,4-Dioxane removal system to increase the units ability to remove higher levels of 1,4-Dioxane. Currently, Well No. 57A's flow is reduced 27% to achieve full removal of 1,4-Dioxane. **The estimated cost for the 2024-25 portion of this project is $247,000.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

- **Construction of New 3rd AOP Reactor Unit for Well No. 57A at Station No. 57 (New Hyde Park)** – The existing two (2) AOP reactors are stackable units, making it possible to add an additional unit to the treatment train. This will increase the units ability to treat higher amounts of 1,4-Dioxane and decrease the hydrogen peroxide usage. The AOP Building's roof height was also designed with the possibility of including a 3rd reactor, if necessary. The new 3rd reactor will require mechanical piping modifications, along with new electrical wiring. In addition, two new sodium hypochlorite tanks will be installed in the AOP building to increase the onsite sodium hypochlorite storage. **The estimated cost for the 2024-25 portion of this project is $1,171,699.**

- **Update and Modify AOP's Programmable Logic Controller (PLC) at Station No. 35 (Floral Park)** – The existing AOP's PLC requires additional hardware memory to operate properly. Currently, the PLC enters a "fault mode" when the memory is "overloaded. **The estimated cost for the 2024-25 portion of this project is $15,000.**

- **Design and Contract Administration for New Buildings, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment at Station No. 44 (Elmont)** – This is the second year, of a four (4) fiscal year project. The estimated cost for design and contract administration is $1,874,700. **The estimated cost for the 2024-25 portion of this project is $439,200.**

- **Construction of New Buildings, Structures, and Electrical and Mechanical Upgrades and PFAs Treatment at Station No. 44 (Elmont)** – This project involves the installation of new well screens and pumps for Well Nos. 44 and 44B, new well pumps for Well Nos. 44A and 44C, the replacement of the existing well buildings, and a new permanent treatment facility for the removal PFAs from the water in the wells at Station No. 44. The GACs for PFA treatment were installed on an emergency basis. The vessels are currently installed outdoors, with tents enclosing them for protection from the elements. The emergency installation of GAC treatment allowed the Water Authority to meet customer demands and maintain pressure from high water demands of summer pumpage.

  In 2024-25 Well No. 44's existing screen, which is one of the system's oldest units currently in service, will be over 50 years old. In 1979, a stainless steel screen liner was installed into the screen to stop the flow of sand through the existing screen and into the well pump bowl. The installation of the screen liner corrected the flow of sand; however, it reduced the flow capacity of the well and increased power costs. Based on the present usage rate, the well pump bowl will have operated for over 69,000 hours since its last replacement in 1992. Well No. 44A's pump, based on the present usage rate, will have operated for over 55,000 hours since its replacement in 1999. Well Nos. 44 and 44A are housed in the same underground structure and will need to be raised above grade according to Nassau County Department of Health Sanitary Code requirements. In addition to bringing Well Nos. 44 and 44A's building above grade, the building which currently houses the booster pumps will also be replaced. Well No. 44B's existing screen will be over 45 years old. Although the

Water Authority has not found any signs of sand in Well No. 44B's water, its age and type, (same as Well No. 44) indicates a higher risk of failure. The Water Authority plans to monitor the well's specific capacity to determine any problems with the well screen. Based on the present usage rate, the well pump bowl will have operated for over 44,000 hours since its last replacement in 2015. Well No. 44C's pump, based on the present usage rate, will have operated for over 52,000 hours since its replacement in 1994. Well Nos. 44B and 44C are housed in the same underground structure and will need to be raised above grade in a new building according to Nassau County Department of Health Sanitary Code requirements.

In addition to the well work, the three (3) booster pumps at this station will be replaced, two emergency generators will be installed for stand-by emergency power and the existing fence will be replaced. The fence is in poor condition due to numerous patches from security issues along the southern property line. Plans are to replace the existing fence fabric with maintenance-free, vinyl coated fence fabric. Approximately 1,520 feet of fence is in need of replacement. Construction will be taking place over three (3) fiscal years. The project cost for construction is $24,584,200. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $4,930,200 toward the cost of this treatment facility. **The estimated cost for the 2024-25 portion of this project is $9,644,639.**

- **Design and Contract Administration for New Building, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane and PFAs Treatment Facility at Station No. 40 (Headquarters) (New Hyde Park)** – This is the second year of a three (3) fiscal year project. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) Grant in the amount of $9,912,870 toward the cost of this treatment facility. **The estimated cost for the 2024-25 portion of this project is $718,400.**

- **Construction of New Building, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane and PFAs Treatment Facility at Station No. 40 (Headquarters) (New Hyde Park)** – A new treatment facility for the removal of 1,4-Dioxane and Perfluoroalkyl substances ("PFAs") from the water in Well Nos. 40 and 40A. Advanced Oxidation Process ("AOP") and Granular Activated Carbon ("GAC") treatment will be designed for the removal of 1,4-Dioxane and PFAs. This project involves the replacement of Well Nos. 40 and 40A's well pump, replacement of FWP Nos. 40-1 and 40-2 and the construction of a new AOP and GAC treatment facility for the removal of 1,4-Dioxane and PFAs from the water in the wells at Station No. 40. The construction will take place over two (2) fiscal years. The cost for construction is $15,550,373. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) Grant in the amount of $9,912,870 toward the cost of this treatment facility. **The estimated cost for the 2024-25 portion of this project is $9,379,754.**

- **2024-25 – The total estimated cost for wellhead treatment, well screen & well pump bowl replacements, and building upgrades is $21,685,692.**

- **2025-26**
  - **Design and Contract Administration for a New Well and AOP Building and 0.5 MG Elevated Storage Tank, VOC Removal Facility Upgrades and Additional Electrical and Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 20 (Phase III) (New Hyde Park)** – This is the first year, of a four (4) fiscal year project. The estimated cost for design and contract administration is $2,856,165. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $11,550,000 towards the cost of this treatment facility. **The estimated cost for the 2025-26 portion of this project is $934,466.**

  - **Design and Contract Administration for a New Building Structure to Enclose the Existing PFAs Treatment at Station No. 28 (Elmont)** – This project involves the design and contract administration of a permanent building structure to house the existing outdoor GAC vessels for the removal of PFAs from Well No. 28. The GAC vessels for PFA treatment were installed on an emergency basis, as the vessels are currently installed outdoors, with tents enclosing them for protection from the elements. That emergency installation of GAC treatment allowed the Water Authority to meet customer demands and maintain pressure from high water demands of summer pumpage. Design and contract administration will be taking place over two (2) fiscal years. The estimated cost for design and contract administration is $373,230. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $2,496,000 towards the cost of this treatment facility. **The estimated cost for the 2025-26 portion of this project is $306,049.**

  - **Design and Contract Administration for New Buildings, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment at Station No. 44 (Elmont)** – This is the third year, of a four (4) fiscal year project. The estimated cost for design and contract administration is $1,874,700. **The estimated cost for the 2025-26 portion of this project is $549,000.**

- **Construction of New Buildings, Structures, and Electrical and Mechanical Upgrades and PFAs Treatment at Station No. 44 (Elmont)** – This project involves the installation of new well screens and pumps for Well Nos. 44 and 44B, new well pumps for Well Nos. 44A and 44C, the replacement of the existing well buildings, and a new permanent treatment facility for the removal PFAs from the water in the wells at Station No. 44. The GACs for PFA treatment were installed on an emergency basis. The vessels are currently installed outdoors, with tents enclosing them for protection from the elements. The emergency installation of GAC treatment allowed the Water Authority to meet customer demands and maintain pressure from high water demands of summer pumpage.

  In 2024-25 Well No. 44's existing screen, which is one of the system's oldest units currently in service, will be over 50 years old. In 1979, a stainless steel screen liner was installed into the screen to stop the flow of sand through the existing screen and into the well pump bowl. The installation of the screen liner corrected the flow of sand; however, it reduced the flow capacity of the well and increased power costs. Based on the present usage rate, the well pump bowl will have operated for over 69,000 hours since its last replacement in 1992. Well No. 44A's pump, based on the present usage rate, will have operated for over 55,000 hours since its replacement in 1999. Well Nos. 44 and 44A are housed in the same underground structure and will need to be raised above grade according to Nassau County Department of Health Sanitary Code requirements. In addition to bringing Well Nos. 44 and 44A's building above grade, the building which currently houses the booster pumps will also be replaced. Well No. 44B's existing screen will be over 45 years old. Although the Water Authority has not found any signs of sand in Well No. 44B's water, its age and type, (same as Well No. 44) indicates a higher risk of failure. The Water Authority plans to monitor the well's specific capacity to determine any problems with the well screen. Based on the present usage rate, the well pump bowl will have operated for over 44,000 hours since its last replacement in 2015. Well No. 44C's pump, based on the present usage rate, will have operated for over 52,000 hours since its replacement in 1994. Well Nos. 44B and 44C housed are in the same underground structure and will need to be raised above grade in a new building according to Nassau County Department of Health Sanitary Code requirements.

  In addition to the well work, the three (3) booster pumps at this station will be replaced, two emergency generators will be installed for stand-by emergency power and the existing fence will be replaced. The fence is in poor condition due to numerous patches from security issues along the southern property line. Plans are to replace the existing fence fabric with maintenance-free, vinyl coated fence fabric. Approximately 1,520 feet of fence is in need of replacement. This is the second year, of a three (3) fiscal year project. The project cost for construction is $24,584,200. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $4,930,200 toward the cost of this treatment facility. **The estimated cost for the 2025-26 portion of this project is $12,692,100.**

- **Design and Contract Administration for New Building, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane and PFAs Treatment Facility at Station No. 40 (Headquarters) (New Hyde Park)** – This is the final year, of a three (3) fiscal year project. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) Grant in the amount of $9,912,870 toward the cost of this treatment facility. **The estimated cost for the 2025-26 portion of this project is $179,600.**

- **Construction of New Building, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane and PFAs Treatment Facility at Station No. 40 (Headquarters) (New Hyde Park)** – A new treatment facility for the removal of 1,4-Dioxane and Perfluoroalkyl substances ("PFAs") from the water in Well Nos. 40 and 40A. Advanced Oxidation Process ("AOP") and Granular Activated Carbon ("GAC") treatment will be designed for the removal of 1,4-Dioxane and PFAs. This project involves the replacement of Well Nos. 40 and 40A's well pump, replacement of FWP Nos. 40-1 and 40-2 and the construction of a new AOP and GAC treatment facility for the removal of 1,4-Dioxane and PFAs from the water in the wells at Station No. 40. This is the final year, of a two (2) fiscal year project. The cost of construction is $15,550,373. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) Grant in the amount of $9,912,870 toward the cost of this treatment facility. **The estimated cost for the 2025-26 portion of this project is $6,253,169.**

- **Design and Contract Administration for EPA Emerging Contaminants at Station Nos. 15, 15A/B, 15C/E & 15D (Elmont)** – The EPA announced its final rule for PFAS compounds. They are increasing the number of different PFAs compounds required for testing and reducing its maximum allowable contaminant level for PFOA and PFOS (which will be lower than NYSDOH's maximum allowable contaminant level). There is an initial three (3) year monitoring period (2024 – 2027), followed by rule promulgation (2027 – 2029) and final compliance for the final rule begins in 2029. The Water Authority has identified the wells at Station No. 15 (Well Nos. 15A, 15B, 15C, 15D & 15E) will require PFAs removal to meet these new requirements. This project involves the construction of two (2) new building structures and ten (10) new GAC vessels. The cost for design and contract administration is $1,516,500. This is the second year, of a four (4) fiscal year project. **The estimated cost for the 2025-26 portion of this project is $882,540.**

- **Preparation of a New Master Plan** – Proper planning and management are vital in meeting the objectives of the Water Authority and maintaining our precious water resource. The Master Plan is a comprehensive planning document with respect to water quality, water quantity, financial planning, project growth, infrastructure condition, public health protection and security. The report will provide recommendations, schedules and cost opinions for maintaining and upgrading the infrastructure and operations of the Water Authority for meeting future projected needs of the communities served. The existing Master Plan (2014 – 2024) is in its final year. **The estimated cost for the 2025-26 portion of this project is $140,000.**

- **Update and Modify Existing Hydraulic Model** – Hydraulic modeling involves using computer software to simulate the flow of water within piping systems. In distribution water systems, this involves modeling the pumping stations, storage tanks and all distribution water mains within the service territory. For operations, a hydraulic model can be used to identify potential areas of concern, zones of inefficiency, how the system behaves under a variety of scenarios, and how it reacts to operational changes. For planning, a model can identify areas currently limited in capacity and can predict which areas may become overloaded in the near future. This allows for the design and construction of improvements prior to issues arising. **The estimated cost for the 2025-26 portion of this project is $16,000.**

- **2025-26** – **The total estimated cost for wellhead treatment, well screen & well pump bowl replacements, and building upgrades is $21,952,924.**

- **2026-27**

  - **New Well Pump Bowl and Appurtenances for Well No. 30 (Franklin Square)** - **Well Pump No. 30 (Franklin Square)** – In 2026-27, based on the present usage rate, the well pump will have operated for over 70,000 hours since its last replacement in 2013. Well No. 30 has a high iron concentration and over time impedes the well's flow rate, thereby, reducing the pump's lifespan. Design work, bidding of project and construction to be performed in 2026-27. **The estimated cost for the 2026-27 portion of this project is $120,000.**

  - **Design and Contract Administration for a New Well, Booster and AOP Building, VOC Removal Facility Upgrades, Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 35 (Phase III) (Floral Park)** – The Nassau County Department of Health (the "Health Department") is requiring that all public water supply wells, which are located in underground structures, to be raised above the existing grade to help prevent flooding of the well. Well Nos. 35 and 35A are below grade in the same structure and will require the construction of a new well building. The Nassau County Health Department agreed with the Water Authority's decision to bring underground wells above grade at the next scheduled well rehabilitation. The one (1) million gallon (MG) underground water storage tank requires a new roof structure and should also be raised eighteen (18) inches above grade. The existing well and booster pump building will be replaced and will also incorporate the existing AOP system that was installed within a temporary structure. This project involves the replacement of Well Nos. 35 and 35A well pumps, replacement of Booster pump Nos. 35-1, 35-2 and 35-3, new electrical service, emergency generator, fencing and upgrades to the existing VOC Removal Facility. The project will be taking place over three (3) fiscal years. The estimated cost for design and contract administration is $1,862,724. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $7,500,000 towards the cost of this treatment facility. **The estimated cost for the 2026-27 portion of this project is $1,450,728.**

- **Design and Contract Administration for a New Well and AOP Building and 0.5 MG Elevated Storage Tank, VOC Removal Facility Upgrades and Additional Electrical and Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 20 (Phase III) (New Hyde Park)** – This is the second year, of a four (4) fiscal year project. The estimated cost for design and contract administration is $2,856,165. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $11,550,000 towards the cost of this treatment facility. **The estimated cost for the 2026-27 portion of this project is $1,401,699.**

- **Design and Contract Administration for a New Building Structure to Enclose the Existing PFAs Treatment at Station No. 28 (Elmont)** – This is the last year, of a two (2) fiscal year project. The estimated cost for design and contract administration is $373,230. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $2,496,000 towards the cost of this treatment facility. **The estimated cost for the 2026-27 portion of this project is $67,181.**

- **Construction of a New Building Structure to Enclose the Existing PFAs Treatment at Station No. 28 (Elmont)** – This project involves the construction of a permanent building structure to house the existing outdoor GAC vessels for the removal of PFAs from Well No. 28. The GACs for PFA treatment was installed on an emergency basis, as the vessels are currently installed outdoors, with tents enclosing them for protection from the elements. That emergency installation of GAC treatment allowed the Water Authority to meet customer demands and maintain pressure from high water demands of summer pumpage. The estimated cost for construction is $2,848,200. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $2,496,000 towards the cost of this treatment facility. **The estimated cost for the 2026-27 portion of this project is $2,848,200.**

- **Design and Contract Administration for New Buildings, Structures, and Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment at Station No. 44 (Elmont)** – This is the final year, of a four (4) fiscal year project. The estimated cost for design and contract administration is $1,874,700. **The estimated cost for the 2026-27 portion of this project is $109,800.**

- **Construction of New Buildings, Structures, and Electrical and Mechanical Upgrades and PFAs Treatment at Station No. 44 (Elmont)** – This project involves the installation of new well screens and pumps for Well Nos. 44 and 44B, new well pumps for Well Nos. 44A and 44C, the replacement of the existing well buildings, and a new permanent treatment facility for the removal PFAs from the water in the wells at Station No. 44. The GACs for PFA treatment were installed on an emergency basis. The vessels are currently installed outdoors, with tents enclosing them for protection from the elements. The emergency installation of GAC treatment allowed the Water Authority to meet customer demands and maintain pressure from high water demands of summer pumpage.

  In 2024-25 Well No. 44's existing screen, which is one of the system's oldest units currently in service, will be over 50 years old. In 1979, a stainless steel screen liner was installed into the screen to stop the flow of sand through the existing screen and into the well pump bowl. The installation of the screen liner corrected the flow of sand; however, it reduced the flow capacity of the well and increased power costs. Based on the present usage rate, the well pump bowl will have operated for over 69,000 hours since its last replacement in 1992. Well No. 44A's pump, based on the present usage rate, will have operated for over 55,000 hours since its replacement in 1999. Well Nos. 44 and 44A are housed in the same underground structure and will need to be raised above grade according to Nassau County Department of Health Sanitary Code requirements. In addition to bringing Well Nos. 44 and 44A's building above grade, the building which currently houses the booster pumps will also be replaced. Well No. 44B's existing screen will be over 45 years old. Although the Water Authority has not found any signs of sand in Well No. 44B's water, its age and type, (same as Well No. 44) indicates a higher risk of failure. The Water Authority plans to monitor the well's specific capacity to determine any problems with the well screen. Based on the present usage rate, the well pump bowl will have operated for over 44,000 hours since its last replacement in 2015. Well No. 44C's pump, based on the present usage rate, will have operated for over 52,000 hours since its replacement in 1994. Well Nos. 44B and 44C housed are in the same underground structure and will need to be raised above grade in a new building according to Nassau County Department of Health Sanitary Code requirements.

  In addition to the well work, the three (3) booster pumps at this station will be replaced, two emergency generators will be installed for stand-by emergency power and the existing fence will be replaced. The fence is in poor condition due to numerous patches from security issues along the southern property line. Plans are to replace the existing fence fabric with maintenance-free, vinyl coated fence fabric. Approximately 1,520 feet of fence is in need of replacement. This is the final year, of a three (3) fiscal year project. The project cost for construction is $24,584,200. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $4,930,200 toward the cost of this treatment facility. **The estimated cost for the 2026-27 portion of this project is $2,458,420.**

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- **Design and Contract Administration for a New Iron Removal Facility at Station No. 34 (Valley Stream) –** Well No. 34 has high levels of iron due to the characteristics of the aquifer where the well is located (southern portion of Long Island). High iron levels in the water may lead to discolored water issues that affect the customers, such as staining of clothing and discoloration of plumbing fixtures. High levels of iron can also add a metallic taste to the water. Presently, iron in the water from Well No. 34 must be sequestered (a sequestering agent combines with the iron in the water to prevent discoloration of the water) before it is pumped into the distribution system; however the iron levels have increased and are at a level that can no longer be sequestered. Well No. 34 was removed from service in 2011, due to its high iron levels. In order to continue providing a reliable water service to our customers, a new iron removal plant is required for Well No. 34. Well No. 34 is capable of producing 2.4 million gallons per day. This is the first year, of a two (2) fiscal year project. The estimated cost for design and contract administration is $1,040,000. **The estimated cost for the 2026-27 portion of this project is $910,000.**

- **Construction of a New Iron Removal Facility at Station No. 34 (Valley Stream)** – This project involves the construction of a new Iron Removal Plant for the removal of iron in Well No. 34. The existing well building shall be replaced with a new iron removal facility/well building, along with a new sewer connection to facilitate the iron removal process. This is the first year, of a two (2) fiscal year project. The estimated cost for construction is $6,825,000. **The estimated cost for the 2026-27 portion of this project is $1,706,250.**

- **Design and Contract Administration for EPA Emerging Contaminants at Station Nos. 15, 15A/B, 15C/E & 15D (Elmont)** – The EPA announced its final rule for PFAS compounds. They are increasing the number of different PFAs compounds required for testing and reducing its maximum allowable contaminant level for PFOA and PFOS (which will be lower than NYSDOH's maximum allowable contaminant level). There is an initial three (3) year monitoring period (2024 – 2027), followed by rule promulgation (2027 – 2029) and final compliance for the final rule begins in 2029. The Water Authority has identified the wells at Station No. 15 (Well Nos. 15A, 15B, 15C, 15D & 15E) will require PFAs removal to meet these new requirements. This project involves the construction of two (2) new building structures and ten (10) new GAC vessels. The cost for design and contract administration is $1,516,500. This is the second year, of a four (4) fiscal year project. **The estimated cost for the 2026-27 portion of this project is $438,120.**

- **Construction of New Buildings, Structures, and Electrical and Mechanical Upgrades for EPA Emerging Contaminants at Station Nos. 15, 15A/B, 15C/E & 15D (Elmont)** – The EPA announced its final rule for PFAS compounds. They are increasing the number of different PFAs compounds required for testing and reducing its maximum allowable contaminant level for PFOA and PFOS (which will be lower than NYSDOH's maximum allowable contaminant level). The Water Authority has identified the wells at Station No. 15 (Well

Nos. 15A, 15B, 15C, 15D & 15E) will require PFAs removal to meet these new requirements. This project involves the construction of two (2) new building structures and ten (10) new GAC vessels for PFAS Removal. The estimated cost for construction is $15,230,050. This is the first year, of a two (2) fiscal year project. **The estimated cost for the 2026-27 portion of this project is $9,138,030.**

- **2026-27 – The total estimated cost for wellhead treatment, well screen & well pump bowl replacements, and building upgrades is $20,648,428.**

- **2027-28**
  - **Design and Contract Administration for a New Well, Booster and AOP Building, VOC Removal Facility Upgrades, Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 35 (Phase III) (Floral Park)** – The Nassau County Department of Health (the "Health Department") is requiring that all public water supply wells, which are located in underground structures, to be raised above the existing grade to help prevent flooding of the well. Well Nos. 35 and 35A are below grade in the same structure and will require the construction of a new well building. The Nassau County Health Department agreed with the Water Authority's decision to bring underground wells above grade at the next scheduled well rehabilitation. The one (1) million gallon (MG) underground water storage tank requires a new roof structure and should also be raised eighteen (18) inches above grade. The existing well and booster pump building will be replaced and will also incorporate the existing AOP system that was installed within a temporary structure. This project involves the replacement of Well Nos. 35 and 35A well pumps, replacement of Booster pump Nos. 35-1, 35-2 and 35-3, new electrical service, emergency generator, fencing and upgrades to the existing VOC Removal Facility. This is the second year, of a three (3) fiscal year project. The estimated cost for design and contract administration is $1,862,724. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $7,500,000 towards the cost of this treatment facility. **The estimated cost for the 2027-28 portion of this project is $204,182.**

  - **Construction of a New Well, Booster and AOP Building, VOC Removal Facility Upgrades and Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 35 (Phase III) (Floral Park)** – The Nassau County Department of Health (the "Health Department") is requiring that all public water supply wells, which are located in underground structures, to be raised above the existing grade to help prevent flooding of the well. Well Nos. 35 and 35A are below grade in the same structure and will require the construction of a new well building. The Nassau Health Department agreed with the Water Authority's decision to bring underground wells above grade at the next scheduled well rehabilitation. The existing well and booster pump building will be replaced and will also incorporate the AOP system that was installed within a temporary structure. The one (1) million gallon (MG) underground water storage tank requires a new roof

structure and should also be raised eighteen (18) inches above grade. This project involves the replacement of Well Nos. 35 and 35A's well pump, replacement of Booster pump Nos. 35-1, 35-2 and 35-3, new electrical service, emergency generator, fencing and upgrades to the existing VOC Removal Facility. The project will be taking place over two (2) fiscal years. The estimated cost for construction is $9,369,485. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $7,500,000 towards the cost of this treatment facility. **The estimated cost for the 2027-28 portion of this project is $4,721,691.**

- **Design and Contract Administration for a New Well and AOP Building and 0.5 MG Elevated Storage Tank, VOC Removal Facility Upgrades and Additional Electrical and Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 20 (Phase III) (New Hyde Park)** – This is the third year, of a four (4) fiscal year project. The estimated cost for design and contract administration is $2,856,165. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $11,550,000 towards the cost of this treatment facility. **The estimated cost for the 2027-28 portion of this project is $312,000.**

- **Construction of a New Well and AOP Building and 0.5 MG Elevated Storage Tank, VOC Removal Facility Upgrades and Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 20 (Phase III) (New Hyde Park)** – The existing well pump building will be replaced and will incorporate an AOP treatment system for the removal of 1,4-Dioxane. This project involves the replacement of Well No. 20, FWP No. 20-1 and Tank No. 10 (0.5 MG Elevated Water Storage Tank), new electrical service, fencing, site improvements with respect to the grading and upgrades to the existing VOC Removal Facility. Water storage Tank No. 10, is beyond its useful life. The tank utilizes a riveted tank shell along with the obsolete "I-Beam" leg structure. The Water Authority proposes to replace Tank No. 10 with a single pedestal, elliptical sphere tank. The new style tank will decrease the O&M costs over its lifecycle. The project will be taking place over two (2) fiscal years. The estimated cost for construction is $17,001,504. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $11,550,000 towards the cost of this treatment facility. **The estimated cost for the 2027-28 portion of this project is $10,200,902.**

- **Design and Contract Administration for a New Iron Removal Facility at Station No. 34 (Valley Stream)** – Well No. 34 has high levels of iron due to the characteristics of the aquifer where the well is located (southern portion of Long Island). High iron levels in the water may lead to discolored water issues that affect the customers, such as staining of clothing and discoloration of plumbing fixtures. High levels of iron can also add a metallic taste to the water. Presently, iron in the water from Well No. 34 must be sequestered (a sequestering agent combines with the iron in the water to prevent discoloration of the water) before it is pumped into the distribution system; however the iron levels have

increased and are nearing the level that can no longer be sequestered. Well No. 34 was removed from service in 2011, due to its high iron levels. In order to continue providing a reliable water service to our customers, a new iron removal plant is required for Well No. 34. Well No. 34 is capable of producing 2.4 million gallons per day. The estimated cost for design and contract administration is $1,040,000. This is the last year, of a two (2) fiscal year project. **The estimated cost for the 2027-28 portion of this project is $130,000.**

- **Construction of a New Iron Removal Facility at Station No. 34 (Valley Stream)** – This project involves the construction of a new Iron Removal Plant for the removal of iron from Well No. 34. The existing well building shall be replaced with a new iron removal facility/well building; along with a new sewer connection to facilitate the iron removal process. This is the last year, of a two (2) fiscal year project. The estimated cost for construction is $6,825,000. **The estimated cost for the 2027-28 portion of this project is $5,118,750.**

- **Design and Contract Administration for EPA Emerging Contaminants at Station Nos. 15, 15A/B, 15C/E & 15D (Elmont)** – The EPA announced its final rule for PFAS compounds. They are increasing the number of different PFAs compounds required for testing and reducing its maximum allowable contaminant level for PFOA and PFOS (which will be lower than NYSDOH's maximum allowable contaminant level). There is an initial three (3) year monitoring period (2024 – 2027), followed by rule promulgation (2027 – 2029) and final compliance for the final rule begins in 2029. The Water Authority has identified the wells at Station No. 15 (Well Nos. 15A, 15B, 15C, 15D & 15E) will require PFAs removal to meet these new requirements. This project involves the construction of two (2) new building structures and ten (10) new GAC vessels. The cost for design and contract administration is $1,516,500. This is the final year, of a four (4) fiscal year project. **The estimated cost for the 2027-28 portion of this project is $146,040.**

- **Construction of New Buildings, Structures, and Electrical and Mechanical Upgrades for EPA Emerging Contaminants at Station Nos. 15, 15A/B, 15C/E & 15D (Elmont)** – The EPA announced its final rule for PFAS compounds. They are increasing the number of different PFAs compounds required for testing and reducing its maximum allowable contaminant level for PFOA and PFOS (which will be lower than NYSDOH's maximum allowable contaminant level). The Water Authority has identified the wells at Station No. 15 (Well Nos. 15A, 15B, 15C, 15D & 15E) will require PFAs removal to meet these new requirements. This project involves the construction of two (2) new building structures and ten (10) new GAC vessels for PFAS Removal. The estimated cost for construction is $15,230,050. This is the first year, of a two (2) fiscal year project. **The estimated cost for the 2027-28 portion of this project is $6,092,020.**

- **2027-28 – The total estimated cost for wellhead treatment, well screen & well pump bowl replacements, and building upgrades is $26,925,585.**

- **2028-29**

  - **Design and Contract Administration for a New Well, Booster and AOP Building, VOC Removal Facility Upgrades, Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 35 (Phase III) (Floral Park)** – The Nassau County Department of Health (the "Health Department") is requiring that all public water supply wells, which are located in underground structures, to be raised above the existing grade to help prevent flooding of the well. Well Nos. 35 and 35A are below grade in the same structure and will require the construction of a new well building. The Nassau County Health Department agreed with the Water Authority's decision to bring underground wells above grade at the next scheduled well rehabilitation. The one (1) million gallon (MG) underground water storage tank requires a new roof structure and should also be raised eighteen (18) inches above grade. The existing well and booster pump building will be replaced and will also incorporate the existing AOP system that was installed within a temporary structure. This project involves the replacement of Well Nos. 35 and 35A well pumps, replacement of booster pump Nos. 35-1, 35-2 and 35-3, new electrical service, emergency generator, fencing and upgrades to the existing VOC Removal Facility. This is the final year, of a three (3) fiscal year project. The estimated cost for design and contract administration is $1,862,724. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $7,500,000 towards the cost of this treatment facility. **The estimated cost for the 2028-29 portion of this project is $207,814.**

  - **Construction of a New Well, Booster and AOP Building, VOC Removal Facility Upgrades and Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 35 (Phase III) (Floral Park)** – The Nassau County Department of Health (the "Health Department") is requiring that all public water supply wells, which are located in underground structures, to be raised above the existing grade to help prevent flooding of the well. Well Nos. 35 and 35A are below grade in the same structure and will require the construction of a new well building. The Nassau Health Department agreed with the Water Authority's decision to bring underground wells above grade at the next scheduled well rehabilitation. The existing well and booster pump building will be replaced and will also incorporate the AOP system that was installed within a temporary structure. The one (1) million gallon (MG) underground water storage tank requires a new roof structure and should also be raised eighteen (18) inches above grade. This project involves the replacement of Well Nos. 35 and 35A's well pump, replacement of booster pump Nos. 35-1, 35-2 and 35-3, new electrical service, emergency generator, fencing and upgrades to the existing VOC Removal Facility. This is the final year, of a two (2) fiscal year project. The estimated cost for construction is $9,369,485. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $7,500,000 towards the cost of this treatment facility. **The estimated cost for the 2028-29 portion of this project is $4,647,794.**

- **Design and Contract Administration for a New Well and AOP Building and 0.5 MG Elevated Storage Tank, VOC Removal Facility Upgrades and Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 20 (Phase III) (New Hyde Park)** – This is the last year, of a three (3) fiscal year project. The estimated cost for design and contract administration is $2,856,165. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $208,000 towards the cost of this treatment facility. **The estimated cost for the 2028-29 portion of this project is $208,000.**

- **Construction of a New Well and AOP Building and 0.5 MG Elevated Storage Tank, VOC Removal Facility Upgrades and Additional Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility at Station No. 20 (Phase III) (New Hyde Park)** – This is the last year, of a two (2) fiscal year project. The estimated cost for construction is $17,001,504. The Water Authority received a New York State Water Infrastructure Improvement (WIIA) grant in the amount of $11,550,000 towards the cost of this treatment facility. **The estimated cost for the 2028-29 portion of this project is $6,800,602.**

- **2028-29 – The total estimated cost for wellhead treatment, well screen & well pump bowl replacements and building upgrades is $11,864,210.**

- **The total estimated cost for wellhead treatment for emerging contaminants, well screen & well pump bowl replacements and building upgrades is $103,076,839 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Distribution Reservoirs and Standpipes

- **2024-25**
  - **Rehabilitation of Tank No. 20 (Elmont)** – Water storage tanks generally need to be rehabilitated every 18 to 23 years in order to protect the tank from corrosion. The rehabilitation of Tank No. 20 will include the cleaning of the interior and exterior surfaces of the tank, removing lead-based paint from the exterior surfaces of the tank, performing interior and exterior repairs, as needed and updating OSHA safety and security equipment on the tank followed by the coating of the interior and exterior surfaces of the tank. The construction of this project started 2022 and will continue until the contractual obligations are fulfilled. **The estimated cost for the 2024-25 portion of this project is $1,741,688.**
  - **Construction Inspection Services Tank No. 20 for Rehabilitation (Elmont)** – Tank No. 20 is an elevated water storage tank that is in need of coating and rehabilitation work. Construction inspections are performed on water storage tanks during the work of rehabilitating and coating to determine what part of the rehabilitation need corrective actions. For example, they will use holiday detectors to make sure there are no voids in the new coating. The construction inspection services on this project will continue until the contractual obligations are fulfilled by the contractor. **The estimated cost for this portion of the project is $294,250.**
  - **2024-25 -- The total estimated cost for distribution reservoirs and standpipes is $2,035,938.**
- **2025-26**
  - **Exterior Overcoat for Tank No. 5 (Elmont)** – Water storage tanks generally need to be rehabilitated every 18 to 23 years in order to protect the tank from corrosion. Tank No. 5 last received rehabilitation in 1999-2000. The interior coating system of the tank is in satisfactory condition and the exterior coating of the tank is in poor condition. Therefore, the Water Authority is proposing to pressure wash the exterior surfaces of the tank, spot treat the portions of corrosion and apply a new topcoat of paint. The new topcoat should allow Tank No. 5 to remain in-service an additional six (6) to eight (8) years before a full rehabilitation is required. **The estimated cost for the 2025-26 portion of this project is $550,000.**
  - **Design and Construction Inspection Services Tank No. 5 for Rehabilitation (Elmont)** – Tank No. 5 is a ground water storage tank that is in need of new topcoat of paint on the exterior of the tank. Construction inspections are performed on water storage tanks during the work of apply a new topcoat to determine what part of the rehabilitation need corrective actions. For example, measuring dry film thickness to make sure the new topcoat is going to protect the tank. **The estimated cost for the 2025-26 portion of this project is $124,500.**
  - **2025-26 -- The total estimated cost for distribution reservoirs and standpipes is $674,500.**

- **The total estimated cost for distribution reservoirs and standpipes is $2,710,438 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Meters

- **Meter Change Outs** -- This line item includes the cost of replacing malfunctioning meters and the planned replacement of our older and/or high usage meters. Based on past history, we are forecasting the annual replacement of 160 defective meters that malfunction due to freezing, mechanical failure or any other situation that may cause a meter to cease operating properly; and the installation of 20 new meters annually. We also included for the planned replacement of 952 of our older and/or high usage meters and the replacement of 1 large meter in 2024-2025. This will assure accurate and expedient processing of our customer's bills, and avoid problems to the Water Authority caused by malfunctioning meters. The estimated costs of materials, labor and overheads required to perform these installations by year is as follows:

Year	Cost
2024-25	$266,365
2025-26	$274,356
2026-27	$282,587
2027-28	$291,065
2028-29	$299,797
Total	**$1,414,170**

- **Radio Read System & Other Equipment** -- This line item represents the estimated costs of materials, labor and overheads required to ensure the continued operations of our radio reading system. The estimated cost by year for 600 Radios per year is as follows:

Year	Cost
2024-25	$126,937
2025-26	$130,746
2026-27	$134,668
2027-28	$138,708
2028-29	$142,869
Total	**$673,928**

5-Year Meter Summary

Year	Change Outs	Radio Read	Total Costs
2024-25	$266,365	$126,937	$393,302
2025-26	$274,356	$130,746	$405,102
2026-27	$282,587	$134,668	$417,255
2027-28	$291,065	$138,708	$429,773
2028-29	$299,797	$142,869	$442,666
Totals	**$1,414,170**	**$673,928**	**$2,088,098**

- **The total estimated cost for meters/radios is $2,088,098 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Transmission and Distribution

Main Installations -- This line item includes the replacement of leaking mains, undersized mains, mains which are beyond their useful life, new main installations for new customers, new mains to loop dead end mains, gate valve replacements, and valve box replacements in conjunction with municipal highway projects. Scheduled main replacements will improve water quality and fire protection pressures. Design work and construction, for projects given to the Water Authority's annual water main contractor, are performed throughout the year.

- **2024-25**
  - Replacement of existing 6-inch and 8-Inch water mains with a new cement line ductile iron 6-inch and 8-inch class 56 water mains in Floral Park. This is the first phase of construction of the reduced scope. This phase of water main replacement project will start and finish in the fiscal year of 2024-25. A detailed summary of the specific streets are included in the Floral Park main replacement design plans. There are eight (8) streets of full main replacement for Floral Park under a reduced scope. The existing mains experienced poor pressure and low flows during the main flushing program. All the valves feeding the main were checked to determine if any of the valves were in the closed position. No closed valves were found. The work will improve the water quality, water flow, fire protection in the area, will reduce discolored water complaints and eliminate any existing lead and iron pipe services. The work to replace Floral Park will require the installation of approximately 9,700 feet of 6-inch water main, and 4,000 feet of 8-inch water main. There will be a replacement of 19 fire hydrants and the replacement of 400 1-inch water services. The estimated costs for this project are as follows:

Account	Quantity	Cost
Mains (feet)	13,700	$6,681,066
Hydrants	19	$395,200
Services	400	$1,450,240
	Total	**$8,526,506**

  - It is estimated that 15 gate valves with valve boxes will be replaced by Water Authority personnel throughout the territory. The Water Authority plans to put redundant gate valves before the interconnections for testing purposes. **The estimated cost for this work is $123,505.**
  - Two municipal projects, which are scheduled to be performed during the year, will impact the Water Authority. It is estimated that 10 gate boxes will require replacement during the course of these projects. **The estimated cost for this work is $35,204.**
  - **2024-25 -- The total estimated cost for the water main portion of these installation projects is $8,685,215.**

- **2025-26**
  - It is estimated that 15 gate valves will be replaced by Water Authority personnel throughout the territory. **The estimated cost for this work is $125,215.**
  - Two municipal projects, which are scheduled to be performed during the year, will impact the Water Authority. It is estimated that 10 gate boxes will require replacement during the course of these projects. **The estimated cost for this work is $36,344.**
  - **2025-26 -- The total estimated cost for the water main portion of these installation projects is $161,559.**

- **2026-27**
  - It is estimated that 15 gate valves will be replaced by Water Authority personnel throughout the territory. **The estimated cost for this work is $133,280.**
  - Two municipal projects, which are scheduled to be performed during the year, will impact the Water Authority. It is estimated that 10 gate boxes will require replacement during the course of these projects. **The estimated cost for this work is $37,004.**
  - **2026-27 -- The total estimated cost for the water main portion of these installation projects is $170,284.**

- **2027-28**
  - Replacement of existing 6-inch and 8-Inch water mains with a new cement line ductile iron 6-inch and 8-inch class 56 water mains in Floral Park. This is the second phase of construction of the reduced scope. This phase of the water main replacement project will start and finish in the fiscal year of 2027-28. A detailed summary of the specific streets are included in the Floral Park main replacement design plans. There are nine (9) streets of full main replacement for Floral Park under a reduced scope. The existing mains experienced poor pressure and low flows during the main flushing program. All the valves feeding the main were checked to determine if any of the valves were in the closed position. No closed valves were found. The work will improve the water quality, water flow, fire protection in the area, will reduce discolored water complaints and eliminate any existing lead and iron pipe services. The work to replace Floral Park will require the installation of approximately 5,600 feet of 6-inch water main, and 3,480 feet of 8-inch water main. There will be a replacement of 17 fire hydrants and the replacement of 215 1-inch water services. The estimated costs for this project are as follows:

Account	Quantity	Cost
Mains (feet)	9,080	$4,824,577
Hydrants	17	$323,000
Services	215	$865,042
	Total	**$6,012,619**

- It is estimated that 15 gate valves will be replaced by Water Authority personnel throughout the territory. **The estimated cost for this work is $135,320.**
- Two municipal projects, which are scheduled to be performed during the year, will impact the Water Authority. It is estimated that 10 gate boxes will require replacement during the course of these projects. **The estimated cost for this work is $38,364.**
- **2027-28 -- The total estimated cost for the water main portion of these installation projects is $6,186,303.**

- **2028-29**
  - It is estimated that 15 gate valves will be replaced by Water Authority personnel throughout the territory. **The estimated cost for this work is $144,120.**
  - Two municipal projects, which are scheduled to be performed during the year, will impact the Water Authority. It is estimated that 10 gate boxes will require replacement during the course of these projects. **The estimated cost for this work is $39,052.**
  - **2028-29 -- The total estimated cost for the water main portion of these installation projects is $183,172.**

- **The total estimated cost, for water main related replacements and installations, is $15,386,533 over the five-year forecast.**

Hydrant Installations -- This line includes the replacement of damaged or unrepairable hydrants, hydrants replaced in conjunction with water main replacement programs, and the installation of new hydrants requested by fire departments. A new gate valve will be installed on the branch line feeding the hydrants if there is presently no gate valve. The gate valves on the branch lines allow work to be performed on hydrants without shutting down water mains. Hydrants will be replaced throughout the year by Water Authority personnel. All hydrant replacements on water main replacements projects will be performed by the Water Authority's annual water main contractor.

- **2024-25**
  - It is estimated that 20 hydrants with new branch line gate valves will be replaced by Water Authority personnel throughout the territory at an estimated cost of $190,000.
  - It is estimated that 6 hydrants will be replaced by Water Authority personnel throughout the territory at an estimated cost of $24,853.
  - **2024-25 -- The total estimated cost for hydrant installations is $214,993.**
- **2025-26**
  - It is estimated that 20 hydrants with new branch line gate valves will be replaced by Water Authority personnel throughout the territory at an estimated cost of $196,120.
  - It is estimated that 6 hydrants will be replaced by Water Authority personnel throughout the territory at an estimated cost of $26,040.
  - **2025-26 -- The total estimated cost for hydrant installations is $222,160.**
- **2026-27**
  - It is estimated that 20 hydrants with new branch line gate valves will be replaced by Water Authority personnel throughout the territory at an estimated cost of $205,760.
  - It is estimated that 6 hydrants will be replaced by Water Authority personnel throughout the territory at an estimated cost of $27,310.
  - **2026-27 -- The total estimated cost for hydrant installations is $233,070.**
- **2027-28**
  - It is estimated that 20 hydrants with new branch line gate valves will be replaced by Water Authority personnel throughout the territory at an estimated cost of $212,600.
  - It is estimated that 6 hydrants will be replaced by Water Authority personnel throughout the territory at an estimated cost of $28,617.
  - **2027-28 -- The total estimated cost for hydrant installations is $241,217.**

- **2028-29**
  - It is estimated that 20 hydrants with new branch line gate valves will be replaced by Water Authority personnel throughout the territory at an estimated cost of $227,540.
  - It is estimated that 6 hydrants will be replaced by Water Authority personnel throughout the territory at an estimated cost of $31,314.
  - **2028-29 -- The total estimated cost for hydrant installations is $258,854.**
- **The total estimated cost for hydrant replacements and the installation of new hydrants is $1,170,294 over the five-year forecast.**

Service Installations -- This line includes replacement of leaking water services, the replacement of services which are beyond their useful life, curb stop installations for leak determinations, shut-offs for repairs and shut-offs for nonpayment. Services up to 1-inch in diameter will be installed by Water Authority personnel; any larger services will be installed by the Water Authority's annual water main contractor. All water service replacements on water main replacements projects will be performed by the Water Authority's annual water main contractor. Services are installed throughout the year.

- **2024-25**
  - Complete service replacements – It is estimated that 70 complete service replacements will be performed by Water Authority personnel at a cost of $371,140.
  - Partial service replacements – It is estimated that 12 partial service replacements will be performed by Water Authority personnel. The total estimated cost for partial service replacements is $31,801.
  - Curb stop installations – It is estimated that 70 curb stop installations will be performed by Water Authority personnel. The total estimated cost for curb stop installations is $44,288.
  - Abandon Taps – It is estimated that 18 taps will be abandoned. The work will be performed by Water Authority personnel at a cost of $45,000.
  - Lead service replacements – It is estimated that 200 complete lead service replacements will be performed by Water Authority personnel at a cost of $1,060,400.
  - **2024-25 -- The total estimated cost for service installations is $1,552,629.**
- **2025-26**
  - Complete service replacements – It is estimated that 70 complete service replacements will be performed by Water Authority personnel at a cost of $381,430.
  - Partial service replacements – It is estimated that 12 partial service replacements will be performed by Water Authority personnel. The total estimated cost for partial service replacements is $32,687.
  - Curb stop installations – It is estimated that 70 curb stop installations will be performed by Water Authority personnel. The total estimated cost for curb stop installations is $45,226.
  - Abandon Taps – It is estimated that 18 taps will be abandoned. The work will be performed by Water Authority personnel at a cost of $45,000.
  - Lead service replacements – It is estimated that 200 complete lead service replacements will be performed by Water Authority personnel at a cost of $1,089,800.
  - **2025-26 -- The total estimated cost for service installations is $1,594,143.**

- **2026-27**
  - Complete service replacements – It is estimated that 70 complete service replacements will be performed by Water Authority personnel at a cost of $393,680.
  - Partial service replacements – It is estimated that 12 partial service replacements will be performed by Water Authority personnel. The total estimated cost for partial service replacements is $33,736.
  - Curb stop installations – It is estimated that 70 curb stop installations will be performed by Water Authority personnel. The total estimated cost for curb stop installations is $47,494.
  - Abandon Taps – It is estimated that 18 taps will be abandoned. The work will be performed by Water Authority personnel at a cost of $45,000.
  - Lead service replacements – It is estimated that 200 complete lead service replacements will be performed by Water Authority personnel at a cost of $1,124,800.
  - **2026-27 -- The total estimated cost for service installations is $1,644,710.**
- **2027-28**
  - Complete service replacements – It is estimated that 70 complete service replacements will be performed by Water Authority personnel at a cost of $404,600.
  - Partial service replacements – It is estimated that 12 partial service replacements will be performed by Water Authority personnel. The total estimated cost for partial service replacements is $34,672.
  - Curb stop installations – It is estimated that 70 curb stop installations will be performed by Water Authority personnel. The total estimated cost for curb stop installations is $48,489.
  - Abandon Taps – It is estimated that 18 taps will be abandoned. The work will be performed by Water Authority personnel at a cost of $45,000.
  - Lead service replacements – It is estimated that 200 complete lead service replacements will be performed by Water Authority personnel at a cost of $1,156,000.
  - **2027-28 -- The total estimated cost for service installations is $1,688,761.**
- **2028-29**
  - Complete service replacements – It is estimated that 70 complete service replacements will be performed by Water Authority personnel at a cost of $417,830.
  - Partial service replacements – It is estimated that 12 partial service replacements will be performed by Water Authority personnel. The total estimated cost for partial service replacements is $35,802.
  - Curb stop installations – It is estimated that 70 curb stop installations will be performed by Water Authority personnel. The total estimated cost for curb stop installations is $50,947.

- Abandon Taps – It is estimated that 18 taps will be abandoned. The work will be performed by Water Authority personnel at a cost of $45,000.
- Lead service replacements – It is estimated that 200 complete lead service replacements will be performed by Water Authority personnel at a cost of $1,193,800.
- **2028-29 -- The total estimated cost for service installations is $1,743,379.**
- **The total estimated cost for service installations is $8,223,622 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Computer Equipment

Equipment contained in the Capital Plan includes the following types of hardware and software, which will normally be replaced according to the schedules listed.

Hardware

- **Servers** -- Network servers include applications for our Customer Information System (CIS), file and printer sharing, email, calendaring, Internet access and team communications**. The estimated cost for this project is $128,000 over the five-year forecast.**
- **Desktop/Laptop Computers** -- The Water Authority has standardized with Dell desktop computers and typically operates under a 5-year replacement life cycle per system through upgrade procedures and rotating resources as they age. **The estimated cost for this project is $69,500 over the five-year forecast.**
- Users with more powerful computing requirements such as for computer-based modeling and design and control system applications utilize Dell Workstations. These users tend to require a faster replacement and upgrade cycle, but using a rotation scheme normally allows these systems to fall within the standard replacement cycle.
- Due to inherent limitations with the ability to upgrade laptop computers, these devices typically are replaced within a 3 to 5 year cycle.
- **Network Hardware** -- Network infrastructure devices include items such as routers, firewalls, switches, hubs and testing equipment. These devices typically have a life span of 5 to 7 years. **The estimated cost for this project is $47,800 over the five-year forecast.**
- **Peripherals** -- This category includes devices such as monitors, printers, uninterruptible power supplies (UPS), tape drives, etc. and they typically operate on a 3 to 5 year life cycle. **The estimated cost for this project is $17,550 over the five-year forecast.**

- **The total estimated cost for computer hardware is $262,850 over the five-year forecast.**

Specialized Hardware

- **Customer Information System Hardware** -- The Water Authority's Customer Information System operates on an IBM RS/6000 server as provided and configured by our CIS vendor. CIS replacement can typically be estimated in a 5 to 7 year cycle with upgrades in a 3 to 5 year cycle. The amount of $1,600,000 for a Customer Information System (CIS) upgrade is included in the Capital Plan for fiscal year 2026-27. The Water Authority has used Systems and Software (S&S) enQuesta CIS since 1996, originally chosen from multiple vendors due to its integrated Financial Management System (FMS).

  Several years ago, S&S announced that it would no longer support or maintain the financial modules. After customer outcry, they decided to continue support the financial modules in their current state with no upgrades beyond essential fixes.

At this point in time, the Water Authority will be seeking a fully integrated CIS with financials that will serve the customer base through current connectivity to payment and account information. This capital project will include the cost of hardware, software, maintenance, as well as all on and off-site tasks involved in the upgrading and conversion of the current system to a newly selected CIS/FMS.

- **The total estimated cost for specialized hardware is $1,635,750 over the five-year forecast.**

Copiers

- Multi-function copiers (copier, scanner, fax) have an estimated life cycle of 5 years.
- **The total estimated cost for copiers is $15,000 over the five-year forecast.**

Security

- This line item includes the replacement of security equipment including cameras, scanners, motion detectors, locks and keys, and their accessories.
- **The total estimated cost for security equipment is $85,960 over the five-year forecast**

Telcom

- **Routine replacement of mobile devices** – this project involves the replacement of broken mobile devices and the upgrading of these devices as technology changes. **The estimated cost for this project is $6,500 over the five year forecast.**
- **The total estimated cost for telecommunications equipment is $6,500 over the five-year forecast.**

5-Year Computer Equipment Summary

Year	Cost
2024-25	$115,892
2025-26	1,668,192
2026-27	65,992
2027-28	107,992
2028-29	47,992
Total	**$2,006,060**

- **The total estimated cost for all computer related equipment is $2,006,060 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Vehicles

The line item for Vehicles includes the following:

- **2024-25**
  - **Replacement of Vehicle No. 411 – 2011 Ford F550** -- This vehicle has mileage in excess of 130,000 miles and will be over 13 years old at the time of replacement. Same vehicle as 412 (see line below), not as problematic, but repair costs are above average. Recommended replacement is a F350 super cab with dual rear wheels and a 9' utility body. **The estimated cost for the replacement of this vehicle is $115,624.**

  - **Replacement of Vehicle No. 412 – 2011 Ford F550 --** This vehicle has been extremely problematic with repairs in excess of $30,000 for repair and oil leak in the engine. The new engine was installed in 2018 and developed major leaks in 2020. Recommended replacement is with a F350 super cab with dual rear wheels and a 9' utility body. **The estimated cost for the replacement of this vehicle is $115,624.**

  - **Replacement of Vehicle No. 206 – 2006 Ford E250 Van --** This vehicle is over 18 years old and requires an upper engine rebuild (new cylinder heads, camshaft, lifters and gaskets). Recommended replacement is with a E250 van. **The estimated cost for the replacement of this vehicle is $53,500.**

  - **Utility Vehicle for Plant Department --** This vehicle will be a F450 super cab with dual rear wheels and a 9' utility body. **The estimated cost for this vehicle is $127,922.**

  - **Mini Excavator and Trailer for T&D Department –** This new class of mini excavators combine power, efficiency and reliability with the ability to work productively in tight locations. The smaller bucket size on the mini excavators will also minimize restoration costs. **The estimated cost for this mini excavator and trailer is $74,000.**

  - **2024-25 -- The total estimated cost for vehicles is $486,670.**

- **2025-26**
  - **Replacement of Vehicle No. 506 (2015 Case 590 Super N)** – This T&D excavator has in excess of 10,000 operating hours at this time. The vehicle is used as the T&D excavator for water main/service repairs and/or replacements. Recommended replacement is with a similar excavator. **The estimated cost for the replacement of this vehicle is $160,000.**

- **Sub-Compact 4WD Pick-Up** – The Water Plant Operators in Plant Operations are currently utilizing a 2018 Ford Escape. This vehicle has been problematic with numerous repairs. Even though the engine has been replaced under warranty, the vehicle has spent at least two (2) months in last year at the repair shop for coolant and suspension issues. The Water Plant Operators must perform station inspections 2-3 times per day, seven days per week. It is imperative that they have a reliable vehicle. **The estimated cost for this vehicle is $50,000.**
- **2025-26 -- The total estimated cost for vehicles is $210,000.**

- **2026-27**
  - **Replacement of Vehicle No. 209 (2010 Ford E250 Van)** – This vehicle is over 16 years old and will have in excess of 150,000 miles. 209 is currently assigned to Customer Service. Recommended replacement is with a similar E250 van. **The estimated cost for the replacement of this vehicle is $56,000.**
  - **Replacement of Vehicle No. 410 (2006 Chevrolet Workhorse Step Van)** – This vehicle is used in Plant Operations. The driving position is awkward and uncomfortable. The recommended replacement is with a high roof cargo van. **The estimated cost for the replacement of this vehicle is $68,000.**
  - **2026-27 -- The total estimated cost for vehicles is $124,000.**

- **2027-28**
  - **Replacement of Vehicle No. 414 (2014 Ford F350)** – This vehicle will have mileage in excess of 140,000 miles, and will be over 13 years old at the time of replacement. The vehicle is presently used for plant maintenance and was previously used as a patrol vehicle. Recommended replacement is with a utility vehicle with selected bin and lighting options. **The estimated cost for the replacement of this vehicle is $128,000.**
  - **2027-28 -- The total estimated cost for vehicles is $128,000.**

- **2028-29**
  - **Replacement of Vehicle No. 305 (2016 Ford F150)** – This vehicle will have mileage in excess of 120,000 miles, and will be over 10 years old at the time of replacement. The vehicle is presently used for the distribution inspector. Recommended replacement is with a like utility vehicle. **The estimated cost for the replacement of this vehicle is $70,000.**
  - **2028-29 -- The total estimated cost for vehicles is $70,000.**

- **The total estimated cost for vehicle replacements is $1,018,670 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Large Tools & Equipment

This line item includes the purchase of the following items:

- **2024-25**

T & D and Customer Service Departments

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Wachs Standard Hydraulic Handheld Valve Execiser P2	1	$8,745	$8,745
2	Pollard Service Line Replacement Kit with T-Type Grips	1	$1,400	$1,400
3	Magnetic locator	2	$1,200	$2,400
4	Telescopic Valve Key – 2" AWWA	1	$595	$595
5	90 lb. Jack Hammer	1	$1,500	$1,500
	Total			**$14,640**

Plant Operations Department

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Zero Turn 54" Ride On Mower	1	$19,000	$ 19,000
2	Backpack Leaf Blower	2	$850	$1,700
3	String Edger	1	$550	$550
4	Snow Blower	2	$2,300	$4,600
5	Pole Chain Saw	1	$800	$800
	Total			**$26,650**

Postage Machine – The existing postage machine is being phased out by the United States Postal Service ("USPS"). USPS has added new security features into the new postage machines. **The cost for a new postage machine is $4,441.**

- **2024-25 -- The total estimated cost for large tools and equipment is $45,731.**

- **2025-26**

T & D and Customer Service Departments

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Towable Compressor, 185 CFM	1	$35,000	$35,000
2	Power Broom	1	$900	$900
3	2" Pneumatic Pump	1	$2,600	$2,600
4	Pipe Saw	2	$1,400	$2,800
5	Star Drill (Air Rock Drill)	1	$2,700	$2,700
6	Power Handle for Tapping Machine	1	$900	$900
7	Tamping Machine	1	$3,400	$3,400
	Total			**$48,300**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Plant Operations Department

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Hedge Trimmer	1	$600	$600
2	String edger	1	$550	$550
3	Commercial Grade Chain Saw	1	$940	$940
	Total			**$2,090**

- **2025-26 -- The total estimated cost for large tools and equipment is $50,390.**

- **2026-27**

T & D and Customer Service Departments

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Towable Compressor, 185 CFM	1	$36,000	$36,000
2	Star Drill (Air Rock Drill)	1	$2,900	$2,900
3	90 lb. Jack Hammer	2	$1,500	$1,500
4	Power Handle for Tapping Machine	1	$900	$900
	Total			**$41,300**

Plant Operations Department

Item No.	Description	Quantity	Unit Cost	Total Cost
1	String edger	2	$550	$1,100
2	Pole Hedger	1	$800	$800
	Total			**$1,900**

- **2026-27 -- The total estimated cost for large tools and equipment is $43,200.**

- **2027-28**

T & D and Customer Service

Item No.	Description	Quantity	Unit Cost	Total Cost
1	90 lb. Jack Hammer	1	$1,700	$1,700
2	Tamping Machine	1	$3,500	$3,500
3	Magnetic Locator	2	$1,400	$2,800
4	2” Pneumatic Pump	1	$2,600	$2,600
	Total			**$10,600**

Plant Operations

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Zero Turn 54” Ride On Mower	1	$20,000	$20,000
2	String Edger	1	$650	$650
3	Commercial Grade Chain Saw	1	$1,050	$1,050
	Total			**$21,700**

- **2027-28 -- The total estimated cost for large tools and equipment is $32,300.**

- **2028-29**

T & D and Customer Service

Item No.	Description	Quantity	Unit Cost	Total Cost
1	Power Broom	1	$850	$850
2	Tapping Machine & Mueller Valve	1	$5,200	$5,200
3	Pipe Saw	2	$1,550	$3,100
	Total			**$9,150**

Plant Operations

Item No.	Description	Quantity	Unit Cost	Total Cost
1	30" Self Propelled Push Mower (brush and lawn)	1	$3,400	$3,400
2	Backpack Leaf Blower	2	$850	$1,700
3	String Edger	1	$550	$550
	Total			**$5,650**

- **2028-29 -- The total estimated cost for large tools and equipment is $14,800.**

- **The total estimated cost for large tools and equipment is $181,980 over the five-year forecast.**

Details of the Proposed 5-Year Capital Plan – 2024-25 to 2028-29

Contingency

This line item includes any unforeseen capital replacements, etc. which may occur. **The amount included for contingency items is $25,000 per year for 2024-25 to 2028-29.**

- **The total estimated cost for contingencies is $125,000 over the five-year forecast.**

Total Estimated Cost of the 5-Year Capital Plan – 2024-25 to 2028-29

$135,991,975

Water Authority of Western Nassau County

Proposed - 5-Year Capital Plan -- 2024-25 to 2028-29

PROJECT	Total for New 5-Year Plan	Current 2023-2024	2024-25	2025-26	2026-27	2027-28	2028-29	5-Year Cost by Category
Well Screen & Pump Replacements & Building Upgrades & Water Treatment								
New Well Pump Bowl and Appurtenances for Well No. 30	120,000				120,000			
New Well Pump Bowl and Appurtenances for Well No. 35A	70,000		70,000					
Design and Contract Administration for New Buildings and Electrical and Mechanical Upgrades for 1,4-Dioxane & PFAs Treatment Facility for Station No. 57	-	47,964						
Construction of New Buildings and Electrical and Mechanical Upgrades for 1,4 Dioxane & PFAs Treatment Facility for Station No. 57 **	-	167,177						
Design and Contract Administration for New 3rd AOP Reactor Unit for Well No. 57A at Station No. 57	247,000	6,954	247,000					
Construction for New 3rd AOP Reactor Unit for Well No. 57A at Station No. 57	1,171,699	72,011	1,171,699					
Update and Modify AOP's Programmable Logic Controller (PLC) at Station No. 35	15,000		15,000					
Emergency Construction of a New Building Structure to Enclose the GAC Vessels for PFAs Treatment and Electrical and Mechanical Upgrades for Station No. 35 (Phase II)	-	161,266						
Design and Contract Administration for a New Well, Booster and AOP Building, VOC Removal Facility Upgrades and Additional Electrical and Mechanical Upgrades for 1,4-Dioxane & PFAs Treatment Facility for Station No. 35 (Phase III)	1,862,724				1,450,728	204,182	207,814	
Construction of New Well, Booster and AOP Building, VOC Removal Facility Upgrades and Additional Upgrades Electrical and Mechanical for 1,4-Dioxane & PFAs Treatment Facility for Station No. 35 (Phase III)	9,369,485					4,721,691	4,647,794	
Design and Contract Administration for Emergency Construction of a New Building, Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility for Station No. 20 (Phases I and II)	-	20,690						
Emergency Construction of Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility for Station No. 20 (Phase I)	-	11,500						
Construction of a New Building Structure to Enclose the GAC Vessels for PFAs Treatment and Electrical and Mechanical Upgrades for Station No. 20 (Phase II)	-	180,748						
Design and Contract Administration for a New Well/AOP Building and 0.5MG Elevated Storage Tank, VOC Removal Facility Upgrades and Electrical and Mechanical Upgrades for 1,4-Dioxane & PFAs Treatment Facility for Station No. 20 (Phase III)	2,856,165	10,689		934,466	1,401,699	312,000	208,000	
Construction of a New Well/AOP Building and 0.5MG Elevated Storage Tank, VOC Removal Facility Upgrades and Electrical and Mechanical Upgrades for 1,4-Dioxane & PFAs Treatment Facility for Station No. 20 (Phase III)	17,001,504					10,200,902	6,800,602	
Design and Contract Administration for a New Building Structure to Enclose the PFAs Treatment and Electrical and Mechanical Upgrades for Station No. 28 (Phase II)	373,230			306,049	67,181			
Construction of a New Building Structure to Enclose the GAC Vessels for PFAs Treatment and Electrical and Mechanical Upgrades for Station No. 28 (Phase II)	2,848,200				2,848,200			
Design and Contract Administration for New Buildings, Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility for Station No. 44	1,098,000	110,263	439,200	549,000	109,800			
Construction of New Buildings, Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility for Station No. 44	24,795,159	589,041	9,644,639	12,692,100	2,458,420			
Demolition of (2) Perimeter Properties at Station No. 40 for 1,4-Dioxane & PFAs Assets	-	77,324						
Design and Contract Administration of New Building, Structures, Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility for Station No. 40	898,000	412,048	718,400	179,600				
Construction of New Building, Structures, Electrical and Mechanical Upgrades and 1,4-Dioxane & PFAs Treatment Facility for Station No. 40	15,632,923		9,379,754	6,253,169				
Design and Contract Administration for a New Iron Removal Facility at Station No. 34	1,040,000				910,000	130,000		
Construction of a New Iron Removal Facility at Station No. 34	6,825,000				1,706,250	5,118,750		
Design and Contract Administration for EPA Emerging Contaminants at Station Nos. 15, 15A/B, 15C/E & 15D	1,466,700	64,876		882,540	438,120	146,040		
Construction of a New EPA Emerging Contaminants Removal Facilities at Station Nos. 15A/B, 15C/E & 15D *****	15,230,050				9,138,030	6,092,020		
Preparation of a New Master Plan	140,000			140,000				
Update and Modify Existing Hydraulic Model	16,000			16,000				103,076,839
Distribution Reservoirs & Standpipes								
Tank No. 5 Exterior Overcoat	550,000			550,000				
Design and Construction Inspection Services for Tank No. 5	124,500			124,500				
Design of Rehabilitation of Tank No. 20	-							
Rehabilitation of Tank No. 20	1,741,688	834,288	1,741,688					
Construction Inspection Services for Rehabilitation of Tank No. 20	294,250	292,318	294,250					2,710,438
Meters								
Meter Changes	1,414,170	156,854	266,365	274,356	282,587	291,065	299,797	
Large Meters	-	370						
Other Equipment	-							
Radio Equipment	673,928	39,822	126,937	130,746	134,668	138,708	142,869	2,088,098
Transmission & Distribution								
Main Installations -- In-house	847,408	22,127	158,709	161,559	170,284	173,684	183,172	
Hydrant Installations -- In-house	1,170,294	55,091	214,993	222,160	233,070	241,217	258,854	
Service Installations -- In-house	8,223,622	273,377	1,552,629	1,594,143	1,644,710	1,688,761	1,743,379	
Main Installations -- Contractor	11,505,643	6,997,945	6,681,066			4,824,577		
Hydrant Installations -- Contractor	718,200	391,400	395,200			323,000		
Service Installations -- Contractor	2,315,282	1,579,500	1,450,240			865,042		24,780,449
Computer Equipment								
CIS Hardware	1,635,750		31,950	950	1,600,950	950	950	
Copiers	15,000	8,214		15,000				
Customer Information System (CIS) Server	-							
Large Monitors and Hardware	2,200			2,200				
Miscellaneous	-							
Network Server	128,000		39,000	3,000	16,000	70,000		
Network Infrastructure	47,800		7,200	13,400	10,400	3,400	13,400	
Personal Computers/Laptops/Tablets	69,500	12,600	13,900	13,900	13,900	13,900	13,900	
Printers	13,600	850	2,600	1,500	6,500	1,500	1,500	
Replacement Monitors	1,750		350	350	350	350	350	
Security	85,960		19,592	16,592	16,592	16,592	16,592	
Software	-							
Telcom (Routine Mobile Replacements)	6,500	800	1,300	1,300	1,300	1,300	1,300	2,006,060
Vehicles								
Vehicles	1,018,670	106,805	486,670	210,000	124,000	128,000	70,000	1,018,670
Large Tools & Equipment								
Postage Machine	4,441		4,441					
T & D and Customer Service Departments	123,990		14,640	48,300	41,300	10,600	9,150	
Plant Operations Department	57,990	12,296	26,650	2,090	1,900	21,700	5,650	186,421
Contingency								
Contingency	125,000		25,000	25,000	25,000	25,000	25,000	125,000
TOTALS	**135,991,975**	**12,717,208**	**35,241,062**	**25,363,970**	**24,971,939**	**35,764,931**	**14,650,073**	**135,991,975**

** $3 million Grant from New York State for 1,4-Dioxane - Fully Reimbursed
*** $4,930,200 Grant from New York State for 1,4-Dioxane and PFAs - $2.1 million Remaining
**** $31,500,000 Grant from New York State for 1,4-Dioxane and PFAs (4 Projects)
***** $5 million Grant from New York State for PFAs
PFAs Litigation - $9 million