Approved May 11, 2023

PRINCE WILLIAM County Government Center

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CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028



May 11, 2023

CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 – 2028



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CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024-2028

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CAPITAL IMPROVEMENT PROGRAM

PURPOSE

The Capital Improvement Program (CIP) is presented annually to the Board of Directors as a planning document for the express purpose of identifying future capital projects and schedules of capital project activity as projected by all Divisions within the Service Authority. The CIP Program is not intended to commit funding but sets planning level project budgets, identifies funding sources, approximates funding allocation and estimates the project schedules.

The timing of many projects is heavily dependent on development activity throughout various areas of the county. As often occurs, CIP projects may be postponed due to reprioritization of other projects or low development activity in a specific area. Preliminary engineering design and the purchase of needed land can be initiated as a phased and timely effort in advance of development activity to prevent delays in construction when the associated development occurs. The General Manager may adjust the timing and spending schedule for projects in accordance with the Service Authority's budget transfer policy for CIP projects.

All contracts related to the CIP are approved in accordance with the Service Authority Purchasing Regulations and project funds are encumbered through the Purchase Order process. As projects can span several fiscal years, unspent encumbered funds are rolled over to the next fiscal year at the end of each fiscal year. Note that for accounting purposes, any projects not resulting in a capital asset, or any costs that do not meet the accounting criteria to be capitalized will be reclassified from capital to expense, as a year-end closing adjustment. The CIP is updated on an annual basis to reflect the latest project priorities, cost estimates and spending schedules.

CIP DOCUMENT FORMAT

The CIP is presented for a five-year cycle for Fiscal Years 2024 through 2028 in three sections: Section A (Program Summary), Section B (Project Data Sheets), and Section C (Project Maps). The following discussion describes the contents of each Section within this report.

Section A - Program Summary

This section provides a financial summary of each project including the project's expenditures prior to FY24, proposed expenditure schedule and respective funding source. The projects are organized into categories, which are defined in Table 1, CIP Project Categories.

This section includes all existing and proposed CIP projects that have design or construction activity in the current five-year cycle. Projects constructed by developers and contributed to the Service Authority are not included in the document, unless the project comprises a system improvement in which the Service Authority plans to participate in financially.

CIP PROJECT CATEGORIES

The CIP is organized with respect to project categories. This arrangement facilitates locating project data sheets for comparison or study. The functional categories are listed in Table 1 below.

Project Category	Description	
Water Supply	Booster pumping stations and water supply projects are presented under this	
Projects (WSUP)	category.	
Water Storage	This project category includes tank design, construction, maintenance and	
Tank Projects	rehabilitation programs. Tanks maintain system pressures, provide fire and	
(WST)	reserve storage, and provide water during peak demands.	
Water	Water main projects are presented under this category. Transmission mains are	
Transmission	pipes sized 16-inches and larger to convey large volumes of water to booster	
Projects (WAT)	pumping stations, storage tanks and regional demand areas. Distribution mains	
	are pipes sized 12-inches and smaller to provide water service and fire	
	protection to localized areas.	
Sewage Pumping	This category includes replacements, upgrades or modifications to existing	
Stations Projects	sewage pumping stations and associated force mains to meet future capacity	
(SPS)	needs within the sewer shed, improve safety conditions and to continue meeting	
	DEQ regulations. Sewage pumping stations pump sewage from a low point in	
	one gravity sewer shed to another gravity sewer shed for conveyance to either	
	the Upper Occoquan Service Authority (UOSA) or H.L. Mooney Advanced Water	
	Reclamation Facility (AWRF).	
Sewage Collection	New sewer mains and replacement/upgrades to existing sewer mains that	
System Projects	convey sewage from commercial and residential customers to sewage pumping	
(SEW)	stations or water reclamation facilities are presented under this category.	
Water	Construction projects and facility modifications at the H.L. Mooney AWRF are	
Reclamation	presented in this category.	
Facility Projects		
(WRF)		
Miscellaneous	Projects that are not directly related to any of the previous six categories are	
Projects (MISC)	included in this section. Several projects include upgrades or expansions to office	
	complexes and maintenance facilities.	
Information	Projects that involve improvements to Information Technology applications,	
Technology (IT)	infrastructure, support, and data analytics are presented in this category.	
	Examples include: financial systems, work order management, and Supervisory	
	Control and Data Acquisition (SCADA) upgrades and modifications; IT server,	
	database, and communications equipment upgrades; and system integration	
Designal	and business analytics software improvements.	
Regional Utility	Major expansion or upgrades to regional treatment facilities at which the Service	
Projects (REG)	Authority has purchased capacity rights, such as UOSA's Water Reclamation	
	Facility and the City of Manassas' and/or Fairfax Water's Water Treatment Plants	
	are presented under this category. This category also includes a new Occoquan	
	River crossing to increase transmission capacity and reliability of the potable	
	water supply to eastern Prince William County.	

Table 1. CIP Project Categories

Section B – Project Data Sheets

This section provides detailed information for each CIP project, which are grouped by project category. Table 2 defines all the information included on the project's data sheet.

Data Sheet Field	Description	
Project Title	Provides a name for the project.	
Project CIP	Identifies the project category and "Engineering" project number(s).	
JDE Job Number(s)	The job cost coding to be utilized within JD Edwards tracking system.	
Location	A description of where the project will be in Prince William County.	
Pressure Zone	This identifies the Pressure Zone, Sewershed and Magisterial District	
Sewershed	where the project will occur. If the project is marked as "multiple", this	
Magisterial District	indicates that the project falls within more than one area of service.	
Project Description	The scope and/or justification of the project are identified.	
Project Benefit	The benefit of the project is described.	
Source Derivation	Details the engineering/planning study, wherein the project need was identified. In some cases, in-house analyses have recommended projects and these are identified by the respective Division.	
Estimate By	Identifies the Division within the Service Authority and/or Engineering Consultant that prepared the cost estimate.	
	The annual estimated spending amounts and totals shown are in thousands of dollars (\$1,000's).	
Project Estimate	An "Order of Magnitude" estimate is generally used in the early stages of a project when only concepts, maps and historical project data are available, without the benefit of detailed engineering reports or preliminary plans. Order of Magnitude Estimates are also appropriate when anticipated construction is beyond the five-year period of the CIP. As such, "Order of Magnitude" cost estimates are accurate within +50 and -30 percent.	
	When available, more accurate cost estimates as a result of a Preliminary Engineering Report (PER), Consultant's Opinion of Probable Construction Costs (OPCC) or the Contract Award cost are utilized.	

Table 2. CIP Project Data Sheet Fields

Data Sheet Field	Description	
Proposed Funding Sources	This section provides the estimated breakdown of funding of the total cost by Fund, e.g. Expansion Fund 02 – from Availability Fees, Commitment Fund 03 – from Availability Fees, Replacement Fund 04 – from User Rates, Other Contributions or Developer Contributions. The allocations may vary from the initial estimates.	
Project Total	Total project costs include anticipated land acquisition, design and construction costs, and Service Authority inspection and project management costs. A review of the construction and materials costs over the previous year has indicated increases, and consequently, estimates from the previous year's CIP have been adjusted upward for inflation this year. The conservative nature of the estimates will absorb these minor increases for ensuing years.	
Project MapMaps are produced from the Service Authority's Mapping Sy maps are annotated to detail information about the various Photographs are also used for many countywide type project		

Table 2. CIP Project Data Sheet Fields (cont.)

Section C – Project Maps

This section provides overall county maps showing the location of the projects, giving the "big picture" of the Capital Improvement Program. The maps prove useful when correlating the information about pressure zone and sewershed on the project data sheet with the project's location in Prince William County.

CIP PROJECT EVALUATION AND SCHEDULING

The Service Authority's Strategic Plan plays an ongoing critical role in the management and operations of the Service Authority. All CIP projects must align with the Service Authority's immediate business needs and remain well aligned with the short and long-term outcomes the Service Authority strives to achieve.

In support of the water and wastewater systems, Service Authority CIP projects are typically: capacity and transmission improvements, new facilities, and investment in replacement of expiring assets. Other CIP projects include support facilities and IT initiatives that are needed to meet strategic plan objectives.

Each CIP project requires a business case that documents its alignment with the Master Plan, the Strategic Plan Areas of Excellence, Strategic Objectives, and Strategic Goals. In addition, CIP projects are evaluated according to the CIP Project Evaluation Criteria shown in Table 3 below. The evaluation process involves discussion and scoring of CIP projects by the Service Authority's Work Coordination Council (WCC), consisting of Service Authority leadership and subject matter experts. The WCC uses the outcomes of this evaluation process in conjunction with consideration of available funding, resources, and other constraints to develop the CIP fiscal year schedule, as reflected in Section A (CIP Program Summary).

Criteria	Criteria/Factors	Criteria Description and Objectives
1	 Physical Condition of Asset Physical Condition Assessment Operating/Maintenance History Probability/Consequence of Failure Age/Useful Life 	Protect the health, safety and service to customers by replacing assets or information systems that have a high risk of failure due to age, condition or obsolescence.
2	Regulatory/Environmental Requirements • Permit/Regulatory Compliance • Water Quality • Health and Safety • Environmental Impact • Compliance Data Accuracy	Protect public health and the environment by reducing the risk of regulatory non-compliance or negative environmental impact due to the failure of an asset or information system.
3	Service Level/Reliability Requirements • Workforce Productivity • Service interruption History • Health and Safety Risks • Water and Air Quality • Water Main Breaks or Sewer Backups • Noise or Odor Complaints	Increase the reliability and redundancy of service to our customers by replacing and augmenting facilities and/or information systems that do not fully meet Service Authority standards.
4	Capacity/Technical Obsolescence Issues • Workforce Productivity • Probability of Failure • Single Point of Failure • Customer Service Needs • Capacity for New Customers • Future Support for Equipment/Systems	Meet current and future technical, capacity, operational, health, safety, security and level of service requirements.
5	Operations and Maintenance Issues Maintenance Requirements Breakdowns and Downtime Reactive Maintenance Equipment Obsolescence Manufacturer/Supplier Support Labor and Operating Cost Savings 	Optimizing operational efficiency and reliability by replacing or enhancing the Service Authority's plant, water and sewer facilities and information systems.

Table 3 - CIP Project Evaluation Criteria

FISCAL YEAR 2024 Summary of CIP Projects

WATER SUPPLY PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
WSUP-103	Water Meter Vault Improvements	Commercial Meter Vault Locations
WSUP-105	Montclair/Four Seasons Water System Improvements	17361 Four Seasons Dr., Dumfries
WSUP-111	Bull Run Mountain Well Upgrades	Bull Run Upper & Lower and Evergreen Pressure Zones
WSUP-112	Manassas Southside Booster Pumping Station Upgrades	8170 Blooms Quarry Ln., Manassas
WSUP-114	Capital Meter Program	County Wide
WSUP-116	Unity Reed (F14) Booster Pumping Station and Discharge Main	8814 Rixlew Ln., Manassas
WSUP-117	Eastern Area Pressure Reducing Valves	MS06, MS27 and F06

The following is a list of Projects slated for study, design or construction during Fiscal Year 2024.

WATER STORAGE PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
WST-110	Water Storage Tank Rehabilitation Program	5895 Antioch Rd., Haymarket
WST-111	Tank Re-Chlorination Program	9933 Broadsword Dr., Bristow

WATER TRANSMISSION PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
WAT-115	Dawkins Branch Transmission Main	University Boulevard from Sudley Manor Drive to Edmonston Drive
WAT-181	Route 1 Transmission Main – Phase 1	Route 1 from Garfield BPS to Dumfries Road
WAT-182	Route 1 Transmission Main – Phase 2	Route 1 and Old Triangle Rd. from Dumfries Road to Fuller Heights Road
WAT-183	Western Area Resiliency – Rt. 28 Bypass	Proposed Rt. 28 Bypass Road Project from Fairfax County to Godwin Drive
WAT-184	Sudley Road Water Main – Phase 3	Sudley Road from Godwin Drive to Thomas Drive
WAT-200	Water Distribution Asset Replacement Program	County Wide

SEWAGE PUMPING STATION PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
SPS-100	Generator Replacement Program	County Wide
SPS-107	Occoquan Forest Sewage Pumping Stations, OQL36 and OQL37	10820 Split Rail Dr. and 6204 Ramblewood Tr., Manassas
SPS-108	Nokesville Sewage Pumping Station, L20	12829 Fitzwater Dr., Nokesville
SPS-112	Graham Park Sewage Pumping Station, L13	3196 Shoreview Rd., Dumfries
SPS-113	Heritage Hunt Sewage Pumping Station, L52 and Force Main	6588 Alderwood Way, Gainesville
SPS-115	Belmont Sewage Pumping Station, L17 and Force Main	13760 Dabney Rd., Woodbridge
SPS-116	Hornbaker Sewage Pumping Station, L06 and Force Main	13010 Sport&Health Dr., Woodbridge
SPS-118	Koon's Sewage Pumping Station, L28	10640 Automotive Dr., Manassas
SPS-123	Spinnaker Court Sewage Pumping Station, L02 and Force Main	2280 Spinnaker Ct., Woodbridge
SPS-125	Occoquan Creek Sewage Pumping Station, L04 and Gravity Main	13221 Marina Way, Woodbridge
SPS-134	Hooes Run Sewage Pumping Station, L01 and Force Main	2502 Old Bridge Rd., Woodbridge
SPS-135	Yorkshire Sewage Pumping Station, L30 and Force Main	7415 Lake Dr., Manassas
SPS-136	Melrose Sewage Pumping Station, L10	3350 Melrose Ave., Triangle
SPS-138	Powell's Creek Sewage Pumping Station, L08 and Force Main	2750 Dettingen Pl., Woodbridge
SPS-142	Featherstone Sewage Pumping Station, L16 and Force Main	15023 Farm Creek Dr., Woodbridge

SEWAGE COLLECTION PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
SEW-106	Dumfries Force Main and Water Main Replacement	Near Route 1, Dumfries
SEW-157	Sudley Road Sewer Main Replacement and Upgrade	Sudley Rd. to Williamson Blvd., South of I-66
SEW-158	I-66 Rest Area Sewer Main Replacement	Crossing at I-66 Rest Area
SEW-200	Sewer Collection Rehabilitation & Replacement Program	County Wide

WATER RECLAMATION FACILITY PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
WRF-123	Ongoing Renewal and Replacement	H.L. Mooney AWRF
WRF-131	FBI and Solids Building Repairs and Modifications	H.L. Mooney AWRF
WRF-134	Bioreactor Basin Improvements	H.L. Mooney AWRF
WRF-138	Facility Wide Improvements – Design-Build Project	H.L. Mooney AWRF

MISCELLANEOUS PROJECTS		
CIP Number	PROJECT NAME	PROJECT LOCATION
MISC-100	Water and Sewer Utility System Improvement Opportunity (USIO)	County Wide
MISC-101	Water and Sewer Facility Security Enhancements	County Wide
MISC-102	Wellington Road Operations Center Expansion	8410 Virginia Meadows Dr., Manassas
MISC-103	Facilities Renewals and Upgrades	County Wide
MISC-112	Administrative Office Space Expansion	TBD
MISC-114	System Wide Master Plan	County Wide
MISC-116	English Gardens Property Building & Site Improvements	14195 Dumfries Rd., Manassas
MISC-117	Studies and PER's – Organization Wide	County Wide
MISC-118	Nottoway Tank Site Development	2011 Horner Rd., Woodbridge
MISC-200	Vehicle Replacement Program	County Wide
MISC-201	Mechanical Equipment Replacement Program	County Wide
MISC-202	Computer and Other Replacement Program	County Wide
MISC-203	Major Facility Rehabilitation Program	County Wide

	INFORMATION TECHNOLOGY PROJECTS											
CIP Number	PROJECT NAME	PROJECT LOCATION										
IT-106	Cayenta - CIS	County Wide										
IT-107	Computerized Maintenance Management System (CMMS) Implementation	County Wide										
IT-110	Document Management System Implementation	County Wide										
IT-117	Vertical Asset Data Development	County Wide										
IT-118	System Integration	County Wide										
IT-121	Asset Management Analytics	County Wide										
IT-122	Project Management Information System (PMIS) Implementation	County Wide										
IT-125	Network Security Upgrades	County Wide										
IT-126	SCADA System Upgrade	County Wide										
IT-128	Web Content Management System Migration	County Wide										

REGIONAL UTILITY PROJECTS									
CIP Number	PROJECT NAME	PROJECT LOCATION							
REG-1	Occoquan River Crossing	Occoquan River at Griffith WTP							

GLOSSARY OF TERMS AND ACRONYMS

The following is a list of acronyms and abbreviations frequently used by Prince William County Service Authority

Acronym/Abbreviation List							
PWCSA	Prince William County Service Authority						
PWC	Prince William County						
SA	Service Authority						
AWRF	Advanced Water Reclamation Facility						
B&C	Brown and Caldwell (Engineers)						
BAKER	Michael Baker International, Inc. (Engineers)						
BI	Business Intelligence						
BNR	Biological Nitrogen Removal						
BOCS	Board of County Supervisors						
BOD	PWCSA Board of Directors						
BPS	Booster Pumping Station						
CBA	Chesapeake Bay Agreement						
CIP	Capital Improvement Program						
CIP	Cast Iron Pipe						
CIPP	Cured In-Place Pipe						
CMMS	Computerized Maintenance Management System						
СОМ	City of Manassas						
COMP	City of Manassas Park						
CSX	Chesapeake-Seaboard Corporation (Railroad)						
Ct.	Court						
DIP	Ductile Iron Pipe						
Dr.	Drive						
FAA	Federal Aviation Administration						
FEMA	Federal Emergency Management Agency						
FM	Force Main						
FUND 02	Expansion Fund						
FUND 03	Commitment Fund						
FUND 04	Replacement Fund						
FW	Fairfax Water						
FY	Fiscal Year						
GIS	Geographic Information System						

	Acronym/Abbreviation List (Cont.)
GPM	Gallons Per Minute
GPS	Global Positioning System
H&S	Hazen and Sawyer Environmental Engineers and Scientists
HDPE	High Density Polyethylene Pipe
HOA	Homeowner Association
HP	Horsepower
HVAC	Heating Ventilation Air Conditioning
1&1	Inflow and Infiltration
IT	Information Technology
LFC	Local Facilities Charge
Ln.	Lane
МСВ	Marine Corps Base
MCBQ	Marine Corps Base, Quantico
MG	Million Gallons
MGD	Million Gallons Per Day
MHI	Multiple Hearth Incinerator
MISC	Miscellaneous
MPUA	Master Plan Utility Adjustment
N-S RWY	Norfolk-Southern Railway Company
NPDES	National Pollution Discharge Elimination System
0&M	Operations and Maintenance Division
OPCC	Opinion of Probable Construction Cost
PER	Preliminary Engineering Report
PES	Potomac Embayment Standards
PFR	Public Facilities Review
PH	Phase
PO	Purchase Order
PRV	Pressure Reducing Valve
PS	Pumping Station
PVC	Polyvinyl Chloride (Plastic Pipe)
PWP	Prince William Pipeline, Corp.

	Acronym/Abbreviation List (Cont.)							
ΡZ	Pressure Zone							
RCP	Reinforced Concrete Pipe							
RCS	Residual Control System							
Rd.	Road							
RDA	Rinker Design Associates (Engineers)							
RF&P	Richmond, Fredericksburg and Petersburg Railroad							
RK&K	Rummel, Klepper and Kahl Consulting Engineers							
RPM	Revolutions Per Minute							
SA	Service Authority							
SCADA	Supervisory Control and Data Acquisition							
SEW	Sewer (Collection Mains)							
SPS	Sewage Pumping Station							
SS	Sanitary Sewer							
SSES	Sanitary Sewer Evaluation Study							
SSO	Sanitary Sewer Overflow							
TDH	Total Dynamic Head							
Tr.	Terrace/Trail							
UOSA	Upper Occoquan Service Authority							
USIO	Utility System Improvement Opportunity							
UV	Ultraviolet							
VDEQ	Virginia Department of Environmental Quality							
VDOT	Virginia Department of Transportation							
WAT	Water (Transmission and Distribution)							
WL	Water Line							
WRA	Whitman, Requardt and Associates, LLP (Engineers)							
WRF	Water Reclamation Facility (Now AWRF)							
WST	Water Storage Tank							
WSUP	Water Supply							
WWTP	Wastewater Treatment Plant							

	Water Pressure Zones							
ВН	Bull Run Mountain High							
BW	Bull Run Mountain Low							
DT	Dumfries							
EG	Evergreen							
FW	Fairfax Water							
GM	Greater Manassas							
GW	Gainesville							
НМ	Haymarket							
НО	Hoadly							
LR	Lake Ridge							
MO	Montclair							
MS	Manassas Southside							
OR	Oak Ridge							
WL	Woodbridge							

	Water Pressure Sub-Zones (Primary Zone)								
DV	Dominion Valley Boosted (Haymarket)								
OF	Occoquan Forest Reduced (Hoadly)								
РС	Powell's Creek Reduced (Dumfries)								

	Sewersheds
BM	Belmont
BR	Broad Run
BU	Bull Run
СВ	Cabin Branch
СС	Catharpin Creek
DE	Deweys Branch
DM	Dumfries
FB	Flat Branch
FS	Featherstone
GD	Godwin Drive
HB	Holkums Branch
HR	Hooes Run
HS	Harbor Station
LB	Little Bull Run
LC	Little Creek
MR	Melrose
NB	North Branch
NE	Neabsco
NK	Nokesville
ос	Occoquan Creek
OQ	Occoquan Forest
OS	Occoquan Plant
ОТ	Occoquan Town
РВ	Piney Branch
PC	Powells Creek
PU	Purcell Branch
RU	Russia Branch
WA	Airport
YS	Yorkshire

	Magisterial Districts							
BR	Brentsville							
со	Coles							
GN	Gainesville							
NE	Neabsco							
ос	Occoquan							
PO	Potomac							
WB	Woodbridge							

CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028





SECTION A

PROGRAM SUMMARY

PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028											
	SOURCE SUMMARY			24 2020							
	TOTAL EXPENDITURES			SPENDING	SCHEDUL	E (\$1,000's)					
	(\$1,000's)	PRE FY-24	FY-24	FY-25	FY-26	FY-27	FY-28	BEYOND FY-28			
WATER SUPPLY PROJECTS (WSUP)			•	•		•		•			
Exp Fund 002	14819	3618	3303	4082	3207	305	305	0			
Fund 003 Rep Fund 004		0 7631	0 7233	0 6772	0 4559	0 1345	0 1345	0 0			
Other	· 0	0	0	0	0	0	0	0			
TOTAL WATER STORAGE PROJECTS (WST)		11249	10535	10853	7765	1650	1650	0			
Exp Fund 002		0	0	0	0	0	0	0			
Fund 003	0	0	0	0	0	0	0	0			
Rep Fund 004 Other		0 0	1355 0	2950 0	2950 0	2950 0	1578 0	0 0			
TOTAL		0	1355	2950	2950	2950	1578	0			
WATER TRANSMISSION PROJECTS (WAT)											
Exp Fund 002 Fund 003		13185 0	2246 0	1650 0	3750 0	7170 0	9625 0	4205 0			
Rep Fund 004	65758	13079	5546	5150	8658	13942	15625	3758			
Other TOTAL		82 26346	0 7792	0 6800	0 12408	38 21150	250 25500	156 8118			
SEWAGE PUMPING STATION PROJECTS (SPS)		20340	1192	0800	12406	21150	25500	0110			
Exp Fund 002		6770	9947	9976	14999	18865	13409	15710			
Fund 003		0	0	0	0	0	0	0			
Rep Fund 004 Other		22477 268	15321 0	25383 125	32738 250	39641 273	30095 0	25815 0			
TOTAL	282060	29514	25268	35484	47987	58778	43504	41525			
SEWER COLLECTION PROJECTS (SEW)		2474	520	-		-	<u>^</u>	<u>^</u>			
Exp Fund 002 Fund 003		3471 0	539 0	0 0	0 0	0 0	0 0	0 0			
Rep Fund 004	10911	5473	1477	1161	1600	600	600	0			
Other		0 8944	0 2015	0 1161	0 1600	0 600	0 600	0			
WATER RECLAMATION FACILITY PROJECTS (WRF)		0044	2015		1000						
Exp Fund 002		1693	360	434	825	855	465	1860			
Fund 003 Rep Fund 004		4825 15208	5100 12740	14445 34717	14756 36355	13800 34195	13800 33285	0 4340			
Other		0	0	0	0	0	0	0			
TOTAL		21726	18200	49595	51936	48850	47550	6200			
MISCELLANEOUS PROJECTS (MISC) Exp Fund 002		1434	2598	4925	8650	10680	18927	4550			
Fund 002	0	0	0	0	0	0	0	0			
Rep Fund 004		993	9851	13986	17836	18769	24972	4750			
Other TOTAL		0 2427	0 12448	0 18911	0 26486	0 29449	0 43899	0 9300			
INFORMATION TECHNOLOGY (IT)											
Exp Fund 002		442	53	143	38	19	0	0			
Fund 003 Rep Fund 004		0 7130	0 9235	0 10296	0 11902	0 9394	0 0	0 0			
Other	· 0	0	0	0	0	0	0	0			
TOTAL REGIONAL UTILITY PROJECTS (REG)		7572	9287	10438	11940	9413	0	0			
Exp Fund 002		1985	3770	3770	0	0	0	0			
Fund 003	84200	0	0	3100	7900	24400	24400	24400			
Rep Fund 004 Other		4632 0	8796 0	8796 0	0 0	0 0	0 0	0 0			
TOTAL		6617	12566	15666	7900	24400	24400	24400			
TOTAL EXPANSION FUND 002	218809	32598	22814	24978	31468	37894	42731	26325			
TOTAL COMMITMENT FUND 003		4825	5100	17545	22656	38200	38200	24400			
TOTAL REPLACEMENT FUND 004		76623	71552	109210	116598	120836	107500	38662			
TOTAL DEVELOPER/OTHER FUND		350	0	125	250	310	250	156			
GRAND TOTAL - ALL CIP PROJECTS	1012155	114395	99466	151858	170972	197240	188681	89543			

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY												
	CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028												
	WATER SUPPLY PROJECTS												
		ESTIMATED PROJECT COST		FUNDI	NG SOURCI	ES	SPENDING SCHEDULE						
CIP Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY-25	FY-26	FY-27	FY-28	BEYOND FY-28
WSUP-103	Water Meter Vault Improvements	675	0	0	675	0	0	175	125	125	125	125	0
WSUP-105	Montclair/Four Seasons Water System Improvements	15230	5331	0	9900	0	6430	7800	1000	0	0	0	0
WSUP-111	Bull Run Mountain Well Upgrades	2826	0	0	2826	0	1739	200	650	237	0	0	0
WSUP-112	Manassas Southside Booster Pumping Station, F18	1600	800	0	800	0	1565	35	0	0	0	0	0
WSUP-114	Capital Meter Program	7625	1525	0	6100	0	0	1525	1525	1525	1525	1525	0
WSUP-116	Unity Reed Booster Pumping Station, F14 and Discharge Main	14326	7163	0	7163	0	1170	500	6853	5803	0	0	0
WSUP-117	Eastern Area Pressure Reducing Valves	1420	0	0	1420	0	345	300	700	75	0	0	0
	TOTAL: WATER SUPPLY PROJECTS	43702	14819	0	28884	0	11249	10535	10853	7765	1650	1650	0

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028												
	WATER STORAGE PROJECTS												
ESTIMATED PROJECT COST FUNDING SOURCES SPENDING SCHEDULE													
CIP Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28
·													
WST-110	Water Storage Tank Rehabilitation Program	6638	0	0	6638	0	0	40	1750	1750	1750	1348	0
WST-111	Tank Re-Chlorination Program	5145	0	0	5145	0	0	1315	1200	1200	1200	230	0
	TOTAL: WATER STORAGE PROJECTS	11783	0	0	11783	0	0	1355	2950	2950	2950	1578	0

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028														
	WATER TRANSMISSION PROJECTS														
			ESTIMATED PROJECT COST				SPENDING SCHEDULE								
СІР	Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28	
WA	T-115	Dawkins Branch Transmission Main	7766	4660	0	3106	0	529	1000	1500	0	0	2500	2237	
WA	T-122	Gainesville to Manassas South Connector	5254	2364	0	2364	525	820	0	0	0	378	2500	1556	
WA	T-138	Possum Point Road Water Main - Phase 2	4680	0	0	4680	0	0	0	0	408	2272	2000	0	
WA	T-181	Route 1 Transmission Main - Phase 1	13193	6597	0	6597	0	12882	311	0	0	0	0	0	
WA	T-182	Route 1 Transmission Main - Phase 2	13416	6708	0	6708	0	11935	1481	0	0	0	0	0	
WA	T-183	Western Area Resiliency - Rt. 28 Bypass	40825	20413	0	20413	0	0	500	500	7500	14000	14000	4325	
WA	T-184	Sudley Road Water Main - Phase 3	2180	1090	0	1090	0	180	1000	1000	0	0	0	0	
WA	T-200	Water Distribution Asset Replacement Program	17500	0	0	17500	0	0	3500	3500	3500	3500	3500	0	
WA	T-201	Bull Run Mountain Distribution System Improvements	3300	0	0	3300	0	0	0	300	1000	1000	1000	0	
		TOTAL: WATER TRANSMISSION PROJECTS	108114	41831	0	65758	525	26346	7792	6800	12408	21150	25500	8118	

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY												
	CAPITAL	IMPROVEMEN	T PROG	RAM, FI	SCAL YE	ARS 2024-2	028						
		SEWAGE PU	MPING	STATIO	N PROJE	стѕ							
		ESTIMATED PROJECT COST							CDE				
		PROJECT COST	E	FUNDI	NG SOURCE		PRE		SPEI	NDING SCH			BEYOND
CIP Number	PROJECT NAME	(\$1,000's)	002	003	004	OTHER	FY-24	FY-24	FY25	FY-26	FY-27	FY-28	FY-28
SPS-100	Generator Replacement Program	4370	0	0	4370	0	0	340	820	1070	1070	1070	0
SPS-107	Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37	6494	0	0	6494	0	6022	472	0	0	0	0	0
SPS-108	Nokesville Sewage Pumping Station, L20	2841	0	0	2841	0	2629	212	0	0	0	0	0
SPS-112	Graham Park Sewage Pumping Station, L13	4829	0	0	4829	0	4767	62	0	0	0	0	0
SPS-113	Heritage Hunt Sewage Pumping Station, L52 and Force Main	43991	21996	0	21996	0	10715	17000	10000	6276	0	0	0
SPS-115	Belmont Sewage Pumping Station, L17 and Force Main	16533	4960	0	11573	0	944	1000	800	2500	6000	5289	0
SPS-116	Hornbaker Sewage Pumping Station, L06 and Force Main	3966	0	0	3966	0	200	513	3000	253	0	0	0
SPS-118	Koon's Sewage Pumping Station, L28	5324	0	0	5324	0	586	1000	2238	1500	0	0	0
SPS-123	Spinnaker Court Sewage Pumping Station, L02 and Force Main	4539	0	0	4539	0	609	1000	1430	1500	0	0	0
SPS-125	Occoquan Creek Sewage Pumping Station, L04 and Gravity Main	15389	3078	0	12311	0	505	600	5745	6000	2539	0	0
SPS-126	Piney Branch Sewage Pumping Station, L26 and Gravity Main	3660	2196	0	549	915	1070	0	500	1000	1090	0	0
SPS-134	Hooes Run Sewage Pumping Station, L01 and Force Main	27055	9469	0	17586	0	213	600	3234	12000	11008	0	0
SPS-135	Yorkshire Sewage Pumping Station, L30 and Force Main	8506	3828	0	4678	0	210	761	2500	2535	2500	0	0
SPS-136	Melrose Sewage Pumping Station, L10	8269	0	0	8269	0	208	708	2000	3353	2000	0	0
SPS-137	Dawson Landing Sewage Pumping Station, L51	6794	0	0	6794	0	206	0	517	1000	3071	2000	0
SPS-138	Powell's Creek Sewage Pumping Station, L08 and Force Main	20000	10000	0	10000	0	155	500	700	5000	8000	5645	0
SPS-139	North Fork Sewage Pumping Station, L39	14000	6300	0	7700	0	131	0	400	600	4000	6500	2369
SPS-140	Occoquan Plant Sewage Pumping Station, L14	18500	3700	0	14800	0	133	0	400	600	5000	7500	4867

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028												
	SEWAGE PUMPING STATION PROJECTS												
		ESTIMATED PROJECT COST		FUNDI	NG SOURCE	S			SPEN	IDING SCH	IEDULE		
CIP Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28
SPS-141	Dewey's Creek Sewage Pumping Station, L09	20000	3000	0	17000	0	136	0	400	600	5000	8000	5864
SPS-142	Featherstone Sewage Pumping Station, L16 and Force Main	47000	21150	0	25850	0	75	500	800	2200	7500	7500	28425
	TOTAL: SEWAGE PUMPING STATION PROJECTS	282060	89676	0	191469	915	29514	25268	35484	47987	58778	43504	41525

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY												
	CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028												
	SEWER COLLECTION PROJECTS												
		ESTIMATED PROJECT COST		FUNDI	NG SOURCE	ES			SPEN	NDING SCH	IEDULE		
			E		R		PRE						BEYOND
CIP Number	r PROJECT NAME	(\$1,000's)	002	003	004	OTHER	FY-24	FY-24	FY25	FY-26	FY-27	FY-28	FY-28
SEW-106	Dumfries Force Main and Water Main	4674	0	0	4674	0	4251	423	0	0	0	0	0
SEW-157	Sudley Road Sewer Main	5346	4010	0	1337	0	4628	718	0	0	0	0	0
SEW-158	I-66 Rest Area Sewer Main	1900	0	0	1900	0	65	274	561	1000	0	0	0
SEW-200	Sewer Collection Rehabilitation & Replacement Program	3000	0	0	3000	0	0	600	600	600	600	600	0
	TOTAL: SEWER COLLECTION PROJECTS	14920	4010	0	10911	0	8944	2015	1161	1600	600	600	0

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY												
	CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024 - 2028												
		WATER RECLA	ΑΜΑΤΙΟ	N FACIL	ITY PRO	IECTS							
		ESTIMATED PROJECT COST		FUNDI	NG SOURCI	ES			SPEN	NDING SCH	IEDULE		
CIP Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28
WRF-123	Ongoing Renewal and Replacement	9642	2893	0	6749	0	1442	400	400	400	400	400	6200
WRF-126	Dynamic Hydraulic Model and Instrumentation	1265	380	0	886	0	665	0	100	200	300	0	0
WRF-131	FBI and Solids Building Repairs and Modifications	6894	2068	0	4826	0	1864	480	600	1650	1650	650	0
WRF-134	Bioreactor Basin Improvements	3837	1151	0	2686	0	1672	320	345	500	500	500	0
WRF-138	Facility Wide Improvements - Design-Build Project *	222419	0	66726	155693	0	16083	17000	48150	49186	46000	46000	0
	TOTAL: WATER RECLAMATION FACILITY PROJECTS * Partially Debt Funded Project (\$100M)	244057	6491	66726	170840	0	21726	18200	49595	51936	48850	47550	6200

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY												
	CAPITAL	IMPROVEMEN				ARS 2024 - 2	2028						
		ESTIMATED	ELLANEO	OUS PRO	JECTS		r						
		PROJECT COST				SPENDING SCHEDULE							
CIP Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28
MISC-100	Water and Sewer Utility System Improvement Opportunity (USIO)	7840	3920	0	3920	0	0	1440	1600	1600	1600	1600	0
MISC-101	Water & Sewer Facility Security Enhancements	2275	0	0	2275	0	0	585	410	420	450	410	0
MISC-102	Wellington Road Operations Center Expansion	16662	8331	0	8331	0	629	1500	4500	6500	3533	0	0
MISC-103	Facility Renewals and Upgrades	1359	0	0	1359	0	159	200	200	200	200	200	200
MISC-112	Administrative Office Space Expansion	20786	10393	0	10393	0	951	135	600	500	3500	6000	9100
MISC-114	System Wide Master Plan	1035	1035	0	0	0	600	185	0	0	0	250	0
MISC-116	English Gardens Property Building & Site Improvements	51869	25935	0	25935	0	88	850	1850	8000	12027	29054	0
MISC-117	Studies and PER's - Organization Wide	3500	1750	0	1750	0	0	700	700	700	700	700	0
MISC-118	Nottoway Tank Site Development	800	400	0	400	0	0	200	600	0	0	0	0
MISC-200	Vehicle Replacement Program	7523	0	0	7523	0	0	1983	1075	1400	1400	1665	0
MISC-201	Mechanical Equipment Replacement Program	13411	0	0	13411	0	0	2210	3176	2866	2489	2670	0
MISC-202	Computer and Other Replacement Program	6100	0	0	6100	0	0	1200	1200	1550	1550	600	0
MISC-203	Major Facility Rehabilitation Program	9760	0	0	9760	0	0	1260	3000	2750	2000	750	0
	TOTAL: MISCELLANEOUS PROJECTS	142920	51764	0	91157	0	2427	12448	18911	26486	29449	43899	9300

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY													
	CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024 - 2028 INFORMATION TECHNOLOGY PROJECTS													
			ESTIMATED PROJECT COST	FUNDING SOURCES					SPEN	IDING SCH	EDULE			
СІР	Number	PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28
I	T-105	JD Edwards Upgrade	1329	0	0	1329	0	829	0	250	250	0	0	0
I	T-106	Cayenta - CIS	1102	0	0	1102	0	402	250	0	250	200	0	0
	T-107	Computerized Maintenance Management System (CMMS) Implementation	3287	0	0	3287	0	532	1450	560	620	125	0	0
I	T-110	Document Management System Implementation	2580	0	0	2580	0	200	1560	420	275	125	0	0
	T-117	Vertical Asset Data Development	663	0	0	663	0	248	365	50	0	0	0	0
I	T-118	System Integration	1675	0	0	1675	0	1338	75	150	75	37	0	0
	T-121	Asset Management Analytics	1212	0	0	1212	0	222	215	600	175	0	0	0
	T-122	Project Management Information System (PMIS) Implementation	2315	695	0	1621	0	1474	175	475	127	64	0	0
	T-125	Network Security Upgrades	500	0	0	500	0	0	150	150	100	100	0	0
I	T-126	SCADA System Upgrade	22612	0	0	22612	0	2161	4838	5283	5068	5262	0	0
I	T-128	Web Content Management System Migration	375	0	0	375	0	166	209	0	0	0	0	0
I	T-129	Enterprise Resource Planning	11000	0	0	11000	0	0	0	2500	5000	3500	0	0
		TOTAL: INFORMATION AND TECHNOLOGY PROJECTS	48650	695	0	47956	0	7572	9287	10438	11940	9413	0	0

	PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028												
	REGIONAL UTILITY PROJECTS												
		ESTIMATED PROJECT COST		FUNDI	NG SOURCE	ES			SPEN	NDING SCH	IEDULE		
CIP Numbe	r PROJECT NAME	(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-24	FY-24	FY25	FY-26	FY-27	FY-28	BEYOND FY-28
REG-1	Occoquan River Crossing	31749	9525	0	22224	0	6617	12566	12566	0	0	0	0
REG-2	UOSA Expansion - Project 60	84200	0	84200	0	0	0	0	3100	7900	24400	24400	24400
	TOTAL: REGIONAL UTILITY PROJECTS	115949	9525	84200	22224	0	6617	12566	15666	7900	24400	24400	24400

CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028





SECTION B

PROJECT DATA SHEETS



WATER SUPPLY PROJECTS

REEDE



PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Water Meter Vault Improvements	Project Description:	Repair and replacement of commercial meter vaults county-wide as needed.
CIP Number:	WSUP-103	Project Benefit:	Aging meter vaults pose a safety issue for Field Services personnel servicing the
JDE Number(s):	24WCWV0001, 24WWLZ0001	-	respective meters. Maintenance of these facilities will provide a safe environment
Location:	Commercial Meter Vault Locations		for the repair, replacement, and necessary customer service.
Pressure Zone:	Multiple	Source Derivation:	Operations and Maintenance Division; Finance – Field Services; Managed by
Sewershed:	Multiple		Finance – Field Services.
Magisterial District:	Multiple		
Project Estimate:	Order of Magnitude		
Estimate By:	Finance - Field Services		

PROJECT PICTURE



PRE-FY24 POST- FY28 FY24 FY25 FY27 FY28 TOTAL FY26 0 175 125 125 125 125 0 675

PROJECT FUNDING

Proposed Fu	nding Sources
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
PROJECT TOTAL	100%

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Montclair / Four Seasons Water System Improvements	Project Description:	Construction of a new 3 MGD booster pumping station expandable to 8 MGD with associated power and control accessories, including an emergency generator. This
CIP Number:	WSUP-105		project also includes new 18-inch and 24-inch supply lines which shall cross Dewey's Creek and I-95, and a new 16-inch discharge main from the new booster
JDE Number(s):	22WMOM0801, 24WMOM0801		pumping station to Old Stage Road.
Location:	17361 Four Seasons Dr., Dumfries	Project Benefit:	This project shall provide auxiliary pumping capacity to the Cow Branch Booster
Pressure Zone:	MO – Montclair		Pumping Station, improve system reliability, as well as accommodate the
Sewershed:	DM – Dumfries		anticipated build-out demands in the Montclair and Oak Ridge pressure zones. This project shall also enable the Old Stage Booster Pumping Station, which is
Magisterial District:	PO – Potomac		outdated with limited capacity, to be removed from service.
Project Estimate:	Contract Award	Source Derivation:	WRA East End Water System Technical Memorandum, 2001; Hazen and Sawyer
Estimate By:	Engineering and Planning Division		PER, 2016; ACE D/B Team, 2021; Managed by the Project Management Office.

PROJECT FUNDING



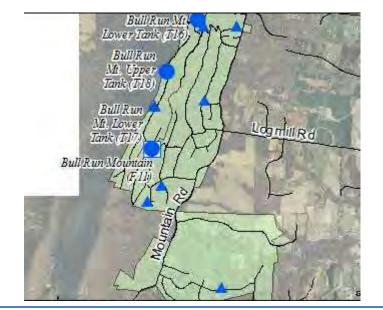
PROJECT PICTURE

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
6430	7800	1000	0	0	0	0	15230

Proposed Funding Sources				
Exp. Fund (02) – Availability Rates	35%			
Commit. Fund (03) – Availability Rates	-			
Repl. Fund (04) – User Rates	65%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

Pl	ROJECT INFORMATION	PROJECT DESCRIPTION			
Project Name:	Bull Run Mountain Well Upgrades	Project Description:	The design and construction of well improvements in the Bull Run Mountain Well		
CIP Number:	WSUP-111		Systems for backup supply. The project scope consists of structural modifications for updated chemical feed equipment and the installation of disinfection facilities		
JDE Number(s):	24WBHW0101		at various well sites; design of a replacement PRV vault to control flows and		
Location:	Bull Run Mountain / Evergreen Well Systems		pressures between service zones; the investigation, design, and construction of new well sites, piping, and a future booster pump to increase capacity in the		
Pressure Zone:	BH – Bull Run Mountain High, BW – Bull Run Mountain Low, EG - Evergreen		system.		
Sewershed:	N/A	Project Benefit:	These modifications and improvements shall increase reliability and enhance system operations.		
Magisterial District:	GN – Gainesville	Source Derivation:	Operations and Maintenance Division; Engineering and Planning Division; Bu		
Project Estimate:	PER		Service Area Well Improvements PER – Dewberry (June 2020); Managed by the		
Estimate By:	Engineering and Planning Division, Operations and Maintenance Division		Operations and Maintenance Division.		

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1739	200	650	237	0	0	0	2826

PROJECT FUNDING

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Manassas Southside Booster Pumping Station, F18	Project Description:	Design and construction of modifications to the Manassas Southside Booster Pumping Station. Modifications to include: a third pump and new impellers to		
CIP Number:	WSUP-112		increase pumping capacity from 2 MGD to 4 MGD, pump control valves, and variable frequency drives (VFDs). A standby generator shall be provided, the HVAC		
JDE Number(s):	22WMSF1851, 24WMSF1851		system shall be modified for easier maintenance, and the SCADA and electrical		
Location:	Blooms Quarry Ln., Manassas		systems shall be updated to current standards.		
Pressure Zone:	MS – Manassas Southside	Project Benefit:	The increased pumping capacity at the booster pumping station shall improve		
Sewershed:	YS – Yorkshire		pumping efficiencies, provide better service and reliability to existing and future customers, and meet growth demands within the Manassas Southside pressure		
Magisterial District:	CO – Coles		zone.		
Project Estimate:	Contract Award	Source Derivation:	Engineering and Planning Division; Operations and Maintenance Division;		
Estimate By:	Engineering and Planning Division		Manassas Southside Booster Pumping Station PER – Hazen and Sawyer (January 2018, Revision July 27, 2018); Managed by the Project Management Office.		

PROJECT FUNDING

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1565	35	0	0	0	0	0	1600

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	50%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	50%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				



PROJECT PICTURE

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Capital Meter Program	Project Description:	The SA installs meters as part of new installation due to growth and to replace or	
CIP Number:	WSUP-114		rebuild existing meters. Owners/developers pay a fee to cover new meter installation costs, which are recorded to the Expansion Fund. The SA has over	
JDE Number(s):	22WCWZ0001, 24WCWZ0001		95,000 meters to maintain, approximately 93% of which are residential that have	
Location:	County Wide		a 15 year or 1.5-million-gallon lifespan. Larger meter lifespan is more variable and can be repaired or rebuilt as needed. Estimates for meter replacement account	
Pressure Zone:	Multiple		for age and consumption of active meters and are made for the following year. On	
Sewershed:	Multiple		average, 5,500 meters require repair or replacement annually.	
Magisterial District:	Multiple	Project Benefit:	The goal of this project is to account for all new meter expenditures related to	
Project Estimate:	Order of Magnitude		growth, approximately \$400,000 annually. Proper maintenance and timely replacement of meters reduces water loss and maximizes revenue by accurately	
Estimate By:	Finance – Field Services		capturing consumption. The annual cost of replacing failing meters is approximately \$1.375 million (equivalent to 5,500 meters at \$250 per meter).	
		Source Derivation:	Finance – Customer Service Department; Managed by Finance – Field Services	

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	1525	1525	1525	1525	1525	0	7625

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	20%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	80%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Unity Reed Booster Pumping Station, F14 and Discharge Main	Project Description:	This project includes the design and construction of new and upgraded pumps and associated appurtenances, site work, electrical upgrades, new generator, new
CIP Number:	WSUP-116		SCADA systems, and a control building to expand the capacity of the Unity Reed (F14) booster pumping station from 18 MGD to 24 MGD. The project also includes
JDE Number(s):	22WGWM0901, 24WGWM0901		the design and construction of approximately 2,100 feet of 36-inch transmission
Location:	8814 Rixlew Ln., Manassas		main from the booster pumping station to Wellington Road and associated easement acquisition.
Pressure Zone:	GW - Gainesville		
Sewershed:	FB – Flat Branch	Project Benefit:	The increased pumping capacity at the booster pumping station shall impro pumping efficiencies and provide better service and reliability to existing a future customers in the Gainesville pressure zone. The project shall also provi
Magisterial District:	BR - Brentsville		
Project Estimate:	PER		an additional supply from the discharge at the booster pumping station to improve reliability in the Gainesville pressure zone should there be a disruption in the
Estimate By:	Engineering and Planning Division		existing 42-inch discharge main at the railroad crossing.
		Source Derivation:	Engineering and Planning Division; Gainesville Discharge Main PER - Michael Baker, July 2019; Managed by the Project Management Office.



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1170	500	6853	5803	0	0	0	14326

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	50%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	50%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PROJECT INFORMATION		PROJECT DESCRIPTION		
Eastern Area Pressure Reducing Valves	Project Description:	Design and construction of three pressure control valves and associated piping in		
WSUP-117		existing meter vaults and the Garfield Booster Pumping Station in the Woodbridge and Dumfries pressure zones. These control valves are required to regulate		
24WFWV0101		pressures during various pumping operations at Fairfax Water and enable the		
Multiple Meter Stations, Garfield BPS		bypass of the Garfield Booster Pumping Station during normal operations.		
WL – Woodbridge	Project Benefit:	Pressure control in the Woodbridge and Dumfries pressure zones is required when		
BM – Belmont		Fairfax Water increases the delivery pressure in portions of the existing transmission system as part of the Occoquan River Crossing project (REG-1). These		
WB – Woodbridge		control valves will avoid over-pressurization in both pressure zones and allow the		
Order of Magnitude		bypass of the Garfield Booster Pumping Station during normal operations to reduce pumping costs.		
Engineering and Planning Division	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.		
	Eastern Area Pressure Reducing Valves WSUP-117 24WFWV0101 Multiple Meter Stations, Garfield BPS WL – Woodbridge BM – Belmont WB – Woodbridge Order of Magnitude	Eastern Area Pressure Reducing ValvesProject Description:WSUP-11724WFWV010124WFWV0101Heter Stations, Garfield BPSWL – WoodbridgeProject Benefit:BM – BelmontWB – WoodbridgeWB – WoodbridgeOrder of MagnitudeEngineering and Planning DivisionHeter Stations		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
345	300	700	75	0	0	0	1420

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

WATER STORAGE PROJECTS





P	PROJECT INFORMATION		PROJECT DESCRIPTION	
Project Name:	Water Storage Tank Rehabilitation Program	Project Description:	Repair and rehabilitation of water storage tanks from defects including peeling	
CIP Number:	WST-110		paint, rust, pitting, and delaminating of the surface coat from the primer coat. In addition, the project shall install mixing systems as required while tanks undergo	
JDE Number(s):	Multiple		refurbishment. Other components that are upgraded as needed include lighting,	
Location:	County Wide		fencing, control valves, and SCADA systems. The storage tanks scheduled for rehabilitation during the 5-year CIP period include Dominion Valley (T-30),	
Pressure Zone:	Multiple		Nottoway (T-28), Forest Park (T-25) and Cardinal (T-06). The timing and	
Sewershed:	Multiple		execution are subject to change based on operational needs and priorities.	
Magisterial District:	Multiple	Project Benefit:	Preserve and extend the economic life of each water tank. In addition, the	
Project Estimate:	Order of Magnitude		project shall prevent stagnation of water within the tank with the installation of mixing systems.	
Estimate By:	Operations and Maintenance Division			
		Source Derivation:	Operations and Maintenance Division; Managed by the Project Management Office.	



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	40	1750	1750	1750	1348	0	6638

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Tank Re-Chlorination Program	Project Description:	Residual Control System (RCS) is a management system that provides an
CIP Number:	WST-111		intelligent, automated disinfectant boosting system that provides the ability to set, control, and maintain cost-effective chlorine residual levels in water storage
JDE Number(s):	Multiple		tanks. In addition, the project shall install the management system, controls, and
Location:	County Wide		ancillary equipment. Other Components that are upgraded as needed are electrical equipment, tank mixing system, and thermal probes to monitor mixing.
Pressure Zone:	Multiple		The storage tanks scheduled for an RCS system during this 5-year CIP period
Sewershed:	Multiple		include Braemar (T-26), Haymarket (T-20), Manassas Southside (T-24) and Landfill (T-31). The timing and execution are subject to change based on
Magisterial District:	Multiple		operational needs and priorities.
Project Estimate:	Order of Magnitude	Project Benefit:	This project provides an important safeguard against the risk of subsequent
Estimate By:	Operations and Maintenance Division		contamination after treatment, a unique and significant benefit for public health.
		Source Derivation:	Operations and Maintenance Division; Managed by the Project Management Office.

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	1315	1200	1200	1200	230	0	5145

PROJECT FUNDING

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

FY24 – FY28



WATER TRANSMISSION PROJECTS

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Dawkins Branch Transmission Main	Project Description:	Design and construction of approximately 6,650 feet of 30-inch water main along	
CIP Number:	WAT-115		University Boulevard from Sudley Manor Drive to the west side of Devlin Road.	
JDE Number(s):	22WBRM0101, 24WBRM0101, 22WGWM1301, 24WGWM1301		4,300 feet of the water main is to be designed and constructed by the SA from Edmonston Drive to Devlin Road, and 2,350 feet is to be designed and constructed with the PWC University Boulevard roadway expansion between Sudley Manor	
Location:	University Blvd. between Sudley Manor Dr. and Devlin Rd.		Drive and Edmonston Drive.	
Pressure Zone:	GW – Gainesville	Project Benefit:	This project shall extend a major transmission main through the center of the Gainesville pressure zone to convey additional pump discharge from the Unity	
Sewershed:	BR – Broad Run		Reed, F14 Booster Pumping Station. This project shall increase the transmission	
Magisterial District:	BR – Brentsville		capacity throughout the pressure zone and strengthen the supply to the Haymarket pressure zone.	
Project Estimate:	OPCC		P. 000 0. 0 10. 0.	
Estimate By:	Engineering and Planning Division	Source Derivation:	Gannett Fleming Western Zone Water Transmission Main Study, 1992; Managed by the Engineering and Planning Division, Project Management Office and Prince William County.	

1000

1500

PRE-FY24

529

PROJECT PICTURE



FY24 FY25 FY26 FY27 FY28 POST- FY28 TOTAL

0

2500

2237

PROJECT FUNDING

0

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	60%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	40%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

7766

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Gainesville to Manassas South Connector	Project Description:	Construction of approximately 6,500 feet of 16-inch water main to interconnect	
CIP Number:	WAT-122		the Manassas Southside and Gainesville pressure zones. This project also includes	
JDE Number(s):	22WMSM0101, 24WMSM0101		the construction of a pressure control valve vault to regulate the flows and pressures between zones.	
Location:	Harry J Parish Blvd. to Pennsylvania Ave.			
Pressure Zone:	MS – Manassas Southside, GW – Gainesville	Project Benefit:	Provides the capability to convey water between pressure zones at the san hydraulic gradient for increased reliability and redundancy. Additionally,	
Sewershed:	GD – Godwin Drive		project shall provide a secondary route for the transmission of water from Fairfax	
Magisterial District:	BR – Brentsville, CO – Coles		Water to all areas surrounding the City of Manassas served by the SA.	
Project Estimate:	OPCC	Source Derivation:	Engineering and Planning Division; WRA Water Supply and Distribution System	
Estimate By:	Engineering and Planning Division, CH2M, Hazen		Optimization Study, 2002; Managed by the Engineering and Planning Division and Project Management Office.	

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
820	0	0	0	378	2500	1556	5254

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	45%		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	45%		
Other Contrib. – Development Contributions	10%		
PROJECT TOTAL	100%		

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Possum Point Road Water Main – Phase 2	Project Description:	Replacement of approximately 11,800 feet of existing, aged 12-inch water main
CIP Number:	WAT-138		with new 12-inch water main along Possum Point Road from Howard Street to
JDE Number(s):	Not Assigned		Summer Duck Drive, and then from the Town of Dumfries limits to the terminus of Possum Point Road.
Location:	Howard St. to Summer Duck Dr., Town Limits to Possum Point Rd. terminus	Project Benefit:	Replacement of the existing water main that has corroded over time due to acidic soils resulting in numerous breaks over recent years shall improve system
Pressure Zone:	DT – Dumfries		reliability and lower maintenance costs.
Sewershed:	DM – Dumfries	Source Derivation:	Engineering and Planning Division; Managed by the Engineering and Planning
Magisterial District:	PO – Potomac		Division and Project Management Office.
Project Estimate:	Order of Magnitude		
Estimate By:	Engineering and Planning Division		

PROJECT PICTURE



PRE-FY24 FY24 FY28 POST- FY28 TOTAL FY25 FY26 FY27 0 0 0 408 2272 2000 0 4680

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Route 1 Transmission Main – Phase 1	Project Description:	Design and construction of approximately 13,500 feet of 30-inch water main along	
CIP Number:	WAT-181		Route 1 from the Garfield Booster Pumping Station to Route 234.	
JDE Number(s):	22WDMM0001, 24WDMM0001	Project Benefit:	This project shall increase transmission capacity and reliability within the Dumfries	
Location:	Rt. 1 from Garfield BPS to Rt. 234		pressure zone, increase pumping efficiency at the Garfield Booster Pump Station, and enhance the transfer of water into the Montclair pressure zone Potomac Shores area. This project shall also enable several existing, of	
Pressure Zone:	DM – Dumfries			
Sewershed:	Multiple		concrete and cast iron mains that have experienced numerous breaks to be removed from service.	
Magisterial District:	PO – Potomac and WB – Woodbridge			
Project Estimate:	Contract Award	Source Derivation:	Engineering and Planning Division; WRA East End Water System Technical Memo, 2001; Managed by the Project Management Office.	
Estimate By:	Engineering and Planning Division			

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
12882	311	0	0	0	0	0	13193

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	50%			
Repl. Fund (04) – User Rates	50%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PI	ROJECT INFORMATION	PROJECT DESCRIPTION		
Project Name:	Route 1 Transmission Main – Phase 2	Project Description:	Design and construction of approximately 8,750 feet of 24-inch water main along	
CIP Number:	WAT-182		Route 1 from Route 234 to Graham Park Road, and 5,500 feet of 16-inch water main along Old Triangle Road from Graham Park Road to Fuller Heights Road.	
JDE Number(s):	22WDMM0002, 24WDMM0002			
Location:	Rt. 1 from Rt. 234 to Fuller Heights Rd.	Project Benefit:	This project shall increase transmission capacity, reliability, and redundancy we the Dumfries pressure zone south of Route 234 and enable several existing	
Pressure Zone:	DM – Dumfries		cast iron water mains that have experienced numerous breaks to be removed	
Sewershed:	DM – Dumfries and LC – Little Creek		from service.	
Magisterial District:	PO – Potomac	Source Derivation:	Engineering and Planning Division; WRA East End Water System Technical Memo,	
Project Estimate:	Contract Award		2001; Managed by the Project Management Office.	
Estimate By:	Engineering and Planning Division			

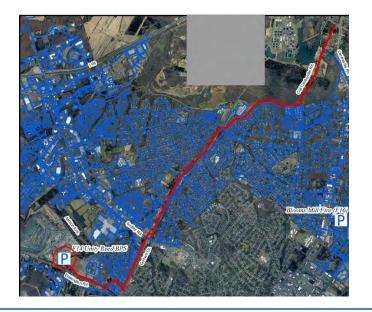
PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
11935	1481	0	0	0	0	0	13416

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	50%			
Repl. Fund (04) – User Rates	50%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Western Area Resiliency - Rt 28 Bypass	Project Description:	Design and construction of approximately 26,000 feet of 42-inch water main from	
CIP Number:	WAT-183		Rt. 28 in Fairfax County to the Unity Reed Booster Pumping Station. This project was recommended in the Master Plan as part of the redundancy/resiliency	
JDE Number(s):	Not Assigned		elements of the Levels of Service to mitigate the current single point of failure for	
Location:	FW Supply at Rt.28 to Unity Reed BPS		the 42" transmission main that delivers water for the Western water system. The first phase consisting of about 19,000 feet, will be designed and constructed in	
Pressure Zone:	Multiple		conjunction with the proposed Route 28 Bypass road project from Rt. 28 near	
Sewershed:	Multiple		Ordway Road in Fairfax County to the intersection of Sudley Road and Godwin Road in Prince William County. The second phase consisting of about 7,000 feet,	
Magisterial District:	Multiple		will continue the 42-inch water main from Sudley Road to the Unity Reed BPS.	
Project Estimate:	Master Plan/PER	Project Benefit:	This project will provide redundancy to the SA's Western Distribution System,	
Estimate By:	Engineering and Planning Division		enable the future rehabilitation of the existing 42-inch PCCP water main, and allow the new main to be operated at a higher gradient to bypass the Unity Reed BPS under certain demand and emergency conditions.	
		Source Derivation:	B&C Master Plan, 2022; Managed by the Engineering and Planning Division.	



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	500	500	7500	14000	14000	4325	40825

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	50%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	50%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PI	PROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Sudley Road Water Main – Phase 3	Project Description:	Design and construction of approximately 2,300 feet of 12-inch PVC water main,			
CIP Number:	WAT-184		145 feet of 8-inch PVC water main, 50 feet of 6-inch DIP water main and 105 feet of 4-inch PVC water main in Sudley Road from Godwin Drive to Thomas Drive to			
JDE Number(s):	24WGMM0701		replace the existing 14-inch CIP water main in conjunction with the City of			
Location:	Sudley Road from Godwin Drive to Thomas Drive	Project Benefit:	Manassas' proposed road improvement project. This project replaces a portion of an existing cast iron pipe water main with PV			
Pressure Zone:	Greater Manassas		pipe in Sudley Road that is currently out of service due to several breaks resulting from corrosive soils. Restoring service in this area will provide redundancy and			
Sewershed:	Flat Branch		improve hydraulic capacity to existing customers.			
Magisterial District:	N/A, City of Manassas	Source Derivation:	Engineering and Planning Division; Managed by the Engineering and Planning			
Project Estimate:	Engineer of Record/City of Manassas		Division.			
Estimate By:	Engineering and Planning Division					



PROJECT PICTURE

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
180	1000	1000	0	0	0	0	2180

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Water Distribution Asset Replacement Program	Project Description:	Replacement of water distribution assets including water main, hydrants, service lines, meter crocks, and isolation valves. The assets scheduled for replacement
CIP Number:	WAT-200		during this 5-year CIP period include: water mains in Paxton Street, King George street, Willow Lane, Norfolk Street, Salem Street, Cabin Road, Hylton Avenue,
JDE Number(s):	Multiple		Bayside Avenue and the replacement of hydrants and valves throughout the
Location:	County Wide		system. The timing and execution of these projects are subject to change based on operational needs and priorities.
Pressure Zone:	Multiple		
Sewershed:	Multiple	Project Benefit:	The replacement of water distribution assets will improve reliability, increase fire protection, reduce maintenance costs, and improve overall customer service.
Magisterial District:	Multiple		
Project Estimate:	Order of Magnitude	Source Derivation:	Operations and Maintenance Division; Managed by the Engineering and Planning Division, Project Management Office and Operations and Maintenance Division.
Estimate By:	Engineering and Planning Division		

PROJECT FUNDING



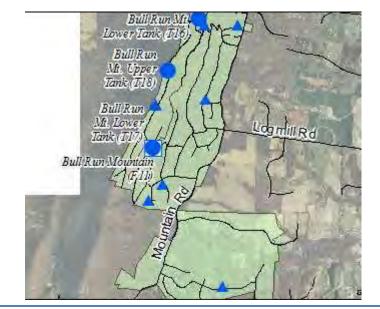
PROJECT PICTURE

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	3500	3500	3500	3500	3500	0	17500

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

Pl	ROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Bull Run Mountain Distribution System Improvements	Project Description:	Replacement and installation of water distribution assets including water mains, hydrants, service lines, meter crocks, and isolation valves. The assets scheduled			
CIP Number:	WAT-201		for replacement during this 5-year CIP period include: water mains in Youngs Drive and Oak Lane, and valve replacements. The timing and execution are subject to			
JDE Number(s):	Not Assigned		change based on operational needs and priorities.			
Location:	Bull Run Mountain	Project Benefit:	Many of the existing assets are located in residential backyards or are in close			
Pressure Zone:	BWU – Bull Run Upper, BWL – Bull Run		proximity to various structures and have had numerous breaks. The replacement			
	Lower, EG – Evergreen		and relocation of water distribution assets shall improve reliability, redu maintenance costs, increase operational efficiencies of the well sites, and impro			
Sewershed:	N/A		overall customer service.			
Magisterial District:	GN – Gainesville	Source Derivation:	Operations and Maintenance Division; Managed by the Engineering and Planning			
Project Estimate:	t Estimate: Order of Magnitude		Division and Project Management Office.			
Estimate By:	Engineering and Planning Division					

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	0	300	1000	1000	1000	0	3300

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	-		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	100%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

SEWAGE PUMPING STATION PROJECTS







PI	ROJECT INFORMATION	PROJECT DESCRIPTION		
Project Name:	Generator Replacement Program	Project Description:	This program upgrades or replaces aging diesel generators, transfer switches, and	
CIP Number:	SPS-100		appurtenances at SA facilities.	
JDE Number(s):	Not Assigned	Project Benefit:	This program improves and maintains a reliable, resilient, and operational system	
Location:	County Wide		by replacing aging generators and appurtenances. It eliminates the difficulty in obtaining replacement parts for old and outdated generators.	
Pressure Zone:	Multiple	Course Device them	On and in a difference of Division Managed by the One actions and	
Sewershed:	Multiple	Source Derivation:	Operations and Maintenance Division, Managed by the Operations and Maintenance Division.	
Magisterial District:	Multiple			
Project Estimate:	Order of Magnitude			
Estimate By:	Operations and Maintenance Division			

PROJECT PICTURE



PRE-FY24 FY24 FY25 FY28 POST- FY28 TOTAL FY26 FY27 0 340 820 1070 1070 1070 0 4370

PROJECT FUNDING

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

FY24 – FY28

PI	ROJECT INFORMATION	PROJECT DESCRIPTION		
Project Name:	Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37	Project Description:	The design and construction of the replacement of the antiquated Occoquan Forest Sewage Pumping Station OQL36, associated force main, and the	
CIP Number:	SPS-107		rehabilitation of Sewage Pumping Station OQL37. This project also includes the installation of emergency generators and by-pass connections on the force mains.	
JDE Number(s):	24SOQL7501 (L36), 24SOQL3701 (L37)			
Location:	10820 Split Rail Dr. and 6204 Ramblewood Tr., Manassas	Project Benefit:	This project will provide improved reliable service to the Occoquan Forest sewershed in compliance with the PWC Comprehensive Plan and VDEQ regulations. In addition, it shall reduce maintenance costs, provide new	
Pressure Zone:	HO – Hoadly		emergency backup power supplies, and improve safety conditions at both sewage	
Sewershed:	OQ – Occoquan Forest		pumping stations.	
Magisterial District:	OC – Occoquan	Source Derivation:	Engineering and Planning Division; Operations and Maintenance Division; Managed by the Project Management Office.	
Project Estimate:	Contract Award			
Estimate By:	Engineering and Planning Division			

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
6022	472	0	0	0	0	0	6494

PROJECT FUNDING

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET
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P	ROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Nokesville Sewage Pumping Station, L20 and Force Main	Project Description:	The design and construction of the replacement of the antiquated Nokesville Sewage Pumping Station, L20, and associated force main. The new sewage		
CIP Number:	SPS-108		pumping station shall be equipped with an emergency generator, a by-pass connection on the new force main, and new flow monitoring equipment.		
JDE Number(s):	24SNKL7701	Project Benefit:	This project shall provide improved, reliable service to the Nokesville sewershed		
Location:	12829 Fitzwater Dr., Nokesville		in compliance with the PWC Comprehensive Plan and VDEQ regulations. The		
Pressure Zone:	N/A		project shall reduce maintenance expenses, improve reliability, provide emergency backup power supply, and improve safety conditions at the sewage		
Sewershed:	NK – Nokesville		pumping station.		
Magisterial District:	BR - Brentsville	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.		
Project Estimate:	Contract Award				
Estimate By:	Engineering and Planning Division				



	PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
ľ	2629	212	0	0	0	0	0	2841

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PI	ROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Graham Park Sewage Pumping Station, L13	Project Description:	Replacement of the existing antiquated Graham Park Sewage Pumping Station.			
CIP Number:	SPS-112		The project shall include the installation of new submersible pumps with new controls, motors, emergency generator, by-pass connection on the force main			
JDE Number(s):	24SMRL7601		new flow metering, and SCADA equipment. The site layout shall also be improve			
Location:	3196 Shoreview Rd., Dumfries		to protect the facilities from storm surge flooding and new fencing around the premises shall be installed. Also included is the complete replacement of			
Pressure Zone:	DT – Dumfries		approximately 550 feet of existing 4-inch force main.			
Sewershed:	MR – Melrose	Project Benefit:	Improve service to existing customers in the Graham Park sewershed in			
Magisterial District:	PO – Potomac		compliance with the PWC Comprehensive Plan and VDEQ regulations. This project shall reduce maintenance costs, provide emergency backup power supply, and			
Project Estimate:	Contract Award		improve safety conditions at the sewage pumping station.			
Estimate By:	Engineering and Planning Division	Source Devivation.	Operations and Maintonance Division: Managed by the Dreject Management			
		Source Derivation:	Operations and Maintenance Division; Managed by the Project Management Office.			



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
4767	62	0	0	0	0	0	4829

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees -				
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PROJECT INFORMATION			PROJECT DESCRIPTION
Project Name:	Heritage Hunt Sewage Pumping Station, L52 and Force Main	Project Description:	Replacement of the Heritage Hunt Sewage Pumping Station to increase pumping capacity from 5 MGD to 8 MGD. The project shall include a manual screen, dual
CIP Number:	SPS-113		channel grinders, dry-pit submersible pumps and associated piping and valves, bioxide odor control system, new flowmeters, and a crane system. This project
JDE Number(s):	22SLBL5202, 24SLBL5202, 22SLBM9001, 24SLBM9001		also includes the design and construction of approximately 10,250 feet of 24-inch force main from the station to the existing 24-inch force main south of I-66,
Location:	6588 Alderwood Way, Gainesville		parallel to the existing 10-inch and 16-inch force mains already in service.
Pressure Zone:	HM – Haymarket	Project Benefit:	Continued access to public sewer service for residential and commercial
Sewershed:	LB – Little Bull Run		developments in the Little Bull Run sewershed in conformance with the PWC Comprehensive Plan in effect through December 13, 2022. Ultimate development
Magisterial District:	GN – Gainesville		of the service area will exceed the capacity of the current station. Discharge
Project Estimate:	Contract Award		capacity of the station will be increased to meet current and future development needs.
Estimate By:	Engineering and Planning Division	Source Derivation:	Engineering and Planning Division; Dewberry Opinion of Probable Construction Cost, 2021; Managed by the Project Management Office.



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
10715	17000	10000	6276	0	0	0	43991

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	50%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	50%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Belmont Sewage Pumping Station, L17 and Force Main	Project Description:	Replacement of the existing Belmont Sewage Pumping Station to increase pumping capacity from 8 MGD to 12 MGD. This project will include a new influent
CIP Number:	SPS-115		channel, channel grinder, wet well, flow meters, odor control, SCADA, mechanical and electrical equipment, and a standby generator. This project also includes the
JDE Number(s):	22SBML0201, 24SBML0201		evaluation of constructing a new parallel force main to improve overall pumping
Location:	13760 Dabney Rd., Woodbridge		operations in the collection system.
Pressure Zone:	WL – Woodbridge	Project Benefit:	This project shall provide adequate pumping capacity to serve future development
Sewershed:	BM – Belmont		within the sewer shed in conformance with the PWC Comprehensive Plan. This project will also relieve capacity constraints in the existing 30-inch force main
Magisterial District:	WB – Woodbridge		coming from the Occoquan Creek Sewage Pumping Station by conveying the
Project Estimate:	OPCC		Belmont Sewage Pumping Station flows directly into the Colchester Interceptor.
Estimate By:	Engineering and Planning Division	Source Derivation:	GHD Belmont Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by the Project Management Office.



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
944	1000	800	2500	6000	5289	0	16533

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	30%		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	70%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Hornbaker Sewage Pumping Station, L06 and Force Main	Project Description:	Rehabilitation of the antiquated Hornbaker Sewage Pumping Station and construction of approximately 1,360 feet of 6-inch force main routed from the
CIP Number:	SPS-116		Hornbaker Sewage Pumping Station to Occoquan Road to replace the existing 6- inch force main that has experienced numerous breaks.
JDE Number(s):	24SOCL0601		
Location:	Sport & Health Dr., Woodbridge	Project Benefit:	This project shall improve service and reliability to existing customers in compliance with the PWC Comprehensive Plan and VDEQ regulations. The project
Pressure Zone:	WL – Woodbridge		shall reduce maintenance costs, improve reliability, and the new force main shall
Sewershed:	OC – Occoquan Creek		enhance operations and improve reliability of the pumping station.
Magisterial District:	OC – Occoquan	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.
Project Estimate:	Order of Magnitude		
Estimate By:	Engineering and Planning Division		

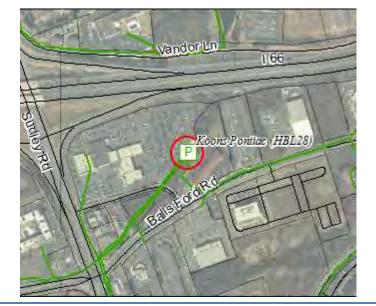


PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
200	513	3000	253	0	0	0	3966

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	-		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	100%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Koon's Sewage Pumping Station, L28	Project Description:	Replacement of the Koon's Sewage Pumping Station to include new pumps and	
CIP Number:	SPS-118		motors, grinder, wet well, meter/valve vault, HVAC, odor control, SCADA, mechanical and electrical equipment, standby generator, and perimeter fencing.	
JDE Number(s):	24SBUL0101			
Location:	10640 Automotive Dr., Manassas	Project Benefit:	This project shall improve service and reliability to existing and future customers within the sewershed and reduce maintenance costs.	
Pressure Zone:	GW – Gainesville			
Sewershed:	BU – Bull Run	Source Derivation:	GHD Koon's Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by the Project Management Office.	
Magisterial District:	GN – Gainesville			
Project Estimate:	PER			
Estimate By:	Engineering and Planning Division			

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
586	1000	2238	1500	0	0	0	5324

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	-	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	100%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

P	ROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Spinnaker Court Sewage Pumping Station, LO2 and Force Main	Project Description:	Replacement of the Spinnaker Court Sewage Pumping Station to include new pumps and motors, grinder, wet well, meter/valve vault, HVAC, odor control,		
CIP Number:	SPS-123		SCADA, mechanical and electrical equipment, standby generator, and perimeter fencing. Also included is the construction of approximately 500 feet of 6-inch force		
JDE Number(s):	24SHRL0101		main to replace the existing 4-inch force main.		
Location:	2280 Spinnaker Ct., Woodbridge	Project Benefit:	Upgrade an antiqued sewage pumping station, which was built in 1970, to ne		
Pressure Zone:	LR – Lake Ridge		standards to improve station operation, reliability, security and reduce		
Sewershed:	HR – Hooes Run		maintenance costs.		
Magisterial District:	OC – Occoquan	Source Derivation:	GHD Spinnaker Court Sewage Pumping Station Preliminary Engineering Report,		
Project Estimate:	PER		2020; Managed by the Project Management Office.		
Estimate By:	Engineering and Planning Division				



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
609	1000	1430	1500	0	0	0	4539

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

P	ROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Occoquan Creek Sewage Pumping Station, L04 and Gravity Main	Project Description:	Replacement of the existing Occoquan Creek Sewage Pumping Station to a new location to include the installation of new higher capacity pumps and associated		
CIP Number:	SPS-125		piping and valves, mechanical and electrical equipment, flow meters, SCADA system, standby generator, and security measures. This project also includes the		
JDE Number(s):	24SOCL0701		design and construction of a new incoming 42-inch gravity main and provisions f		
Location:	13221 Marina Way, Woodbridge		emergency storage. This project is planned to be executed with a Project Labor Agreement.		
Pressure Zone:	WL – Woodbridge				
Sewershed:	OC – Occoquan Creek	Project Benefit:	The project shall improve pump station operation, reliability, security, increase capacity for new customers, and reduce the risk of flooding by relocating the		
Magisterial District:	WB – Woodbridge		station further away from Occoquan Creek.		
Project Estimate:	Order of Magnitude	Source Derivation:	GHD Occoquan Creek Sewage Pumping Station Preliminary Engineering Report,		
Estimate By:	Engineering and Planning Division		2018; Managed by the Project Management Office.		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
505	600	5745	6000	2539	0	0	15389

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	20%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	80%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Piney Branch Sewage Pumping Station, L26 and Gravity Main	Project Description:	Demolition of the existing Piney Branch Sewage Pumping Station that is undersized and has reached the end of its service life and construction of
CIP Number:	SPS-126		approximately 6,600 feet of 24-inch gravity sewer main to combine the Piney Branch Sewershed with the Broad Run Sewershed. This project shall be
JDE Number(s):	Not Assigned		constructed in conjunction with proposed future development using the Utility
Location:	Piney Branch SPS		System Improvement Opportunity (USIO).
Pressure Zone:	GW – Gainesville	Project Benefit:	Eliminate an antiqued sewage pumping station and provide a higher capacity
Sewershed:	PB – Piney Branch, BR – Broad Run		gravity sewer main to provide reliable service to the combined sewersheds in compliance with VDEQ regulations.
Magisterial District:	BR – Brentsville		
Project Estimate:	Order of Magnitude	Source Derivation:	Engineering and Planning Division; Managed by the Engineering and Planning Division.
Estimate By:	Engineering and Planning Division		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1070	0	500	1000	1090	0	0	3660

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	60%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	15%			
Other Contrib. – Development Contributions	25%			
PROJECT TOTAL	100%			

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Hooes Run Sewage Pumping Station, L01 and Force Main	Project Description:	Replacement of the existing 48-year-old Hooes Run Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), electrical, SCADA,
CIP Number:	SPS-134		HVAC system, and force main, and include security measures and emergency storage considerations.
JDE Number(s):	24SHRL0201	.	
Location:	2502 Old Bridge Rd., Woodbridge	Project Benefit:	The project shall improve pump station operation, reliability, security, reduce maintenance costs and ensure projected long-term wastewater flows are
Pressure Zone:	LR – Lake Ridge		satisfied.
Sewershed:	HR – Hooes Run	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.
Magisterial District:	OC – Occoquan		
Project Estimate:	OPCC		
Estimate By:	Engineering and Planning Division		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
213	600	3234	12000	11008	0	0	27055

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	35%	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	65%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

PI	PROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Yorkshire Sewage Pumping Station, L30 and Force Main	Project Description:	Rehabilitation of the existing 40-year-old Yorkshire Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), electrical, SCADA,			
CIP Number:	SPS-135		and HVAC systems as required, and include security measures and emergency storage considerations.			
JDE Number(s):	24SYSL010					
Location:	7415 Lake Dr., Manassas	Project Benefit:	The project shall improve pump station operation, reliability, security, red maintenance costs and ensure projected long-term wastewater flows			
Pressure Zone:	GM – Greater Manassas/Yorkshire		satisfied.			
Sewershed:	YS – Yorkshire	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.			
Magisterial District:	CO – Coles					
Project Estimate:	OPCC					
Estimate By:	Engineering and Planning Division					

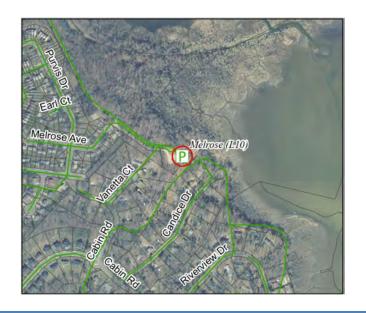


PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
210	761	2500	2535	2500	0	0	8506

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	45%	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	55%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

PI	PROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Melrose Sewage Pumping Station, L10	Project Description:	Rehabilitation of the existing 47-year-old Melrose Sewage Pumping Station to			
CIP Number:	SPS-136		include an increase in firm pumping capacity to meet current design standards, and to improve grinder, electrical, SCADA, and HVAC systems, plus security			
JDE Number(s):	24SDML0201		measures and emergency storage considerations.			
Location:	3350 Melrose Ave., Triangle					
Pressure Zone:	DT – Dumfries/Triangle	Project Benefit:	The project shall improve pump station operation, reliability, security, reduce			
Sewershed:	MR – Melrose		maintenance costs and ensure projected long-term wastewater flows are satisfied.			
Magisterial District:	PO – Potomac					
Project Estimate:	OPCC	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.			
Estimate By:	Engineering and Planning Division					

PROJECT PICTURE

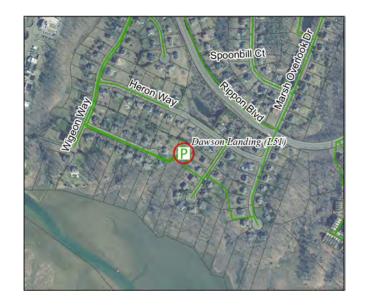


PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
208	708	2000	3353	2000	0	0	8269

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	-	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	100%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Dawson Landing Sewage Pumping Station, L51	Project Description:	Replacement of the existing 26-year-old Dawson Landing Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), electrical,
CIP Number:	SPS-137		SCADA, and HVAC systems as required, and include security measures and emergency storage considerations.
JDE Number(s):	24SNEL0401		
Location:	1599 Whistling Swan Way, Woodbridge		
Pressure Zone:	WL – Woodbridge	Project Benefit:	The project shall replace defective pumps to improve pump station operation,
Sewershed:	NE – Neabsco		reliability, security, reduce maintenance costs and ensure projected long-term wastewater flows are satisfied.
Magisterial District:	WB – Woodbridge		
Project Estimate:	OPCC	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.
Estimate By:	Engineering and Planning Division		

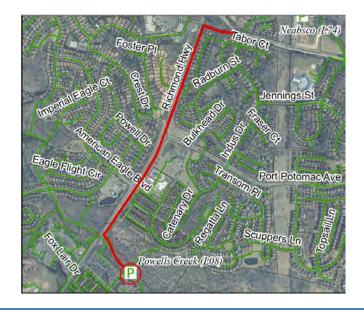
PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
206	0	517	1000	3071	2000	0	6794

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	-	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	100%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Powell's Creek Sewage Pumping Station, L08 and Force Main	Project Description:	Rehabilitation/replacement of the existing 25-year-old Powell's Creek Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity),
CIP Number:	SPS-138		electrical, SCADA, and HVAC systems as required, and include security measures and emergency storage considerations. Also included is the replacement of
JDE Number(s):	22SPCL0401 & 24SPCL0401		approximately 6,100 feet of existing 24-inch force main.
Location:	2750 Dettingen Place, Woodbridge		
Pressure Zone:	DT - Dumfries		
Sewershed:	PC – Powell's Creek	Project Benefit:	The project shall improve pump station operation, reliability, security, reduce maintenance costs and ensure projected long-term wastewater flows are
Magisterial District:	WB – Woodbridge		satisfied.
Project Estimate:	Order of Magnitude	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.
Estimate By:	Engineering and Planning Division		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
155	500	700	5000	8000	5645	0	20000

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	50%		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	50%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

PROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	North Fork Sewage Pumping Station, L39	Project Description:	Rehabilitation/replacement of the existing 30-year-old North Fork Sewage		
CIP Number: SPS-139			Pumping Station to upgrade structural, mechanical (piping and pumping capaci electrical, SCADA, and HVAC systems as required, and include security measu		
JDE Number(s):	222SNBL0301 & 24SNBL0301		and emergency storage considerations.		
Location:	14650 Otter Creek Court, Gainesville				
Pressure Zone:	HM – Haymarket	Project Benefit:	The project shall improve pump station operation, reliability, security, reduce		
Sewershed:	NB – North Branch		maintenance costs and ensure projected long-term wastewater flows are satisfied.		
Magisterial District:	BR – Brentsville				
Project Estimate:	Order of Magnitude	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.		
Estimate By:	Engineering and Planning Division				



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
131	0	400	600	4000	6500	2369	14000

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	45%	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	55%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

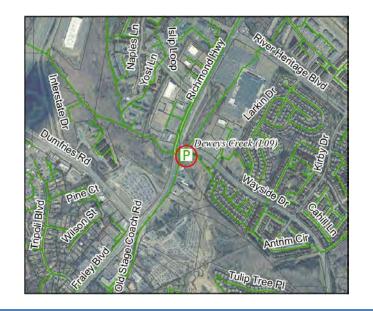
Pl	PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Occoquan Plant Sewage Pumping Station, L14	Project Description:	Rehabilitation/replacement of the existing 12-year-old Occoquan Plant Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity),		
CIP Number: SPS-140			electrical, SCADA, and HVAC systems as required, and include security meas and emergency storage considerations.		
JDE Number(s): 22SOSL0501 & 24SOSL0501					
Location:	12715 Sea Ray Lane, Woodbridge				
Pressure Zone:	WL – Woodbridge	Project Benefit:	The project shall improve pump station operation, reliability, security, reduce		
Sewershed:	OS – Occoquan Plant		maintenance costs and ensure projected long-term wastewater flows are satisfied.		
Magisterial District:	OC – Occoquan				
Project Estimate:	Order of Magnitude	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.		
Estimate By:	Engineering and Planning Division				



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
133	0	400	600	5000	7500	4867	18500

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	20%		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	80%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

PI	ROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Dewey's Creek Sewage Pumping Station, L09	Project Description:	Rehabilitation/replacement of the existing 49-year-old Dewey's Creek Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity),			
CIP Number: SPS-141			electrical, SCADA, and HVAC systems as required, and include security measure and emergency storage considerations.			
JDE Number(s):	22SDEL0201 & 24SDEL0201					
Location:	17199 Jefferson Davis Hwy., Dumfries					
Pressure Zone:	DT – Dumfries	Project Benefit:	The project shall improve pump station operation, reliability, security, red			
Sewershed: DE – Dewey's Branch			maintenance costs and ensure projected long-term wastewater flows are satisfied.			
Magisterial District:	PO – Potomac					
Project Estimate:	Order of Magnitude	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.			
Estimate By:	Engineering and Planning Division					



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
136	0	400	600	5000	8000	5864	20000

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	15%		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	85%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Featherstone Sewage Pumping Station, L16, and Force Main	Project Description:	Rehabilitation/replacement of the existing 44-year-old Featherstone Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity),
CIP Number:	SPS-142		electrical, SCADA, and HVAC systems as required, and include security measures and emergency storage considerations.
JDE Number(s):	22SFSL0401 & 24SFSL0401		
Location:	3458 Canal Road, Dumfries		
Pressure Zone:	DT – Dumfries	Project Benefit:	The project shall improve pump station operation, reliability, security, reduce
Sewershed:	DM – Dumfries		maintenance costs and ensure projected long-term wastewater flows are satisfied.
Magisterial District:	PO – Potomac		
Project Estimate:	Order of Magnitude	Source Derivation:	B&C Master Plan, 2022; Managed by the Engineering and Planning Division and Project Management Office.
Estimate By:	Engineering and Planning Division		

PROJECT PICTURE

Featherstone (L16)

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
75	500	800	2200	7500	7500	28425	47000

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	45%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	55%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			



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SEWAGE COLLECTION PROJECTS



P	PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Dumfries Force Main and Water Main	Project Description:	Replacement and relocation of approximately 4,000 feet of existing 16-inch force main and replacement of approximately 760 feet of existing 3-inch water main		
CIP Number:	SEW-106		with new 6-inch DIP water main.		
JDE Number(s):	24SDMM4502	Project Benefit:	The existing force main has experienced numerous breaks and presents a hig		
Location:	Dumfries		risk of a major sanitary sewer overflow (SSO). The project shall increase pumpir		
Pressure Zone:	DT – Dumfries		station efficiencies, improve flow capacity and reduce maintenance costs in the sewer system. This project shall also improve the water distribution system by		
Sewershed:	DM – Dumfries		replacing a smaller water main with a larger one and completing a system loop.		
Magisterial District:	PO – Potomac	Source Derivation:	Engineering and Planning Division; Operations and Maintenance Division;		
Project Estimate:	Contract Award		Managed by the Project Management Office.		
Estimate By:	Engineering and Planning Division				

PROJECT PICTURE

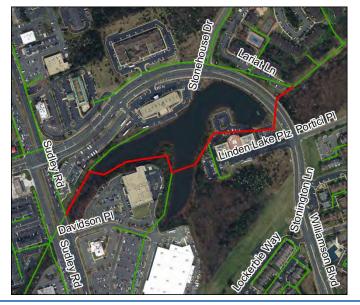


POST-PRE-FY24 FY24 FY25 FY26 FY27 FY28 TOTAL FY28 4251 423 0 0 0 0 0 4674

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees -					
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

P	ROJECT INFORMATION	PROJECT DESCRIPTION			
Project Name:	Sudley Road Sewer Main	Project Description:	Design and construction of approximately 2,840 feet of 24-inch sanitary sewer		
CIP Number:	SEW-157		main and manholes from Sudley Road to Williamson Boulevard to replace an existing 12-inch gravity sewer main.		
JDE Number(s):	22SBUM0102				
Location:	Sudley Rd. at the intersection with Coverstone Dr.	Project Benefit:	This project shall increase capacity along the Sudley Road corridor accommodate future anticipated growth.		
Pressure Zone:	GM – Greater Manassas	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.		
Sewershed:	BR –Bull Run				
Magisterial District:	GN – Gainesville				
Project Estimate:	Contract Award				
Estimate By:	Engineering and Planning Division, Baker				

PROJECT PICTURE



PRE-F	/2 4	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
462	8	718	0	0	0	0	0	5346

Proposed Fu	Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	75%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	25%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION
Project Name:	I-66 Rest Area Sewer Main
CIP Number:	SEW-158
JDE Number(s):	24SBRM0501
Location:	Manassas, I-66 Rest Area
Pressure Zone:	GM – Greater Manassas
Sewershed:	BR – Bull Run
Magisterial District:	GN – Gainesville
Project Estimate:	Order of Magnitude
Estimate By:	Engineering and Planning Division

PROJECT PICTURE



	PROJECT DESCRIPTION
Project Description:	Replacement of approximately 350 feet of existing 16-inch gravity sanitary sewer main with an 18-inch gravity sewer main inside a 30-inch casing pipe crossing under I-66.
Project Benefit:	The existing gravity sanitary sewer main is showing signs of severe deterioration and has several sags. Replacement shall restore capacity, increase reliability, minimize the potential for a sanitary sewer overflow (SSO), and reduce inflow and infiltration.
Source Derivation:	Operations and Maintenance Division; Managed by the Project Management Office.

PROJECT FUNDING

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
65	274	561	1000	0	0	0	1900

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees -					
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Sewer Collection Rehabilitation & Replacement Program	Project Description:	Rehabilitation, replacement and/or stabilization of sewer collection system facilities including sewer main and manhole re-lining, isolation and air-release
CIP Number:	SEW-200		valve repair and replacement, sewer lateral repairs, and other miscellaneous system repairs. Facilities scheduled for rehabilitation during this 5-year CIP
JDE Number(s):	Multiple		period include the re-lining of sewer main in Milroy Drive, Rippon Landing, Old
Location:	County Wide		Triangle Road, Old Bridge Road, Oakwood Drive, Yorktown Drive, Smoketown Road and Paxton Road, in addition to miscellaneous manhole rehabilitation and
Pressure Zone:	Multiple		service line repairs. The timing and execution are subject to change based on operational needs and priorities.
Sewershed:	Multiple		operational needs and priorities.
Magisterial District:	Multiple	Project Benefit:	The rehabilitation or replacement of sewer collection system facilities will reduce maintenance costs, reduce inflow and infiltration, and extend the life of the
Project Estimate:	Order of Magnitude		assets.
Estimate By:	Operations and Maintenance Division	Source Derivation:	Operations and Maintenance Division; Managed by the Operations and Maintenance Division.

PROJECT FUNDING

PR	E-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
	0	600	600	600	600	600	0	3000

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			



PROJECT PICTURE

WATER RECLAMATION FACILITY PROJECTS





P	ROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Ongoing Renewal and Replacement	Project Description:	On-going major updating, restoration, and replacement projects for management of the H.L. Mooney AWRF to maintain and extend useful life of assets and address			
CIP Number:	WRF-123		regular wear and asset aging.			
JDE Number(s):	Multiple	Project Benefit:	Maintain operations, permit compliance, and plant resilience.			
Location:	H.L. Mooney AWRF					
Pressure Zone:	WL - Woodbridge	Source Derivation:	Environmental Services and Water Reclamation Division; Managed by the Project Management Office.			
Sewershed:	NE – Neabsco					
Magisterial District:	WB - Woodbridge					
Project Estimate:	Order of Magnitude					
Estimate By:	Environmental Services and Water Reclamation Division					



	PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
Ì	1442	400	400	400	400	400	6200	9642

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	30%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	70%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PF	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Dynamic Hydraulic Model and Instrumentation	Project Description:	A full-plant hydraulic simulation model representing existing facilities and controls will be developed for the H.L. Mooney AWRF. The project includes data collection, installation of metering, model development and calibration, and a PER for
CIP Number:	WRF-126		hydraulic improvements. The hydraulic modeling is phased: the first phase from
JDE Number(s):	24NMPP0801, 22NMPP0801		plant inlet through primary clarifiers, and then from bioreactor basins to the outfall. The first phase is complete.
Location:	H.L. Mooney AWRF		
Pressure Zone:	WL - Woodbridge	Project Benefit:	The model facilitates selection of physical plant improvements to meet hydraulic capacity needs and addresses potential to overflow.
Sewershed:	NE – Neabsco		
Magisterial District:	WB - Woodbridge	Source Derivation:	Environmental Services and Water Reclamation Division; Managed by the Project Management Office.
Project Estimate:	Order of Magnitude		-
Estimate By:	Environmental Services and Water Reclamation Division		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
665	0	100	200	300	0	0	1265

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	30%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	70%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	FBI and Solids Building Repairs and Modifications	Project Description:	Repair and refurbish of the existing Solids Building and Fluidized Bed Incinerator (FBI) equipment, including design and installation of new or replacement equipment from the gravity thickeners to the ash basins. Projects will include a
CIP Number:	WRF-131		condition assessment, solids equipment upgrades, ash basin improvements, new
JDE Number(s):	22NMPP1201, 24NMPP1201		heat exchanger, ducts and plenums, and Solids Building modifications, repairs, and refurbishment.
Location:	H.L. Mooney AWRF		
Pressure Zone:	WL – Woodbridge	Project Benefit:	Necessary for operational resilience and regulatory compliance for solids handling.
Sewershed:	NE – Neabsco		
Magisterial District:	WB – Woodbridge	Source Derivation:	Environmental Services and Water Reclamation Division; Managed by the Project Management Office.
Project Estimate:	Order of Magnitude		
Estimate By:	Environmental Services and Water Reclamation Division		



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1864	480	600	1650	1650	650	0	6894

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	30%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	70%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION	PROJECT DESCRIPTION		
Project Name:	Bioreactor Basin Improvements	Project Description:	Major bioreactor basin equipment renewal including, but not limited to, mixers, meters, diffusers, baffles, gates, pumps, and blowers. Modification to the	
CIP Number:	WRF-134		bioreactor basin equipment, instrumentation and controls, and engineering	
JDE Number(s):	24SMPQ0101		evaluations and pilot testing, to improve such things as, but not limited to, mixed liquor settling, improve process monitoring and control, adjust biological	
Location:	H.L. Mooney AWRF		reactions, and reduce chemical dosages. Upgrades to blowers including, but not	
Pressure Zone:	WL – Woodbridge		limited to, technology, motors, and various blower components and technology.	
Sewershed:	NE – Neabsco	Project Benefit:	Increased operational resilience, permit compliance, and maximization of	
Magisterial District:	WB – Woodbridge		treatment capacity in existing infrastructure.	
Project Estimate:	Order of Magnitude	Source Derivation:	Environmental Services and Water Reclamation Division; Managed by the Project	
Estimate By:	Environmental Services and Water Reclamation Division		Management Office.	

PROJECT FUNDING

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1672	320	345	500	500	500	0	3837

Proposed Fu	Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	30%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	70%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				



PROJECT PICTURE

Р	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Facility Wide Improvements – Design-Build Project	Project Description:	Project includes improvements to several areas of the plant including: primary clarifier and facility odor control upgrades; primary clarifier collection equipment upgrades; primary clarifier electrical improvements; equalization basin
CIP Number:	WRF-138		modifications; influent flow diversion structure; UV Building – additional UV
JDE Number(s):	22SMPP0012, 24SMPP0012		equipment; yard valve replacement; methanol storage addition; lime system upgrades; ferric system improvements; secondary clarifier improvements; plant
Location:	H.L. Mooney AWRF		structural protection and refurbishment; polymer system replacement; solids
Pressure Zone:	WL – Woodbridge		facilities improvements; headworks capacity improvements; Featherstone SPS force main improvements; and refurbishment of the freight elevators in the
Sewershed:	NE – Neabsco		Control & Process and Solids Handling Buildings.
Magisterial District:	WB – Woodbridge	Project Benefit:	This project will provide improved plant reciliency, level of service, and allow the

Project Benefit:

Source Derivation:

PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

PROJECT PICTURE

Order of Magnitude

RK&K



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
16083	17000	48150	49186	46000	46000	0	222419

PROJECT FUNDING

plant to continue to meet its NPDES permit requirements.

Management Office.

This project will provide improved plant resiliency, level of service, and allow the

Environmental Services and Water Reclamation Division; Managed by the Project

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	30%			
Repl. Fund (04) – User Rates	70%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

FY24 – FY28

Project Estimate:

Estimate By:



MISCELLANEOUS PROJECTS

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P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Water and Sewer Utility System Improvement Opportunity (USIO)	Project Description:	This project provides the funding for the SA to participate in the design and construction of water and sewer infrastructure and appurtenances in conjunction with new development and VDOT/County road projects. This project also covers
CIP Number:	MISC-100		the cost to increase pipe sizes in accordance with the utility system requirements
JDE Number(s):	Multiple		and studies to provide additional capacity and improve system operations and efficiencies. The funding for this program is allocated evenly between the
Location:	County Wide		Expansion and Replacement funds to account for the undefined betterments;
Pressure Zone:	Multiple		however, each project shall be evaluated independently to determine the appropriate funding allocation.
Sewershed:	Multiple		
Magisterial District:	Multiple	Project Benefit:	This project provides for a more efficient and effective way for the timely extension of infrastructure and improvement of system operations.
Project Estimate:	Order of Magnitude		
Estimate By:	Engineering and Planning Division	Source Derivation:	Engineering and Planning Division; Managed by the Engineering and Planning Division.

PROJECT FUNDING

	PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
I	0	1440	1600	1600	1600	1600	0	7840

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	50%			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	50%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PROJECT PICTURE



	F WCJA CAFTI		
5	PROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Water & Sewer Facilities Security Enhancements	Project Description:	To mitigate risks and potential threats identified in the Vulnerability Assessment performed on the SA water distribution and sewer collection facilities by installing or upgrading security features or equipment at various SA owned and operated
CIP Number:	MISC-101		facilities throughout PWC. Security enhancements include, but are not limited, to
JDE Number(s):	24NCWU0004, 74WHOF0001, 74NLRS0001		fencing, security cameras, card readers, security gates, signage, security guards, bollards, locks, barriers, berms, lighting, alarms, and IT enhancements.
Location:	County Wide		
Prossure Zone:	Multiplo	Project Benefit:	This project will provide protection against unauthorized entry, vandalism, and/or

Source Derivation:

PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

PROJECT PICTURE

Order of Magnitude

Operations and Maintenance Division

Multiple

Multiple

Multiple



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	585	410	420	450	410	0	2275

PROJECT FUNDING

enhancement program.

destruction of facilities. The enhancements will serve to minimize potential

threats to the water distribution, sewer collection systems, wastewater treatment facility and help prevent endangerment of employees and the general public. This

project will comply with the Federal Mandate for security audit and security

Federal Mandate of Vulnerability Study for Utility Systems, Operations and

Maintenance; Managed by the Operations and Maintenance Division.

Proposed Fu	nding Sources
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
PROJECT TOTAL	100%

FY24 – FY28

Pressure Zone:

Magisterial District:

Project Estimate:

Estimate By:

Sewershed:

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Wellington Road Operations Center Expansion	Project Description:	Design and construction of approximately a 26,000 square foot Operations Center Building with a 13,000 square foot mezzanine and storage sheds on the Wellington Operations Center property. Proposed site improvements include the
CIP Number:	MISC-102		relocation of an existing storm water management pond for better space
JDE Number(s):	12NWCH0001, 14NWCH0001		utilization, more parking spaces, and additional fuel and material storage. Additionally, the project shall assess the flow of traffic around the facility and
Location:	Virginia Meadows Industrial Park		propose improvements as necessary.
Pressure Zone:	GW – Gainesville	Project Benefit:	Improve working conditions and efficiency by providing additional space for
Sewershed:	BR – Broad Run		construction vehicles, materials, fuel for emergency response, day-to-day
Magisterial District:	BR – Brentsville		maintenance, repair, and inspection operations. The project will also improve the flow of traffic through the property.
Project Estimate:	Order of Magnitude		
Estimate By:	RDA, Engineering and Planning Division	Source Derivation:	Engineering and Planning Division, Operations and Maintenance Division, General Conditions Facility Assessment, 2009; Managed by the Project Management Office.

PROJECT FUNDING



PROJECT PICTURE

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
629	1500	4500	6500	3533	0	0	16662

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	50%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	50%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	Facilities Renewals and Upgrades	Project Description:	Space improvements to accommodate staff needs at the Spittle Building and for improvements and modifications at other facilities owned by the SA.
CIP Number:	MISC-103		
JDE Number(s):	24NWCU0002, 74NGWH0001, 24NSCU0102	Project Benefit:	This project will improve the functionality of SA facilities by providing additional space for the expansion of staff, change of functions at facilities, reduce energy
Location:	County Wide		costs, and ensure a safe and comfortable work environment for SA staff.
Pressure Zone:	Multiple	Source Derivation:	Engineering and Planning Division; Managed by the Operations and Maintenance
Sewershed:	Multiple		Division.
Magisterial District:	Multiple		
Project Estimate:	Order of Magnitude		
Estimate By:	Operations and Maintenance Division		

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
159	200	200	200	200	200	200	1359

Proposed Fu	nding Sources
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
PROJECT TOTAL	100%

PI	ROJECT INFORMATION	PROJECT DESCRIPTION			
Project Name:	Administrative Office Space Expansion	Project Description:	Space planning, design and construction of additional office space to accommodate the current and future space needs of the SA. This project will		
CIP Number:	MISC-112		recommend potential location for expansions.		
JDE Number(s):	12NSCH0009, 14NSCH0009	Project Benefit:	This project shall improve the functionality of SA facilities by providing additional		
Location:	TBD		space for staff, reduce energy costs, and ensure a safe and comfortable work		
Pressure Zone:	TBD		environment for SA staff.		
Sewershed:	TBD	Source Derivation:	Engineering and Planning Division; Managed by the Engineering and Planning		
Magisterial District:	TBD		Division and Project Management Office.		
Project Estimate:	PER				
Estimate By:	Engineering and Planning Division				

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
951	135	600	500	3500	6000	9100	20786

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	50%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	50%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

P	ROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	System Wide Master Plan	Project Description:	Preparation of a comprehensive, system-wide master plan that includes sewer collection, wastewater treatment, water distribution, and water source and
CIP Number:	MISC-114		supply options. This study covers the evaluation of existing systems and shall
JDE Number(s):	22NCWE0101		provide recommendations on system improvements necessary to meet future projected demands and regulatory requirements. This project accounts for the
Location:	County Wide		capitalized portion of the Master Plan cost with the balance covered in the
Pressure Zone:	Multiple		operational budget. Also included is an addendum to evaluate changes to the PWC Comprehensive Plan in December 2022.
Sewershed:	Multiple		
Magisterial District:	Multiple	Project Benefit:	The goal of this study is to establish long range utility needs in order to maintain service levels to existing customers and to plan for meeting future growth and
Project Estimate:	Contract Award		demand.
Estimate By:	Engineering and Planning Division	Source Derivation:	Engineering and Planning Division, Environmental Services and Water Reclamation Division; Managed by the Engineering and Planning Division and Project Management Office.

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
600	185	0	0	0	250	0	1035

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	100%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	-				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

P	PROJECT INFORMATION		PROJECT DESCRIPTION
Project Name:	English Gardens Property Building & Site Improvements	Project Description:	Design and construction of a new centralized auxiliary and operations building with associated infrastructure, plus the demolition of an existing onsite building.
CIP Number:	MISC-116	Project Benefit:	This project will improve the functionality of SA facilities by providing additional
JDE Number(s):	12NCWH0101, 14NCWH0101		and redefined space for staff and ensure a safe and comfortable work environment for SA staff.
Location:	14195 Dumfries Rd.		
Pressure Zone:	OR – Oak Ridge	Source Derivation:	Engineering and Planning Division; Managed by the Project Management Office.
Sewershed:	PC – Powells Creek		
Magisterial District:	CO – Coles		
Project Estimate:	Order of Magnitude		
Estimate By:	Engineering and Planning Division		

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
88	850	1850	8000	12027	29054	0	51869

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	50%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	50%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

P	ROJECT INFORMATION				PROJECT D	ESCRIPTIO	N				
Project Name: CIP Number:	Studies and PER's – Organization Wide MISC-117	Project Description:		This project provides the funding for studies and preliminary engineering repor (PER's) organization-wide to evaluate existing business systems or facility asset and provide recommendations on improvements, upgrades, or replacements a necessary to increase efficiencies, improve employee safety, meet future							
JDE Number(s):	Multiple			projected dem							
Location:	County Wide	Project Be	nefit:	The goal of the	se studies is t	o identify alte	ernatives for	improvements	to move in		
Pressure Zone:	Multiple	, ,		detailed design	n to maintair	service leve					
Sewershed:	Multiple				meeting future growth and demand.						
Magisterial District:	Multiple										
Project Estimate:	oject Estimate: Order of Magnitude		rivation:	Engineering an	d Planning Di	vision					
	PROJECT PICTURE				PROJECT	FUNDING					
Catt	harpin	PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL		
Gaine	- hu	0	700	700	700	700	700	0	3500		
	Bristow				Proposed Fu	nding Sources					
	Nekonville	Ехр	. Fund (02) – A	Availability Fees			50%	,)			
	woodbridge		-	8) – Availability Fe	es	-					
Dale City Triangle			l. Fund (04) –			50%					
		Oth		Development Cont	ributions		-				
			PROJECT TOTAL				100%				

PI	ROJECT INFORMATION	PROJECT DESCRIPTION			
Project Name:	Nottoway Tank Site Development	Project Description:	Site preparation and construction to accommodate material storage on the Nottoway Tank site property. This project includes general site and security		
CIP Number:	MISC-118		improvements.		
JDE Number(s):	22WLRT0201, 24WLRT0201	Project Benefit:	Improve working efficiency by providing additional operational space for stored		
Location:	2011 Horner Road, Woodbridge	,	materials for emergency response, day-to-day maintenance, repair, and general		
Pressure Zone:	Lake Ridge		east end operations.		
Sewershed:	Belmont				
Magisterial District:	WD - Woodbridge	Source Derivation:	Operations and Maintenance Division; Managed by the Project Management Office.		
Project Estimate:	Order of Magnitude				
Estimate By:	Project Management Office				

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	200	600	0	0	0	0	800

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	50%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	50%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

OJECT INFORMATION	PROJECT DESCRIPTION			
Vehicle Replacement Program	Project Description:	The SA operates and maintains a fleet of vehicles in order to provide service to its		
MISC-200		customers. In addition, the SA evaluates each vehicle annually and retains vehicles that are still in good condition regardless of the replacement criteria. Vehicles		
Multiple		identified for replacement over the next two years include tandem-axle flat beds, small high-side dump trucks, closed-circuit television vehicles, hydro-excavator		
County Wide		trucks, sport utility vehicles, and various equipped full and mid-sized pick-up		
Multiple		trucks.		
Multiple	Project Benefit:	This program provides guidelines for vehicle replacement that balances safety,		
Multiple		reliability, capital costs, and maintenance costs.		
Order of Magnitude	Source Derivation:	Operations and Maintenance Division; Managed by the Operations and		
Operations and Maintenance Division		Maintenance Division.		
	Vehicle Replacement Program MISC-200 Multiple County Wide Multiple Multiple Multiple Order of Magnitude	Vehicle Replacement ProgramProject Description:MISC-200		

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	1983	1075	1400	1400	1665	0	7523

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION	PROJECT DESCRIPTION					
Project Name:	Mechanical Equipment Replacement Program	Project Description:	Replacement of single equipment unit items with a cost value of \$5,000 or greater required for SA operations to perform duties and fulfill customer requirements.				
CIP Number:	MISC-201		These items include but are not limited to pumping units, channel grinders, HVAC units, variable frequency drives, and reduced voltage solid state starters.				
JDE Number(s):	Multiple	Project Benefit:	Reaching performance targets, compliance with regulatory requirements,				
Location:	County Wide		maximization of the return on capital, and increased stakeholder value.				
Pressure Zone:	Multiple	Source Derivation:	Operations and Maintenance Division; Managed by the Operations and				
Sewershed:	Multiple		Maintenance Division.				
Magisterial District:	Multiple						
Project Estimate:	Order of Magnitude						
Estimate By:	Operations and Maintenance Division						



ſ	PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
I	0	2210	3176	2866	2489	2670	0	13411

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

	PWCSA CAPIT	AL IIVIPROVE		RUJECT DATA						
P	ROJECT INFORMATION				PROJECT D	ESCRIPTIO	V			
Project Name: CIP Number: IDE Number(s): Location:	Computer and Other Replacement Program MISC-202 Multiple County Wide	Project Desc	ription:	Purchase or re with a cost va duties, fulfill c These items ir phone systems	alue of \$5,00 sustomer requinclude softwa	0 or greater uirements an are, server ar	required for d enhance tl d network h	SA operation ne cybersecuri ardware, netv	s to perfor ity program	
Pressure Zone: Sewershed:	Multiple Multiple	Project Bene	fit:	Replaces hardware and other miscellaneous capital equipment that approaching the end of its service life within the next 15 months.						
Magisterial District: Project Estimate:	Multiple Order of Magnitude	Source Deriv	ation:	Management a the Informatio			nation Techn	ology Division;	Managed	
Estimate By:	Management and Budget Division									
	PROJECT PICTURE				PROJECT	FUNDING				
Cati	narpin	PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL	
Gaine	· • 22	0	1200	1200	1550	1550	600	0	6100	
	Proposed Funding Sources									
/	Exp. Fund (02) – Availability Fees				-					
	Commit	. Fund (03)	– Availability Fees	6	-					
	Dale City		nd (04) – U				100	%		
	Marine P	Other Co	Other Contrib. – Development Contributions				-			

PROJECT TOTAL

Triangle

100%

PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHE	ET
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PROJECT INFORMATION			PROJECT DESCRIPTION								
Project Name:	Major Facility Rehabilitation Program	Project Desc	ription:	Major rehabili components at							
CIP Number:	MISC-203			components at existing sewage pumping stations and water booster stations.							
JDE Number(s):	Multiple	Project Benefit:		Preserves and extends the economic life of each facility. In addition, this project improves the functionality of SA facilities by maintaining operational integrity and							
Location:	County Wide			reliability.							
Pressure Zone:	Multiple	Source Derivation:		Operations & Maintenance Division; Managed by the Project Management Offic							
Sewershed:	Multiple	Source Berry	Source Derivation:		operations & maintenance prosion, managed by the Project management of						
Magisterial District:	Multiple										
Project Estimate:	Order of Magnitude										
Estimate By:	Project Management Office										
5		PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL		
∫ Cat	harpin	0	1260	3000	2750	2000	750	0	9760		
Gaine	1. Ale		1		Proposed Fu	nding Sources	L				
	Bristow			ailability Fees		-					
	Nokesville Dale	Commit	Fund (03) ·	– Availability Fees	5		-				
		Repl. Fund (04) – User Rates				100	%				
	Other Contrib. – Development Contributions				-						
	Triangle			PROJECT TOTAL				100%			

INFORMATION TECHNOLOGY PROJECTS



PROJECT INFORMATION							
Project Name:	JD Edwards Upgrade						
CIP Number:	IT-105						
JDE Number(s):	14NSCG0109						
Location:	County Wide						
Pressure Zone:	Multiple						
Sewershed:	Multiple						
Magisterial District:	Multiple						
Project Estimate:	Order of Magnitude						
Estimate By:	Information Technology Division						

PROJECT PICTURE



	PROJECT DESCRIPTION
Project Description:	As part of the SA's Organizational Strategic Plan and IT's Strategic Plan, this project involves upgrades and custom design features to the JD Edwards system.
Project Benefit:	This project will add mobile capabilities, reporting capabilities, budget forecasting, and Procure to Pay functionality.
Source Derivation:	Information Technology Division; Managed by the Information Technology Division.

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
829	0	250	250	0	0	0	1329

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	-		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	100%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

P	ROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Cayenta – CIS	Project Description:				
CIP Number:	IT-106		project involves upgrading Cayenta to Version 9 and replacing the Customer Self Service system components and deploying new customer-focused functionality.			
JDE Number(s):	14NSCG0110		, , , , , , , , , , , , , , , , , , , ,			
Location:	County Wide	Project Benefit:	This project shall improve the SA customer experience by replacing the curr bill-pay site with a modern, mobile-ready, customer portal. Additionally,			
Pressure Zone:	Multiple		project includes upgrades to the Cayenta CIS for improved system reliability and			
Sewershed:	Multiple		capabilities.			
Magisterial District:	Multiple	Source Derivation:	Information Technology Division; Managed by the Information Technology			
Project Estimate:	Order of Magnitude		Division.			
Estimate By:	Information Technology Division					

PROJECT PICTURE



PRE-FY24 POST- FY28 TOTAL FY24 FY25 FY26 FY27 FY28 402 250 0 250 200 0 0 1102

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

P	ROJECT INFORMATION	PROJECT DESCRIPTION				
Project Name:	Computerized Maintenance Management System (CMMS) Implementation	Project Description:	This project expands the implementation of Cityworks to provide inventory management for SA warehousing processes and work order management			
CIP Number:	IT-107		functionality for H.L. Mooney AWRF assets.			
JDE Number(s):	14NAAG0112	Project Benefit:	Implementation of Cityworks to manage work performed on assets at H			
Location:	County Wide		Mooney AWRF shall place maintenance performed on the SA's collection, distribution, and facility assets in a single GIS-centric business system which			
Pressure Zone:	Multiple		improves operational insights and reporting to support data-driven decision			
Sewershed:	Multiple		making.			
Magisterial District:	Multiple	Source Derivation:	Information Technology Division, Operations and Maintenance Division; Managed			
Project Estimate:	Order of Magnitude		by the Information Technology Division.			
Estimate By:	Information Technology Division					

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
532	1450	560	620	125	0	0	3287

PROJECT FUNDING

Proposed Funding Sources			
Exp. Fund (02) – Availability Fees	-		
Commit. Fund (03) – Availability Fees	-		
Repl. Fund (04) – User Rates	100%		
Other Contrib. – Development Contributions	-		
PROJECT TOTAL	100%		

PROJECT INFORMATION			PROJECT DESCRIPTION			
Project Name:	Document Management System Implementation	Project Description:	As part of the SA's Organizational Strategic Plan and IT's Strategic Plan, this project will develop a SA-wide central document repository.			
CIP Number:	IT-110	Project Benefit:	A document management system shall provide a governed, central repository to store the organization's documents and improve document retrieval			
JDE Number(s):	Not Assigned					
Location:	County Wide		Additionally, the Document Management System will provide improved cont of document versioning and collaboration.			
Pressure Zone:	Multiple					
Sewershed:	Multiple	Source Derivation:	Information Technology Division; Managed by the Information Technology Division.			
Magisterial District:	Multiple					
Project Estimate:	Order of Magnitude					
Estimate By:	Information Technology Division					



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
200	1560	420	275	125	0	0	2580

PROJECT FUNDING

Proposed Funding Sources				
Exp. Fund (02) – Availability Fees	-			
Commit. Fund (03) – Availability Fees	-			
Repl. Fund (04) – User Rates	100%			
Other Contrib. – Development Contributions	-			
PROJECT TOTAL	100%			

PROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Vertical Asset Data Development	Project Description:	Development of a GIS vertical asset register in support of work-order management		
CIP Number:	IT-117		(CMMS) and Asset Management Analytics. This project includes discovery, planning, database development, and data capture.		
JDE Number(s):	14NAAG0240				
Location:	County Wide	Project Benefit:	GIS vertical asset data shall enable effective use of the SA's CMMS system f assets located within the H.L. Mooney AWRF and WWF facilities. Additional		
Pressure Zone:	Multiple		vertical asset data shall enable data-driven asset management planning.		
Sewershed:	Multiple	Source Derivation:	Data Management Division; Managed by the Data Management Division.		
Magisterial District:	Multiple				
Project Estimate:	Order of Magnitude				
Estimate By:	Data Management Division				

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
248	365	50	0	0	0	0	663

PROJECT FUNDING

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

CIP Number:IT-118Boomi in alignment with the SA technology strategy and reduces total cost ownership.JDE Number(s):14NAAG0230Location:County WidePressure Zone:MultipleSewershed:MultipleMagisterial District:MultipleProject Estimate:Order of Magnitude	PF	OJECT INFORMATION	PROJECT DESCRIPTION			
CIP Number:IT-118ownership.JDE Number(s):14NAAG0230Location:County WidePressure Zone:MultipleSewershed:MultipleMultipleMagisterial District:MultipleProject Estimate:Order of Magnitude	Project Name:	System Integration	Project Description:	This project modernizes existing legacy, point-to-point system integrations to Dell		
Location:County WideProject Benefit:Successful implementation of mature analytics that support data-driven decise making relies on the ability to efficiently access critical data stored in multi business systems across the enterprise. This project shall provide a scalad consistent approach to integrating business systems, automate man workflows, and improve analytics and reporting capabilities.Nagisterial District:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.	CIP Number:	IT-118				
Location:County Widemaking relies on the ability to efficiently access critical data stored in multi business systems across the enterprise. This project shall provide a scalal consistent approach to integrating business systems, automate man workflows, and improve analytics and reporting capabilities.Project Estimate:Order of MagnitudeSource Derivation:Data Management Division; Managed by the Data Management Division.	JDE Number(s):	14NAAG0230				
Sewershed:Multipleconsistent approach to integrating business systems, automate man workflows, and improve analytics and reporting capabilities.Magisterial District:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeSource Derivation:Data Management Division; Managed by the Data Management Division.	Location:	County Wide	Project Benefit:	Successful implementation of mature analytics that support data-driven decis making relies on the ability to efficiently access critical data stored in multi		
Sewershed:Multipleworkflows, and improve analytics and reporting capabilities.Magisterial District:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeSource Derivation:Data Management Division; Managed by the Data Management Division.	Pressure Zone:	Multiple		business systems across the enterprise. This project shall provide a scalable,		
Project Estimate: Order of Magnitude Source Derivation: Data Management Division; Managed by the Data Management Division.	Sewershed:	Multiple		consistent approach to integrating business systems, automate manual workflows, and improve analytics and reporting capabilities.		
Project Estimate: Order of Magnitude	Magisterial District:	Multiple				
Estimate By: Data Management Division	Project Estimate:	Order of Magnitude	Source Derivation:	Data Management Division; Managed by the Data Management Division.		
	Estimate By:	Data Management Division				

PRE-FY24

1338

75

150

PROJECT PICTURE



FY24 FY25 FY26 FY27 FY28 POST- FY28 TOTAL

37

0

0

PROJECT FUNDING

75

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

1675

CIP Number:IT-121data-driven asset management planning.JDE Number(s):14NAAG0280Project Benefit:Enterprise-wide asset management analytics affords the SA the ability to work from an organization-wide perspective, understand cross-div dependencies and priorities, and develop data-driven asset management planning.Location:County WideProject Benefit:Enterprise-wide asset management analytics affords the SA the ability to work from an organization-wide perspective, understand cross-div dependencies and priorities, and develop data-driven asset management planning.Pressure Zone:MultipleSewershed:MultipleMagisterial District:MultipleProject Estimate:Order of Magnitude	PF	ROJECT INFORMATION	PROJECT DESCRIPTION			
CIP Number:IT-121JDE Number(s):14NAAG0280Location:County WidePressure Zone:MultipleSewershed:MultipleMultipleSource Derivation:Project Estimate:Order of Magnitude	Project Name:	Asset Management Analytics	Project Description:	Development of the frameworks, standards, processes, and tools necessary		
Location:County Widework from an organization-wide perspective, understand cross-divide dependencies and priorities, and develop data-driven asset management priorities and generation:work from an organization-wide perspective, understand cross-divide dependencies and priorities, and develop data-driven asset management priorities and generation:Work from an organization-wide perspective, understand cross-divide dependencies and priorities, and develop data-driven asset management priorities and generation:Data Management Division; Managed by the Data Management Division.Sewershed:MultipleData Management Division; Managed by the Data Management Division.Magisterial District:MultipleData Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeOrder of Magnitude	CIP Number:	IT-121		data-driven asset management planning.		
Location:County Widedependencies and priorities, and develop data-driven asset management pPressure Zone:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.Sewershed:MultipleMultipleData Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeOrder of MagnitudeOther Magnitude	JDE Number(s):	14NAAG0280	Project Benefit:	Enterprise-wide asset management analytics affords the SA the ability to plan		
Pressure Zone:MultipleSewershed:MultipleMagisterial District:MultipleOrder of MagnitudeEndert	Location:	t ion: County Wide		work from an organization-wide perspective, understand cross-divisi- dependencies and priorities, and develop data-driven asset management plar		
Sewershed: Multiple Magisterial District: Multiple Project Estimate: Order of Magnitude	Pressure Zone:	Multiple				
Project Estimate: Order of Magnitude	Sewershed:	Multiple	Source Derivation:	Data Management Division; Managed by the Data Management Division.		
	Magisterial District:	Multiple				
Estimate By: Data Management Division	Project Estimate:	Order of Magnitude				
	Estimate By:	Data Management Division				

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
222	215	600	175	0	0	0	1212

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION	PROJECT DESCRIPTION		
Project Name:	Project Management Information System (PMIS) Implementation	Project Description:	Continue implementation of a Project Management Information System (PMIS) to automate procurement and contracts workflows, document and project	
CIP Number:	CIP Number: IT-122		management, and financial reporting associated with construction related projects. Work performed under this project shall expand system functionality	
JDE Number(s):	14NAAG0290		delivered as part of PMIS Implementation Phase I.	
Location:	County Wide	Project Benefit:	A PMIS shall provide a systematic approach to managing projects across all phases	
Pressure Zone:	Multiple	-	of the project life cycle from planning to project close-out. A PMIS will also afford	
Sewershed:	Multiple		the SA the ability to manage project documentation, schedules, and costs more efficiently.	
Magisterial District:	Multiple			
Project Estimate:	Order of Magnitude	Source Derivation:	Information Technology Division; Managed by the Information Technology Division.	
Estimate By:	Information Technology Division			



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
1474	175	475	127	64	0	0	2315

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	30%				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	70%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PI	ROJECT INFORMATION	PROJECT DESCRIPTION			
Project Name:	Network Security Upgrades	Project Description:	As part of PWCSA's Organizational Strategic Plan and IT's Strategic Plan, this		
CIP Number:	IT-125		project will enhance the operational technology and IT network cybersecurity by deploying specific security technology to improve resiliency and defenses.		
JDE Number(s):	14NSCG0401				
Location:	County Wide	Project Benefit:	This project will implement technology to improve cybersecurity defenses and a additional resiliency to the current solution.		
Pressure Zone:	Multiple				
Sewershed:	Multiple	Source Derivation:	Information Technology Division; Managed by the Information Technology		
Magisterial District:	Multiple		Division.		
Project Estimate:	Order of Magnitude				
Estimate By:	Information Technology Division				

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	150	150	100	100	0	0	500

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PR	OJECT INFORMATION	PROJECT DESCRIPTION				
Project Name:	SCADA System Upgrade	Project Description:	As part of the SA's Organizational Strategic Plan and IT's Strategic Plan, this project			
CIP Number:	IT-126		involves planning, design, deployment, and owner services for the replacement of the SA's legacy SCADA system.			
JDE Number(s):	14NCWC0101					
Location:	County Wide	Project Benefit:	This project replaces obsolete SCADA equipment with current technolo improved SCADA system reliability and security, automation of manual pro			
Pressure Zone:	Multiple		and real-time monitoring and reporting.			
Sewershed:	Multiple	Source Derivation:	Information Technology Division; Managed by the Project Management Office.			
Magisterial District:	Multiple					
Project Estimate:	Order of Magnitude					
Estimate By:	Information Technology Division					

PRE-FY24

2161

4838

5283

PROJECT PICTURE



FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL

5262

0

0

5068

PROJECT FUNDING

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

FY24 – FY28

22612

PI	ROJECT INFORMATION		PROJECT DESCRIPTION			
Project Name:	Web Content Management System Migration	Project Description:	This project shall migrate content on the SA's three complex websites (pwcsa.org, h2olab.org, and the "SA Splash" Intranet) to the upgraded Content Management			
CIP Number:	IT-128		System (CMS) and modernize design of the public-facing website.			
JDE Number(s):	Multiple	Project Benefit:	Migrating content on the SA's three websites to the newer version of the CMS is			
Location:	County Wide		imperative as technical service of the current version of the software will b discontinued in November 2022. Websites running on older versions of the			
Pressure Zone:	Multiple		platform may be flagged as insecure during third-party scans. The newer version			
Sewershed:	Multiple		of CMS will strengthen the security of the websites and enhance front-end users' experiences.			
Magisterial District:	Multiple					
Project Estimate:	Order of Magnitude	Source Derivation:	Information Technology Division; Managed by the Information Technology Division.			
Estimate By:	Information Technology Division					



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
166	209	0	0	0	0	0	375

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				

PROJECT INFORMATION			PROJECT DESCRIPTION			
Project Name:	Enterprise Resource Planning	Project Description:	This project will provide an integrated, modern financial information system,			
CIP Number:	IT-129		Customer Billing Information System and its related business software stack.			
JDE Number(s):	Not Assigned					
Location:	County Wide	Project Benefit:	The new integrated Financial and Customer Service Systems will provide service to both internal users and ratepayers, comply with the National Ins of Standards and Technology Guidelines and improve data security.			
Pressure Zone:	Multiple					
Sewershed:	Multiple	Source Derivation:	Information Technology Division; Managed by the Information Technology			
Magisterial District:	Multiple		Division.			
Project Estimate:	Order of Magnitude					
Estimate By:	Information Technology Division					

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	0	2500	5000	3500	0	0	11000

PROJECT FUNDING

Proposed Funding Sources					
Exp. Fund (02) – Availability Fees	-				
Commit. Fund (03) – Availability Fees	-				
Repl. Fund (04) – User Rates	100%				
Other Contrib. – Development Contributions	-				
PROJECT TOTAL	100%				





PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	Occoquan River Crossing	Project Description:	Design and construction of dual 700-foot long 42-inch steel water mains within a	
CIP Number:	REG-1		400-foot long tunnel, 2,400 feet of 36-inch water main for redundancy to an existing transmission main, and an additional finished water pump at Fairfax	
JDE Number(s):	22WFWM8104, 24WFWM8104		Water's Griffith Water Treatment Plant to facilitate a new subaqueous crossing	
Location:	Eastern PWC, Occoquan River		of the Occoquan River. This project also includes the replacement of a deficient segment of existing 24-inch water main and a new interconnection near Horner	
Pressure Zone:	Eastern Water System		Road along the transmission main corridor in Prince William County. This project	
Sewershed:	Multiple		will connect transmission facilities on either side of the river that supply the SA's Eastern Water System and three proposed Eastern Area control valve vaults.	
Magisterial District:	Multiple			
Project Estimate:	OPCC	Project Benefit:	This new transmission main will replace the aging, pressure restricted 30-inch concrete pipe that has been in service for over 60 years. This transmission main	
Estimate By:	Fairfax Water and the Engineering and Planning Division		shall also increase capacity and enhance system reliability and availability for SA customers in the Eastern Water System.	
		Source Derivation:	Engineering and Planning Division; Managed by Fairfax Water and coordinated at the Service Authority by the Project Management Office.	

PROJECT PICTURE



PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
6617	12566	12566	0	0	0	0	31749

PROJECT FUNDING

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	30%	
Commit. Fund (03) – Availability Fees	-	
Repl. Fund (04) – User Rates	70%	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	

PROJECT INFORMATION		PROJECT DESCRIPTION		
Project Name:	UOSA Expansion – Project 60	Project Description:	This project is for the SA's portion of costs associated with the planned	
CIP Number:	REG-2		expansion of sewage treatment capacity from 54 MGD to 60 MGD at the UOSA AWRF plant in Fairfax County. The capacity increase is based on growth	
JDE Number(s):	Not assigned		projections in conformance with the land use policies in the PWC Comprehensive	
Location:	Fairfax County		Plan prior to the December 2022 revisions. Costs cover adding secondary treatment capacity, adding sidestream ammonia treatment, and expansion of	
Pressure Zone:	Multiple		chlorination and dechlorination facilities.	
Sewershed:	Multiple	Project Benefit:	The goal of this project is to accommodate the continued increase in wastewate flows from new commercial and residential development in the areas tributa	
Magisterial District:	N/A			
Project Estimate:	Order of Magnitude		to this regional AWRF.	
Estimate By:	UOSA	Source Derivation:	UOSA Master Plan, 2020; Managed by UOSA and coordinated by the Project Management Office.	

PROJECT FUNDING

PRE-FY24	FY24	FY25	FY26	FY27	FY28	POST- FY28	TOTAL
0	0	3100	7900	24400	24400	24400	84200

Proposed Funding Sources		
Exp. Fund (02) – Availability Fees	-	
Commit. Fund (03) – Availability Fees	100%	
Repl. Fund (04) – User Rates	-	
Other Contrib. – Development Contributions	-	
PROJECT TOTAL	100%	



PROJECT PICTURE

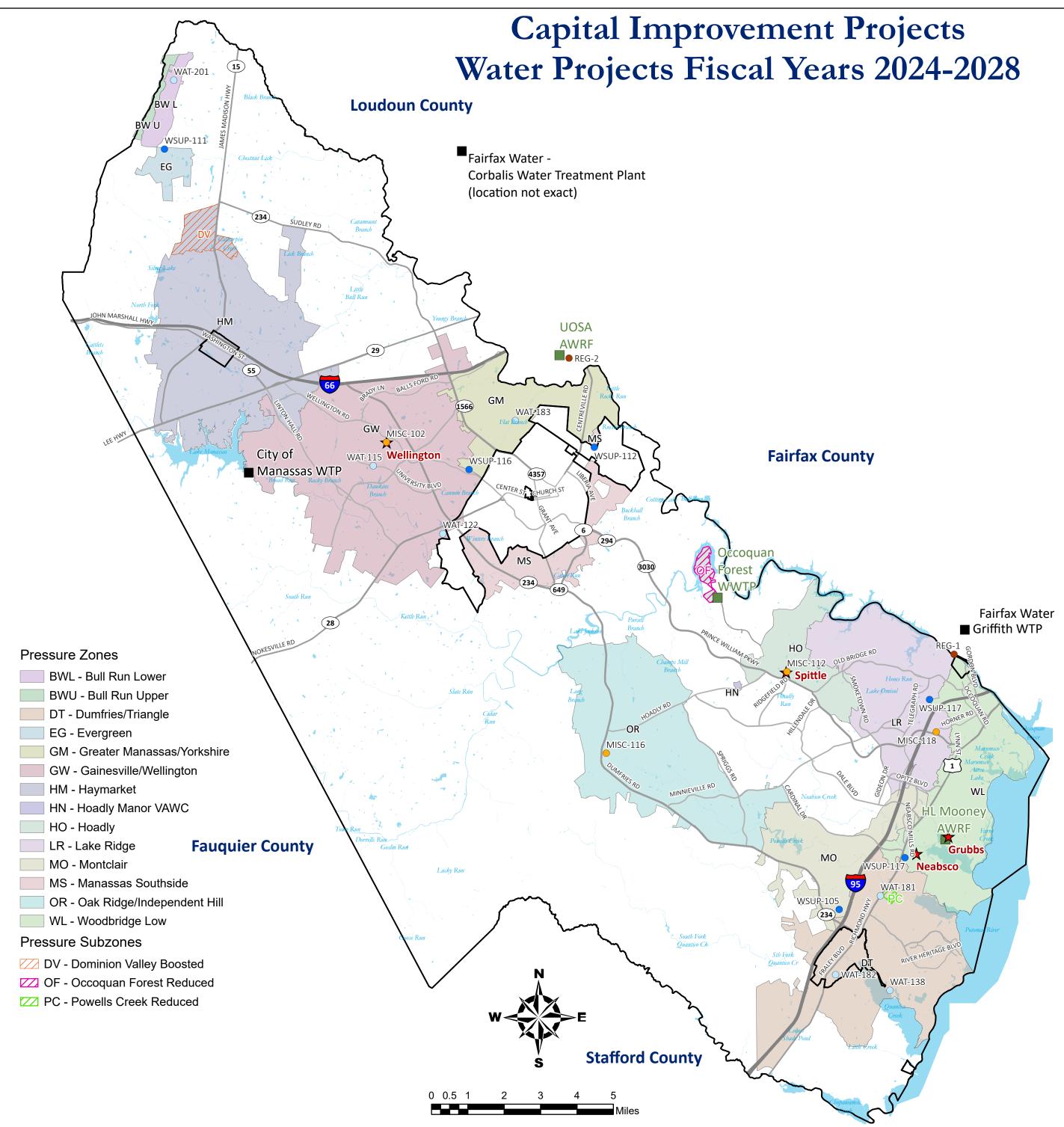
CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028





SECTION C

PROJECT MAPS





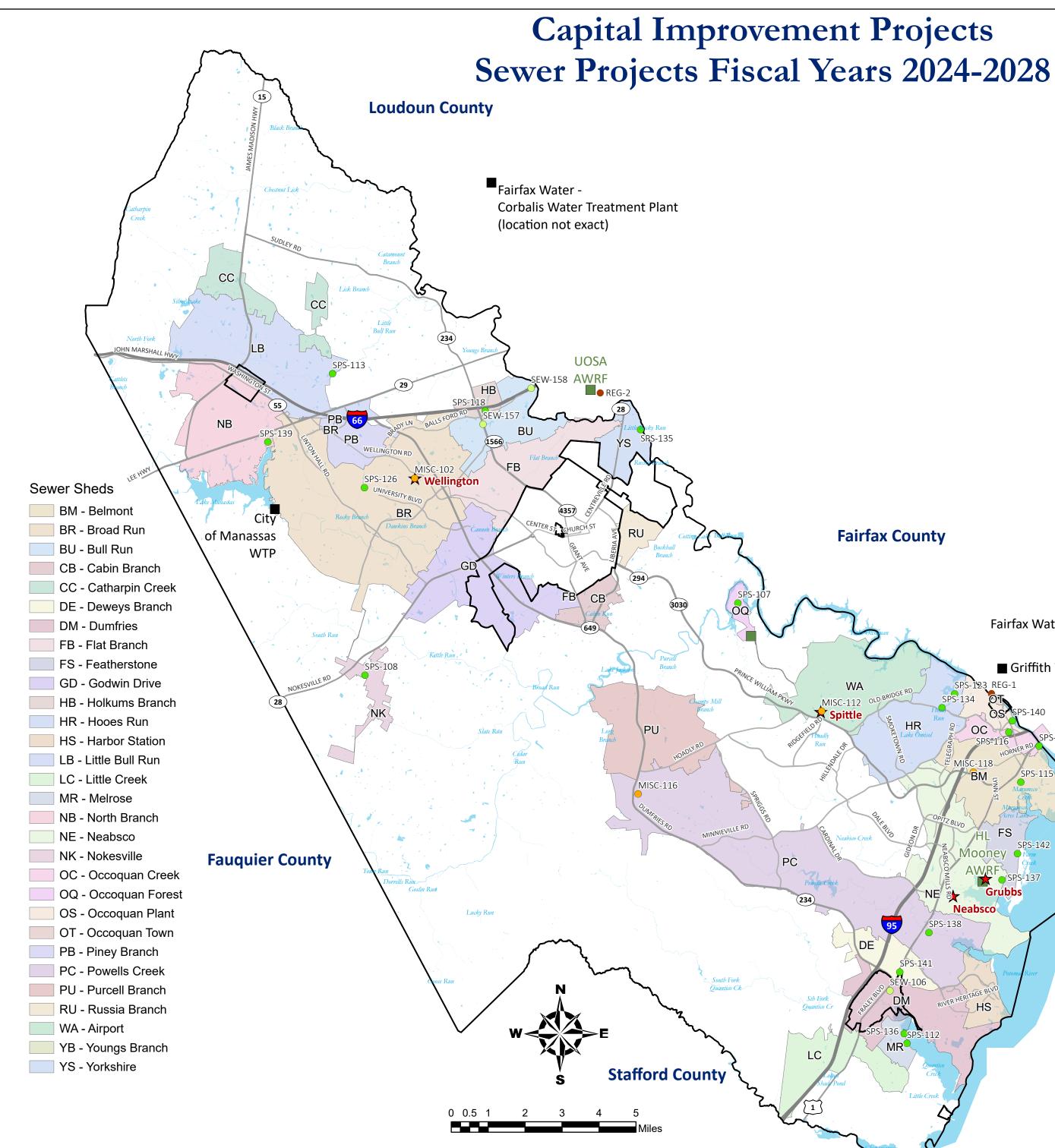
IMS)
ementation

Web Content Management System Migration IT-128

Miscellaneous Projects (MISC)

MISC-100	Water and Sewer Utility System Improvement Opportunity (USIO
MISC-101	PWCSA Water & Sewer Facility Security Enhancements
MISC-102	Wellington Road Operations Center Expansion
MISC-103	PWCSA Facilities Renewals and Upgrades
MISC-112	Administrative Office Space Expansion
MISC-114	System Wide Master Plan
MISC-116	English Gardens Property Building & Site Improvements
MISC-117	Studies and PER's - Organization Wide
MISC-118	Nottoway Tank Site Development
MISC-200	Vehicle Replacement Program
MISC-201	Mechanical Equipment Replacement Program
MISC-202	Computer and Other Replacement Program
MISC-203	Major Facility Rehabilitation Program
Water Sup	ply Projects (WSUP)
WSUP-103	Water Meter Vault Improvements
WSUP-105	Montclair/Four Seasons Water System Improvements
WSUP-111	Bull Run Mountain Well Upgrades
WSUP-112	Manassas Southside Booster Pumping Station Upgrades
WSUP-114	Capital Meter Program
WSUP-116	Unity Reed (F14) Booster Pumping Station and Discharge Main
WSUP-117	Eastern Area Pressure Reducing Valves
Vater Stora	age Projects (WST)
	Water Storage Tank Rehabilitation Program
WST-111	Tank Re-Chlorination Program
Vater Tran	smission Projects (WAT)
	Dawkins Branch Transmission Main
WAT-122	Gainesville to Manassas South Connector
WAT-138	Possum Point Road Water Main - Phase 2
WAT-181	Rt. 1 Transmission Main - Phase 1
WAT-182	Rt. 1 Transmission Main - Phase 2
WAT-183	Western Area Resiliency - Rt. 28 Bypass
WAT-200	Water Distribution Asset Replacement Program

WAT-201 Bull Run Mountain Distribution System Improvements





Fairfax County Fairfax Water -Griffith WTP 23 REG-1 SPS OS SPS-140 HR OC PS-125 MISC-118 BM SPS-11 FS Mooney SPS-142 AWRF SPS-137 Grubbs Neabsco 95 DE SPS-141 106 HS S-136 MR

Regional Ut	ility Projects (REG)
REG-1	Occoquan River Crossing
REG-2	UOSA Expansion - Project 60
Information	n Technology Projects (IT)
IT-105	JD Edwards Upgrade
IT-106	Cayenta - CIS
IT-107	Computerized Maintenance Management System (CMMS) Implementation
IT-110	Document Management System Implementation
IT-117	Vertical Asset Data Development
IT-118	System Integration
IT-121	Asset Management Analytics
IT-122	Project Management Information System (PMIS) Implementation
IT-125	Network Security Upgrades
IT-126	SCADA System Upgrade
IT-128	Web Content Management System Migration
IT-129	Enterprise Resource Planning
Miscellane	ous Projects (MISC)
MISC-100	Water and Sewer Utility System Improvement Opportunity (USIO)
MISC-101	PWCSA Water & Sewer Facility Security Enhancements
	Wellington Road Operations Center Expansion
MISC-103	PWCSA Facilities Renewals and Upgrades
MISC-112	Administrative Office Space Expansion
MISC-114	System Wide Master Plan
MISC-116	English Gardens Property Building & Site Improvements
MISC-117	Studies and PER's - Organization Wide
MISC-200	Vehicle Replacement Program
MISC-201	Mechanical Equipment Replacement Program
MISC-202	Computer and Other Replacement Program
MISC-203	Major Facility Rehabilitation Program
Sewage Pu	mping Station Projects (SPS)
SPS-100	Generator Replacement Program
SPS-107	Replace Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37
SPS-108	Nokesville Sewage Pumping Station, L20
SPS-112	Graham Park Sewage Pumping Station, L13
SPS-113	Heritage Hunt Sewage Pumping Station, L52 and Force Main
SPS-115	Belmont Sewage Pumping Station, L17 Replaement and Force Main Extension
SPS-116	Hornbaker Sewage Pumping Station, L06 and Force Main
SPS-118	Koon's Sewage Pumping Station, L28
SPS-123	Spinnaker Court Sewage Pumping Station, LO2 and Force Main
SPS-125	Occoquan Creek Sewage Pumping Station, L04 and Gravity Main
SPS-126	Piney Branch Sewage Pumping Station, L26 and Gravity Main
SPS-134	Hooes Run Sewage Pumping Station, L01 and Force Main
SPS-135	Yorkshire Sewage Pumping Station, L30 and Force Main
SPS-136	Melrose Sewage Pumping Station, L10
SPS-137	Dawson Landing Sewage Pumping Station, L51
SPS-138	Powell's Creek Sewage Pumping Station, L08 and Force Main
SPS-139	North Fork Sewage Pumping Statin, L39
SPS-140	Occoquan Plant Sewage Pumping Station, L14
SPS-141	Dewey's Creek Sewage Pumping Station, L09
SPS-142	Featherstone Sewage Pumping Station, L16 and Force Main
Sewage Co	llection Projects (SEW)
SEW-106	Dumfries Force Main and Water Main
SEW-157	Sudley Road Sewer Main
SEW-158	I-66 Rest Area Sewer Main
SEW-200	Sewer Collection Rehabilitation & Replacement Program
Water Rec	lamation Facilities Projects (WRF)
WRF-123	Ongoing Renewal and Replacement
WRF-126	Dynamic Hydraulic Model and Instrumentation
WRF-131	FBI and Solids Building Repairs and Modifications
	Bioreactor Basin Improvements
WRF-138	Facility Wide Improvements - Design-Build Project